

ANEXA 4

REFERAT

**al Consiliului Studiilor Universitare de Doctorat al UVT privind neaprobarea
afilierii la Școala doctorală de Științe Exacte și Științe ale Naturii
a domnului Conf. univ. dr. Caizer Costică**

CSUD, reunit la data de 09.07.2025 a analizat solicitarea de afiliere a candidatului Conf. univ. dr. Caizer Costică, domeniul de știință Fizică, și a decis NEAPROBAREA AFILIERII la Școala doctorală de Științe Exacte și Științe ale Naturii.

Motivare (numai pentru cazul neaprobării deciziei de la nivel de CSUD):

CSUD respinge solicitarea de afilire a conf. univ. dr. habil Caizer Costică în baza motivării transmise de Școala doctorală de Științe Exacte și Științe ale Naturii:

1. În urma analizei dosarului de afiliere, membrii Consiliului școlii doctorale de Științe Exacte și Științe ale Naturii (SDSESN) au constatat că domnul conf. univ. dr. habil Caizer Costică îndeplinește standardele minimale din regulamentul de afiliere la domeniul Fizică
2. Consiliul SDSESN are obligația să vegheze ca toate domeniile din cadrul său să îndeplinească standardele și indicatorii de performanță utilizați în acreditarea și evaluarea periodică a domeniilor de studii universitare de doctorat. În acest sens, Consiliul SDSESN, în urma analizei structurii de personal privind coordonatorii de doctorat de la SDSESN din domeniul Fizică (7 coordonatori interni titulari UVT și 7 coordonatori externi) și a faptului că dl. Conf. univ. dr. habil. Caizer Costică va împlini vârsta de pensionare în luna august 2025, se constată că se va crea un dezechilibru în raportul coordonatori interni/coordonatori externi în cadrul domeniului Fizică. Astfel, indicatorul „A.3.1.2. Cel puțin 50% din conducătorii de doctorat din domeniul de doctorat evaluat sunt titulari în cadrul IOSUD, angajați cu încheierea unui contract de muncă pe perioadă nedeterminată” din Ordinul publicat în MO, partea I, 4 nr. 414/20.IV.2021, nu va fi îndeplinit și în consecință este pusă în pericol re acreditarea domeniului Fizică, preconizată pentru anul 2026.

În conformitate cu **Art. 7.** din Procedura cadru de afiliere sau dezafilieră în cadrul IOSUD-UVT: *...în luarea deciziei de afiliere, se va avea în vedere astfel încât deciziile luate să nu afecteze pe termen scurt sau mediu gradul de îndeplinire a criteriilor solicitate de agențiile de asigurare a calității responsabile cu acreditarea sau menținerea acreditării pentru domeniul de știință vizat prin cererea de afiliere.*

Prin urmare, CSUD aprobă decizia Consiliului SDSESN de a nu accepta afilierea de noi membri care, în anul universitar 2025-2026, dovedesc faptul că vor avea un contract de muncă pe perioadă nedeterminată cu UVT sau de noi membri interni care în perioada următoare își vor pierde statutul de a avea un contract de muncă pe perioadă nedeterminată (datorită pensionării pentru limita de vârstă).

Director CSUD

Prof. univ. dr. Florin-Alin Sava



Aprobat prin HS nr. 37 din 17.07.2025

ANEXA 3



REFERAT

**al Consiliului Școlii Doctorale de Științe exacte și Științele naturii
privind avizarea / neavizarea afilierii la Școala Doctorală de Științe exacte și Științele naturii
a domnului conf. univ. dr. habil CAIZER Costică**

Consiliul Școlii Doctorale de Științe exacte și Științele naturii, reunit la data de 02.07.2025, a analizat dosarul de afiliere la Școala Doctorală de Științe exacte și Științele naturii din cadrul IOSUD – UVT, pentru domeniul Fizică, depus de către candidatul conf. univ. dr. habil. Caizer Costică, a votat în unanimitate și a decis NEAVIZAREA afilierii acestuia datorită imposibilității îndeplinirii indicatorilor de calitate ARACIS cu privire la menținerea acreditării domeniului Fizică din cadrul Școlii Doctorale de Științe exacte și Științele naturii.

Motivare:

1. Membrii Consiliului Școlii Doctorale de Științe exacte și Științele naturii (SESNSN), în urma analizei dosarului au constatat că domnul conf. dr. habil. Caizer Costică îndeplinește standardele minimale din Regulamentul de afiliere în domeniul Fizică.
2. Consiliul SDSESNSN are obligația să vegheze ca toate domeniile din cadrul său să îndeplinească standardele și indicatorii de performanță utilizați în acreditarea și evaluarea periodică a domeniilor de studii universitare de doctorat. În acest sens, Consiliul SDSESNSN, în urma analizei structurii de personal privind coordonatorii de doctorat de la SDSESNSN din domeniul Fizică (7 coordonatori interni titulari UVT și 7 coordonatori externi) și a faptului că dl. Conf. univ. dr. habil. Caizer Costică va împlini vârsta de pensionare în luna august 2025, se constată că se va crea un dezechilibru în raportul coordonatori interni/coordonatori externi în cadrul domeniului Fizică. Astfel, indicatorul „A.3.1.2. Cel puțin 50% din conducătorii de doctorat din domeniul de doctorat evaluat sunt titulari în cadrul IOSUD, angajați cu încheierea unui contract de muncă pe perioadă

nedeterminată” din Ordinul publicat în MO, partea I, 4 nr. 414/20.IV.2021, nu va fi îndeplinit și în consecință este pusă în pericol reacreditarea domeniului Fizică, preconizată pentru anul 2026.

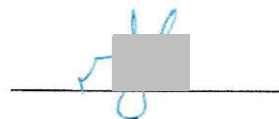
În conformitate cu **Art. 7.** din Procedura cadru de afiliere sau dezafilieră în cadrul IOSUD-UVT:

...în luarea deciziei de afiliere, se va avea în vedere astfel încât deciziile luate să nu afecteze pe termen scurt sau mediu gradul de îndeplinire a criteriilor solicitate de agențiile de asigurare a calității responsabile cu acreditarea sau menținerea acreditării pentru domeniul de știință vizat prin cererea de afiliere.

Astfel, SDSESN nu poate accepta, afilierea de noi membri externi care nu au un contract de muncă pe perioadă nedeterminată cu UVT sau noi membri interni care în perioada următoare vor pierde statutul de a avea un contract de muncă pe perioadă nedeterminată (datorită pensionării pentru limita de vârstă).

Consiliul Școlii Doctorale de Științe exacte și Științele naturii:

Director Școală Doctorală: Prof. univ. dr. habil. Mihail Lungu



Membri:

Prof. univ. dr. habil. Marius Paulescu

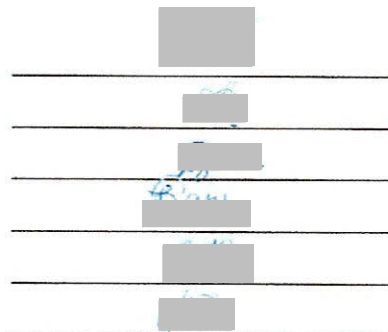
Prof. univ. dr. habil. Gabriela Vlase

Prof. univ. dr. habil. Daniela Zaharie

Prof. univ. dr. habil. Adina Luminița Sasu

Prof. univ. dr. habil. Remus Crețan

Prof. univ. dr. habil. Lucian Pârvulescu



Aprobat prin HS nr. 37 din 17.07.2025

ANEXA 1

APROBAT,
Director Școală Doctorală,

APROBAT,
Director CSUD,

Către Conducerea Consiliului Studiilor Universitare de Doctorat din cadrul IOSUD-UVT
În atenția Domnului Director CSUD

Domnule Director,

Subsemnatul/a, _____, având funcția de _____, din cadrul _____, vă rog să binevoiți a lua în considerare afilierea mea la IOSUD-UVT, în calitate de conducător de doctorat în domeniul _____.

Menționez faptul că am obținut certificatul de abilitare și calitatea de conducător de doctorat în domeniul _____, fapt confirmat prin Ordinul ministrului nr. _____, din data de _____ pe care îl depun ca document atașat prezentei cereri.

Menționez de asemenea că momentan nu sunt afiliată în alt IOSUD și nu îndrum studenți-doctoranzi decât în IOSUD-UVT, urmând ca în cazul în care acest lucru se modifică să notific în scris IOSUD-UVT în termen de 30 de zile.

Data,

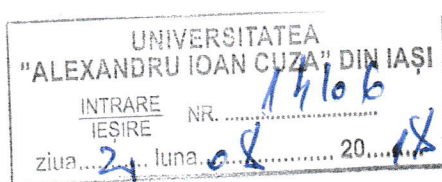
10.06.2025

Semnătura,

Aprobat prin HS nr. 37 din 17.07.2025



MINISTERUL EDUCAȚIEI NAȚIONALE



CABINET MINISTRU

ORDIN

privind

acordarea atestatului de abilitare

În temeiul prevederilor art. 166, art. 167 și ale art. 300 din Legea educației naționale nr. 1/2011, cu modificările și completările ulterioare,

În temeiul prevederilor Legii nr. 288/2004 privind organizarea studiilor universitare, cu modificările și completările ulterioare,

În baza prevederilor Hotărârii Guvernului nr. 681/2011 privind aprobarea Codului studiilor universitare de doctorat,

În baza OMECS nr. 3121/2015 privind organizarea și desfășurarea procesului de obținere a atestatului de abilitare,

În baza procesului verbal al Consiliului General al CNATDCU din data de 18.07.2018 privind acordarea atestatului de abilitare,

În temeiul Hotărârii Guvernului nr. 26/2017 privind organizarea și funcționarea Ministerului Educației Naționale, cu modificările ulterioare,

Ministrul Educației Naționale
emite prezentul ordin:

Art. 1 – Se acordă atestatul de abilitare, în domeniul de studii universitare de doctorat **Fizică**, domnului **CAIZER Costică** titular la Universitatea de Vest din Timișoara.

Art. 2 – Prezentul ordin reprezintă atestatul de abilitare.

Art. 3 – Direcția Generală Învățământ Universitar, din cadrul Ministerului Educației Naționale, comunică prezentul ordin IOSUD/IOD Universitatea "Alexandru Ioan Cuza" din Iași, unde a fost susținută teza de abilitare, cu obligația ca această instituție să îl comunice candidatului.



București,

Nr. : 4262

Data: 02.08.2018

CURRICULUM VITAE

Informații personale;

Conf. Dr. CAIZER Costică

Dr. Habil., Conducător de Doctorat – domeniul Fizică

Adresa: Universitatea de Vest din Timișoara (UVT)

Facultatea de Fizică

Departamentul Fizică

Bv. V. Pârvan, nr. 4

300223 - Timișoara

România

Tel: +40-256-592205; Fax: +40-256-592-108/310

E-mail: costica.caizer@e-uvt.ro

E-mail [REDACTED]

Web: <https://physics.uvt.ro/facultate/cadre-didactice/caizer-costica/>

<https://www.brainmap.ro/costica-caizer>

<http://www.phys.uaic.ro/index.php/scoala-doctorala/sustineri-teze-abilitare/costica-caizer-abilitare/>

<https://publons.com/researcher/4717262/costica-caizer/>

<https://scholar.google.ro/citations?user=r0TZhlVMhNQC&hl=ro>

<https://eertis.eu/errf-2200-000j-0349>

Data nașterii: [REDACTED]

Căsătorit [REDACTED]

[REDACTED];

Doi copii: [REDACTED]

[REDACTED]
[REDACTED]

Poziția curentă: Conf. Dr. Habil., Departamentul de Fizică, Universitatea de Vest Timișoara

Conducător de Doctorat - Fizică;

Director laborator: Nanomateriale Magnetice Avansate;

(I) 1) Gradul de îndeplinire a standardelor academice CNATDCU – Fizică – UVT

Activități *	Punctaje necesare pentru Conferențiar	Punctaje necesare pentru Profesor/Abilitare	Punctaje și gradul de îndeplinire realizate de Conf. Caizer Costică, comparativ cu Profesor/Abilitare
A	≥ 1	≥ 2	21,360; 1.068,00%
I	≥ 2	≥ 4	13,979; 349,48%
P	≥ 2	≥ 4	20,584; 514,60%
C	≥ 20	≥ 40	497,988; 1.244,97%
h	≥ 5	≥ 10	17; 170%
Punctaj total	≥ 5	≥ 12	66,941; 557,84%

* Activități conform Fișei personale de verificare a standardelor CNATDCU – Fizică – UVT (atașată);

A: Activitatea didactică și profesională;

I, P: Activitatea de cercetare (I: articole științifice originale *în extenso* ISI (WoS) ca autor; P: articole științifice originale *în extenso* ISI (WoS) ca prim autor sau autor corespondent);

C, h: Recunoașterea impactului activității (C: citări în reviste științifice ISI sau în cărți WoS; h: factorul Hirsch (Web of Science (WoS)));

2) Standardele academice CNATDCU – Fizică – UVT realizate în ultimii 5 ani (2020 – 2024)

Activități *	Punctaj necesar pentru Profesor univ. - pentru <u>întreaga carieră</u> -	Punctaj realizat de Conf. Caizer Costică - <u>în ultimii 5 ani</u> -
Punctaj total $T=A+(I/2+P/2)+(C/20+h/5)$	≥ 12	21,068

(II) Studii și diplome/ atestate/ certificate obținute

- ♦ MINISTERUL EDUCAȚIEI NAȚIONALE, Abilitare în Fizică (susținută la UNIVERSITATEA “AL. I. CUZA” IASI), cu “*brio*”, sept. 2015;
Atestat de Abilitare în Fizică;
- ♦ UNIVERSITATEA DE VEST TIMIȘOARA, Studii doctorale, 1995-2003;
Diplomă de Doctor în Fizică, cu cea mai înaltă distincție “SUMMA CUM LAUDE”, 2003;
- ♦ MINISTERUL EDUCAȚIEI ȘI ÎNVĂȚĂMÂNTULUI, UNIVERSITATEA CLUJ-NAPOCA, *Certificat de Definitivare în Învățământ, specializarea Fizică*, cu *media generală 10 (zece)*, sept. 1989 (prin Ordinul Ministrului Educației și Învățământului nr. 8360/1989);
- ♦ UNIVERSITATEA “AL. I. CUZA” IAȘI, FACULTATEA DE FIZICĂ, Studii de licență, 1981-1985; *Diplomă de Licență în Fizică* (echivalentă cu *Master*), iunie-1985;
- ♦ *Recomandarea pentru cercetare științifică* – Universitatea “Al. I. Cuza” Iași, Facultatea de Fizică, 1985 (dispoziție guvernamentală nr. 364822/1985);
- ♦ Colegiu Național “Spiru Haret” Tecuci, 1975-1979; *Diplomă de Bacalaureat, Șef de promoție*, 1979;

(III) Experiența profesională și locurile de muncă ocupate

- ♦ *Conferențiar*, Facultatea de Fizică, Universitatea de Vest Timișoara, 2005 - prezent;
Discipline: Proprietăți magnetice ale substanței (*curs nou*), Bioelectromagnetism (*curs nou*), Radiologie și imagistică medicală (*curs nou*), Magnetismul nanosistemelor (*curs nou*), Nanobiomagnetism (*curs nou*), Metode moderne de studiu a nanomaterialelor magnetice (*curs nou*),

Metode fizice de control nedistructiv (*curs nou*), Fizică experimentală (II) (*curs nou*), Electricitate și magnetism;

- ♦ **Lector/Șef de lucrări, Facultatea de Fizică, Universitatea de Vest din Timișoara, 2004-2005;**

Discipline: Nano-fluide magnetice (*curs nou*), Nano-biomagnetism (*curs nou*); Materiale magnetice, Electricitate și magnetism;

- ♦ **Doctorand, Universitatea de Vest Timișoara, Fizică, 1995-2003;**

- toate examenele din cadrul doctoratului promovate cu nota maximă (10);
- acordarea calificativului maxim (foarte bine) tuturor referatelor din cadrul doctoratului;
- comunicarea rezultatelor cercetării la 33 de conferințe științifice (13 internaționale);
- publicarea rezultatelor cercetării în 34 de lucrări științifice (16 în reviste ISI);
- citarea rezultatelor publicate în reviste ISI de mare prestigiu (ex.: Physical Review Letters, Physical Review B, Applied Physics Letters, Journal of Applied Physics, Journal of Physics - Condensed Matter, Nanoscale, Nanotechnology, Scripta Materialia, Journal of the American Chemical Society, Chemical Review, Chemistry of Materials etc.);

- ♦ **Asistent universitar, Facultatea de Fizică, Universitatea de Vest din Timișoara, 1991-2003;**

Discipline: Electricitate și magnetism, Proprietăți magnetice ale corpului solid și fenomene de rezonanță magnetică, Materiale magnetice, Fluide magnetice;

- introducerea a peste 20 de lucrări noi de laborator pentru studenți;

- ♦ **Profesor asociat, Liceul nr. 2 Cugir, jud. Alba, 1988-1991;**

- premiul II și premiul III la faza națională a olimpiadelor școlare, 1988-1989;
- premiul I și premiul III la faza județeană (ultima fază ținută în acel an) a olimpiadelor școlare, 1989-1990;

- ♦ **Fizician - cercetător (concepție/cercetare), I.M. Cugir, jud. Alba, Departamentul Concepție, Secția I Proiectare (1988-1991);**

Teme de cercetare: Sortarea automată prin metode magnetice a țevelor din oțel tratate termic; Defectoscopie magnetică; Conceperea unei instalații magneto-inductive cu posibilitatea măsurării și sortării automate după duritate și alte caracteristici magnetice și structurale ale țevelor din oțel tratate termic; Fluorescența de rază X: aplicație la determinarea cantitativă, rapidă, cu precizie (cu prelucrarea pe computer) a concentrației elementelor de aliere din probele de oțel turnate;

- ♦ **Profesor de Fizică, Liceul nr. 2 Botoșani, 1985-1988;**

- premiul III, Sesiunea de referate și comunicări științifice (fizică experimentală), faza județeană, 1986-1987;

(IV) Activitatea de cercetare științifică/ didactică și publicații

➤ Cercetare;

Domenii de cercetare științifică: magnetism, nanomagnetism, nanostructuri magnetice avansate (nanoparticule magnetice, nanocompozite magnetice, nanofluid magnetice), relaxare magnetică, biomagnetism, radiofrecvență, hipertermia magnetică cu aplicație în terapia cancerului;

- **coordonarea a două grupuri de cercetare științifică (unul interdisciplinar: fizică, chimie, medicină, nanobiotehnologii);**
- **înființarea unui nou laborator de cercetare: “Magnetometrie și Nanoparticule Magnetice”;**
 - cu finanțare din proiect PNCDI-II 71-026/2007-2010, obținut ca *director – coordonator parteneriat* prin competiție națională;
 - **investiție 140.000 EUR** la Facultatea de Fizică - UVT din proiectul PNCDI-II, Parteneriate D7, 71-026/2007 (2007 – 2010), obținut de mine ca **director**, prin competiție națională: **Magnetometru VSM QD-VersaLab, Quantum Design USA**; instalație performantă pentru cercetarea materialelor magnetice (diamagnetice, paramagnetice și cu ordonare magnetică), de ultimă generație: sensibilitate: 10^{-7} uem/g; +/- 30 kOe; 50 - 400 °K;
- **dezvoltarea unui laborator de cercetare: “Nanomateriale Magnetice Avansate și Hipertermie Magnetică”;**
 - cu finanțare din grant CNCSIS A 728/ 2006-2008, obținut ca *director*, prin competiție națională;
 - **investiție aprox. 53.000 EUR** la Facultatea de Fizică - UVT din proiectul PNCDI-III, Parteneriate, PN-III-P2-2.1-PED-2019-3067 (2019 – 2022), obținut de mine ca **director**, prin competiție națională: **Generator pentru Hipertermia magnetica**, echipament de ultimă generație (și singurul din lume) pentru studiul terapiei cancerului *in vitro* și *in vivo* (în mod profesional) cu bio-nanoparticule magnetice;
- **introducerea a 2 noi direcții de cercetare științifică în facultate și UVT;**
 - (1) *Proprietăți magnetice ale nanomaterialelor avansate de tip spinel, sub formă de nanoparticule ferimagnetice dispersate în diferite matrici (lichide (nanofluid), solide (nanocompozite), aer (nanopulberi));*
 - (2) *Terapia alternativă a cancerului prin Hipertermie Superparamagnetică utilizand bionanoparticule magnetice SPIONs-ciclodextrine/ lipozomi (în parteneriat);*
- **Conceperea și realizarea a 5 instalații experimentale de laborator, performante, pentru cercetare științifică;**
 - (1) instalație pentru studiul proprietăților magnetice ale nanomaterialelor magnetice avansate (nanoparticule, nanocompozite, nanofluid), cu sistem de achiziții de date și PC;
 - publicată parțial în J. Phys.-Condens. Matter 15 (2003) 765;
 - (2) instalație pentru înregistrarea susceptivității magnetice și a ciclurilor de histerezis ale nanomaterialelor magnetice avansate, la scăderea continuă a temperaturii până la 77 K, prevăzută cu sistem de achiziții de date;
 - publicată parțial în: J. Appl. Phys. 92 (2002) 2125

- (3) instalație pentru înregistrarea susceptivității magnetice inițiale și a histerezei dinamice (cu frecvența), în condiții de câmp magnetic intens, cu frecvența până la ~700 Hz;
- (4) instalație cu comandă electronică în comutație pentru studiul proceselor de magnetizare și relaxare magnetică în nanomateriale magnetice, cu durata de variație a câmpului magnetic de până la 5 nanosecunde (curent de magnetizare: 0 - 5 A);
 - publicată parțial în Annals Univ. Oradea, Physics VII (1997) 83;
- (5) generator de oscilații în trenuri de undă de putere, pe prima frecvență industrială (6,67 MHz), utilizând ferite, linia de transmisie în $\lambda/4$ și dispozitive semiconductoare în comutație;
 - publicată parțial în Annals West Univ. Timișoara, Phys. XXXII (1995) 28 și Rom. J. Phys. 46 (2001) 139;

• **Colaborări/ parteneriate:**

- **Internaționale;**

(1) **Franta:**

- UNIVERSITÉ DE PERPIGNAN, LABORATOIRE PROMES CNRS UPR8521 (Prof. Dr. Hamid Kachkachi);
- UNIVERSITÉ DE STRASBOURG, CNRS INSTITUT DE PHYSIQUE ET CHIMIE DES MATÉRIAUX DE STRASBOURG (Dr. Sylvie Begin-Colin);
- UNIVERSITY CLAUDE BERNARD LYON-1, CNRS (Dr. Abdelhamid Elaissari);

(2) **Belgia:** UNIVERSITÉ DE MONS, GENERAL ORGANIC AND BIOMEDICAL CHEMISTRY DEPART., CENTER FOR MICROSCOPY AND MOLECULAR IMAGING (CMMI) (Dr. Sophie Laurent);

(3) **Germania:** FH AACHEN UNIVERSITY OF APPLIED SCIENCES, HELMHOLTZ INSTITUTE, DEPARTMENT OF MEDICAL ENGINEERING AND APPLIED MATHEMATICS (Dr. Ulrich M. Engelmann);

(4) **Italia:**

- CNR - INSTITUTE FOR MICROELECTRONICS AND MICROSYSTEMS (IMM), Lecce (Dr. Riccardo Di Corato);
- INSTITUTE OF POLYMERS COMPOSITES AND BIOMATERIALS, NATIONAL RESEARCH COUNCIL OF ITALY, Naples (Dr. Teresa Russo);

(5) **Spania:** UNIVERSITY OF BARCELONA, BIO-PHYS-CHEM DEPARTMENT (Dr. Sergio Madurga);

(6) **Grecia:** NCSR “DEMOKRITOS”, INSTITUTE OF NUCLEAR & RADIOLOGICAL SCIENCES TECHNOLOGY, Athens (Dr. Eirini Fragogeorgi);

(7) **SUA:** UNIVERSITY OF TEXAS (EL PASO), DEPARTMENT OF PHYSICS (Dr. Ahmed A. El-Gendy);

(8) **Mexic:** CENTRO DE INVESTIGACIÓN Y DE ESTUDIOS AVANZADOS DEL INSTITUTO POLITÉCNICO NACIONAL CINVESTAV-IPN, Zacatenco, Ciudad de Mexico (Dr. Jaime Santoyo-Salazar);

(9) Brazilia:

- SÃO PAULO STATE UNIVERSITY (UNESP), INSTITUTE OF CHEMISTRY, MAGNETIC MATERIALS AND COLLOIDS LABORATORY (Prof. Dr. Rodrigo Fernando C. Marques);
- FEDERAL UNIVERSITY OF SÃO PAULO, DEPARTMENT OF SCIENCE AND TECHNOLOGY (Dr. Ana Paula Lemes);

(10) India:

- INDIRA GANDHI CENTRE FOR ATOMIC RESEARCH, SMART MATERIALS DEPARTMENT (Dr. Barid Baran Lahiri);
- SGB AMRAVATI UNIVERSITY, DEPARTMENT OF BIOTECHNOLOGY (Prof. Dr. Mahendra Rai);

- Naționale;

- (1) ACADEMIA ROMÂNĂ – FILIALA TIMIȘOARA (CS I Dr. Cecilia Savii, Dr. Mihaela Popovici);
- (2) UNIVERSITATEA “POLITEHNICA” TIMIȘOARA (Prof. Dr. Mircea Ștefănescu; Conf. Dr. Marcela Stoia);
- (3) UNIVERSITATEA DE MEDICINĂ ȘI FARMACIE “VICTOR BABEȘ” TIMIȘOARA (Prof. Dr. Cristina Dehelean, Prof. Dr. Codruța Șoica, Conf. Dr. Tănăsie Gabriela (ONCOGEN – Spitalul Clinic Județean Timișoara));
- (4) UNIVERSITATEA DE ȘTIINȚE AGRICOLE ȘI MEDICINĂ VETERINARĂ A BANATULUI TIMIȘOARA (Prof. Dr. Nicoleta Hădărugă);
- (5) INSTITUTUL NAȚIONAL DE CERCETARE - DEZVOLTARE PENTRU ELECTROCHIMIE ȘI MATERIE CONDENSATĂ TIMIȘOARA (CS I Dr. Ioan Grozescu, IDT I Dr. Paulina Vlazan);
- (6) UNIVERSITATEA „AL. I. CUZA” IAȘI, FACULTATEA DE FIZICĂ, CENTRUL DE EXCELENȚĂ „CARPATH” (Prof. Dr. Alexandru Stancu; Conf. Dr. Vasile Țura);
- (7) INSTITUTUL DE CHIMIE MACROMOLECULARĂ “PETRU PONI” IAȘI – CENTRUL DE CERCETĂRI AVANSATE PENTRU BIONANOCONJUGATE ȘI BIOPOLIMERI (CS I Dr. Mariana Pinteală, CS I Dr. Liviu Săcărescu);
- (8) INSTITUTUL NAȚIONAL C-D ÎN FIZICĂ ȘI INGINERIE NUCLEARĂ „HORIA HULUBEI” BUCUREȘTI (CS I Dr. Petru Mihai Racolța);
- (9) INSTITUTUL NATIONAL C-D DE CHIMIE-FIZICĂ „ILIE MURGULESCU” BUCUREȘTI (CSI Dr. Victor Fruth);
- (10) UNIVERSITATEA DE MEDICINĂ ȘI FARMACIE CRAIOVA (Conf. Dr. Alice-Sandra Buteică);
- (11) BIOCLINICA TIMIȘOARA (Medic Primar Medicina de Laborator, Dr. Eleonora Gheorghiu);
- (12) "BABES-BOLYAI" UNIVERSITY OF CLUJ-NAPOCA, ELECTRON MICROSCOPY CENTER (Assoc. Professor Dr. Lucian Barbu-Tudoran);

- (13) "BABES-BOLYAI" UNIVERSITY OF CLUJ-NAPOCA, PHYSICS FACULTY (Prof. Dr. Romulus Tetean);
- (14) "IULIU HATIEGANU" UNIVERSITY OF MEDICINE AND PHARMACY OF CLUJ-NAPOCA, DEPARTMENT OF PHARMACEUTICAL PHYSICS AND BIOPHYSICS (Prof. Dr. Constantin Mihai Lucaciu, Prof. Dr. Rares Stiufiuc);
- (15) SYNEVOVET OF BUCURESTI (Veterinary Doctor Elena Pitoiu, Lecturer Dr. Elvira Gagniuc, Veterinary Doctor Claudiu Gal, Expert Ec. Traian Nicolae);
- **9 proiecte/ granturi/ contracte de cercetare, obținute prin competiție națională și internațională (2 director-coordonator, 2 director, 1 responsabil, 2 responsabil echipa partener, 1 colaborator, 1 membru):**
 - Proiect PN-III-P2-2.1-PED-2019-3067, UEFISCDI (2020-2022) - **Director – coordonator parteneriat**;
 - Grant internațional: COST Action, MP0902/2009 (2009 – 2013) – **Responsabil WG2**;
 - Proiect PNCDI II, Parteneriate D7, 71-026/2007 (2007 – 2010) – **Director – coordonator parteneriar**;
 - Grant CNCSIS tip A, Cod 728/2006 (2006 – 2008) – **Director**;
 - Contract (subgrant CNCSIS tip A), Contract 6891/2005 – **Director**;
 - Grant CNCSIS A, Cod 648/2005 (2005 – 2006) – **responsabil echipă** UVT (convenție colab.);
 - Grant CNCSIS A, Cod 583/2003 (2003 – 2005) – **responsabil echipă** UVT (convenție colab.);
 - Grant ANSTI AT, nr. 6142/2000 – **colaborator** (convenție de colaborare nr. 149/2000, dintre Universitatea de Vest Timișoara și Academia Română - Filiala Timișoara);
 - Contract CNCSU, nr. 4012/1995 – **membru** în echipă;
 - **îndrumare tineri cercetători și doctoranzi** (studenți la licență/ master, în proiecte de cercetare și, parțial, doctoranzi (colaborare la finalizarea cu brio (inclusiv ‘Summa Cum Laude’/Excelent) a 4 teze de doctorat));
 - **peste 58 de articole de cercetare științifică publicate** (v. lista de lucrări);
 - 38 în reviste ISI (cu ISI până la ~9 și AIS până la ~2); 43 publicate ca *singur* autor (14 din care 12 ISI), *prim-autor* (23 din care 15 ISI) și *prim-coautor* (14 din care 8 ISI);
 - **10 capitole de cercetare publicate în volume științifice (peer review) la mari edituri internaționale de prestigiu** (5 în SPRINGER, 4 în WILEY, 1 în TAYLOR & FRANCIS – CRC Press) (v. lista de lucrări);
 - 5 capitole *singur* autor; 5 capitole *prim* autor;
 - **6 cărți/volume de cercetare publicate (peer review) la marile edituri internaționale de prestigiu** (1 în WILEY (WoS), 5 în MDPI (WoS)) (v. lista de lucrări);
 - 5 *singur*-autor; 1 *prim*-autor; (1 print și electronic, 5 format electronic);
 - **peste 65 de comunicări științifice la Conferințe** (v. lista de lucrări);
 - 38 la Conferințe Internaționale de prestigiu; 50 ca *singur*-autor (11), *prim*-autor (29) și *prim-coautor* (13);

➤ **Didactic;**

- **titular al disciplinelor didactice** (pe poziția actuală de Conferențiar):
 - (1) **Proprietăți magnetice ale substanței**
 - *continut nou* introdus de mine;
 - (2) **Bioelectromagnetism**
 - *curs nou* introdus de mine în facultate (tematică nouă la nivel național: biocâmpurile electrice și magnetice ale corpului uman, cu aplicații în medicina modernă);
 - (3) **Magnetismul nanosistemelor;**
 - *curs nou* introdus de mine în facultate;
 - (4) **Radiologie și imagistică medicală**
 - *continut nou* introdus de mine;
- **10 cursuri noi și îndrumatoare de laborator introduse în facultate pentru studenți, din care 5 publicate** (v. lista de lucrări):
 - 4 ca singur autor, 1 prim autor;
 - *cursuri noi*: Proprietăți magnetice ale substanței, Bioelectromagnetism, Magnetismul nanosistemelor, Radiologie și imagistica medicală, Nano-biomagnetism, Nano-fluide magnetice, Metode moderne de studiu a nanomaterialelor magnetice, Metode fizice de control nedistructiv, Fizică, Fizică experimentală (II);
 - conceperea și realizarea a 23 de *lucrări noi de laborator* (experimente și referate de laborator), și publicarea lor în îndrumatoarele de laborator
 - **“Electricitate și Magnetism: Lucrări experimentale”** (2001)
 - autori C. Caizer, I. Hrianca,
 - **“Bioelectromagnetism: Lucrări de laborator”** (2013),
 - autor C. Caizer (v. lista de lucrări);
- **dezvoltarea laboratorului didactic la disciplinele noi introduse;**
- **îndrumarea studenților la lucrările de Licență și disertație;**
- **atragera și implicarea studenților din ani terminali (licență, master) în proiecte de cercetare** (proiectele de cercetare pe care le-am condus ca director);
- **7 cărți/ cursuri publicate, cu referenți și ISBN, în edituri recunoscute CNCSIS** (v. lista de lucrări; publice în Biblioteca Centrală Universitară Timișoara (BCUT)):
 - 6 ca singur autor și 1 prim autor;
- **1 Proiect educațional (formare inițială cu durata de 2 ani);**
 - **Proiectul pentru Învățământul Rural (PIR), 2005-2007;**
MEN-UVT-Facultatea de Fizică – **responsabil** UVT pentru domeniul Fizică, și titular al cursului de *Electricitate și magnetism*;
 - co-finanțat de Banca Mondială, Guvernul României și comunitățile rurale;
 - formare profesională de 2 ani în a doua specialitate (Fizică);

(V) Proiecte de cercetare/ granturi

(V.1) Proiecte de cercetare/granturi conduse/coordonate ca director de proiect și responsabil partener

- obținute prin competiție națională și internațională -

- (1) *Proiect de cercetare PN-III-P2-2.1-PED-2019-3067, UEFISCDI* (2020-2022);
- (2) *Grant suport internațional, Comisia Europeană: COST Action MP0902* (2009-2013);
- (3) *Proiect de cercetare PNCDI-II, Parteneriate D7, 71-026/2007, ANCS-CNMP* (2007-2010);
- (4) *Grant de cercetare: CNCSIS tip A, Cod 728/2006* (2006-2008);
- (5) *Contract de cercetare: subgrant CNCSIS tip A, Cod 648/2005* (2005);

(1) Proiect de cercetare PN-III-P2-2.1-PED-2019-3067, UEFISCDI;

Contract 263PED/2020

Acronim proiect: BIO-SPION

Perioada de derulare a proiectului: 2020 – 2022;

Valoarea aprobată: 600.000 RON;

• Titlu proiect:

NANOBIOSTRUCTURI INOVATOARE BAZATE PE NANOPARTICULE FERIMAGNETICE BIOCONJUGATE CU CICLODEXTRINE PENTRU CREȘTEREA EFICACITĂȚII ȘI REDUCEREA TOXICITĂȚII ÎN TERAPIA CANCERULUI PRIN HIPERTERMIE SUPERPARAMAGNETICĂ

Director de proiect - coordonator: Conf. Dr. Habil. CAIZER Costică

Conducător de proiect (CO): UNIVERSITATEA DE VEST TIMISOARA (UVT)

Autoritatea Contractantă: UEFISCDI (MEN)

Partenerul în proiect:

- P1 (UMFVBT): UNIVERSITATEA DE MEDICINĂ ȘI FARMACIE “VICTOR BABEȘ” TIMIȘOARA (Responsabil proiect Prof. Dr. ȘOICA Codruța)

Principalele rezultate/publicații:

- 7 articole ISI (6 zona rosie, 1 zona galbenă); 1 articol indexat WOS; 3 capitole de cercetare în SPRINGER și WILEY; 2 lucrări la Conferințe Internaționale și 2 Naționale; 1 Teză de Doctorat cu rezultate parțiale din proiect; bionanoparticule SPION- γ -ciclodextrine (bionanoconjugate) pentru terapia cancerului mamar MCF-7 prin hipertermie superparamagnetică (SPMHT), cu eficacitate foarte mare (~95 %) și fără toxicitate; 1 protocol de aplicare a SPMHT *in vitro*;
- Rezultatele sunt cuprinse (detaliat) și în documentele de raportare oficiale și Raportul final către autoritatea contractantă (UEFISCDI);

Principalele publicații;

Articole cu IF în WOS:

- [1] **Costica Caizer**, Isabela Simona Caizer, Roxana Racoviceanu, Claudia Geanina Watz, Mioc Marius, Cristina Adriana Dehelean, Tiberiu Bratu, Codruta Marinela Soica, Fe_3O_4 -PAA-(HP- γ -CDs) Biocompatible Ferrimagnetic Nanoparticles for Increasing Efficacy in Superparamagnetic Hyperthermia, *NANOMATERIALS*, 12 (2022) 2577 (IF: 5.719; Q1 - red area).
- [2] Isabela Simona Caizer, **Costica Caizer**, Superparamagnetic Hyperthermia Study with Cobalt Ferrite Nanoparticles Covered with γ -Cyclodextrins by Computer Simulation for Application in Alternative Cancer Therapy, *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 23 (2022) 4350 (IF: 6.208; Q1 - red area).
- [3] **Costica Caizer**, *Computational study regarding $\text{Co}_x\text{Fe}_{3-x}\text{O}_4$ ferrite nanoparticles with tunable magnetic properties in superparamagnetic hyperthermia for effective alternative cancer therapy*, *NANOMATERIALS*, 11 (2021) 3294 (IF: 5.076; Q1 - red area).
- [4] **Costica Caizer**, Isabela Simona Caizer, *Study on maximum specific loss power in Fe_3O_4 nanoparticles decorated with biocompatible gamma-cyclodextrins for cancer therapy with superparamagnetic hyperthermia*, *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 22 (2021) 10071 (IF: 5.924; Q1 - red area).
- [5] Elena-Alina Moaca, Claudia Geanina Watz, Vlad Socoliuc, Roxana Racoviceanu, Cornelia Pacurariu, Robert Ianos, Simona Cînta-Pînzaru, Lucian Barbu Tudoran, Fran Nekvapil, Stela Iurciuc, Codruta Șoica, Cristina Adriana Dehelean, *Biocompatible magnetic colloidal suspension used as a tool for localized hyperthermia in human breast adenocarcinoma cells: physicochemical analysis and complex in vitro biological profile*, *NANOMATERIALS*, 11 (2021) 1189 (IF: 5.076; Q1 - red area).
- [6] **Costica Caizer**, *Theoretical study on specific loss power and heating temperature in CoFe_2O_4 nanoparticles as possible candidate for alternative cancer therapy by superparamagnetic hyperthermia*, *APPLIED SCIENCES*, 11 (2021) 5505 (IF: 2.679; Q2 - yellow area).
- [7] **Costica Caizer**, *Optimization study on specific loss power in superparamagnetic hyperthermia with magnetite nanoparticles for high efficiency in alternative cancer therapy*, *NANOMATERIALS*, 11 (2021) 40 (IF: 5.076; Q1 - red area).

Articole WOS:

- [8] I.S. Caizer, C. Caizer, Cobalt Doped Fe_3O_4 Nanoparticles for Magnetic Hyperthermia Application, *AMERICAN INSTITUTE OF PHYSICS CONFERENCE PROCEEDINGS SERIES*, 2022 (BDI, Web of Science), in press.

Capitole de cercetare în cărți (in edituri WoS):

- [9] Costica Caizer, *Magnetic/Superparamagnetic hyperthermia in clinical trials for noninvasive alternative cancer therapy*. In: *Magnetic Nanoparticles in Human Health and Medicine: Current Medical Applications and Alternative Therapy of Cancer* (Caizer C. and Rai M. (Eds.)), WILEY, 2022, pp. 430–463 (Web of Science (WoS)).
- [10] Costica Caizer, Cristina Dehelean, Codruta Soica, *Classical magnetoliposomes vs. current magnetocyclodextrins with ferrimagnetic nanoparticles for high efficiency and low toxicity in noninvasive alternative therapy of cancer by magnetic/superparamagnetic hyperthermia*. In:

Magnetic Nanoparticles in Human Health and Medicine: Current Medical Applications and Alternative Therapy of Cancer (Caizer C. and Rai M. (Eds.)), WILEY, 2021, pp. 272–306 (WoS).

- [11] Costica Caizer, Cristina Dehelean, Dorina Elena Coricovac, Isabela Simona Caizer, Codruța Șoica, *Magnetic nanoparticle nanoformulations for alternative therapy of cancer by magnetic/superparamagnetic hyperthermia*. In: Nanoformulations in Human Health (Talegaonkar S. and Rai M. (eds.)), SPRINGER, 2020, pp. 503–530 (WoS).

Conferințe;

Internaționale:

1. Costica Caizer, Isabela Simona Caizer, Roxana Racoviceanu, Claudia Geanina Watz, Mioc Marius, Cristina Adriana Dehelean, Tiberiu Bratu, Codruta Marinela Soica, *The Fe₃O₄-PAA-(HP-γ-CDs) Biocompatible Ferrimagnetic Nanoparticles for Increasing Efficacy and Reducing Toxicity in Superparamagnetic Hyperthermia: A Promising Approach for Alternative Cancer Therapy*, **³NANO-22 Nano Science/Technology/Biotechnology International Conference**, 6th Edition, 20-23 Sept., 2022, Roma, Italy; ID-029.
2. C. Caizer, I.S. Caizer, C. Soica, R. Racoviceanu, M. Mihoc, *The (Co-Fe)_f ferrite biocompatible magnetic nanoparticles for increasing efficacy and reducing toxicity in superparamagnetic hyperthermia for alternative cancer therapy*, **13th International Conference on Physics of Advanced Materials (ICPAM-13)**, September 24–30, 2021, Sant Feliu de Guixols, Spain. Abstract Book: pp. 47–49.

Naționale:

3. R. Racoviceanu, M. Mioc, C. Soica, C. Caizer and I.S. Caizer, *Cobalt doped Fe₃O₄ nanoparticles – synthesis, characterization and magnetic hyperthermia application*, **TIM 20-21 Physics Conference**, November 11th–13th, 2021, Timisoara, Romania. Abstract Book: API-O12.
4. Roxana Racoviceanu, Marius Mioc, Roxana Ghiulai, Alexandra Ulici, Andreea Milan, Codruța Șoica, *Synthesis and characterization of cobalt doped magnetite nanoparticles destined for hyperthermia applications*, **Congresul Național de Farmacie**, Ed. XVIII, 15–17 sept., 2021, Oradea, Romania. ID: 254.

- Rezultatele obținute în cadrul proiectului au fost **evaluate în 2022 de către UEFISCDI cu calificativul EXCELENT**;

(2) Support International Project, COST Action MP0902/2009;

Project period: 2009 – 2013;

Project title:

COMPOSITES OF INORGANIC NANOTUBES AND POLYMERS (COINAPO)

Chair (Slovenia): Prof. Irena Drevenšek Olenik

Project Director (Romania): Dr. Petru Mihai Racolta

Contractor: *IFIN – HORIA HULUBEI*

Contracting Authority: *EUROPEAN COMMISSION (EU RTD Framework Programme)*

Romanian Partners:

IFIN - HORIA HULUBEI Bucuresti: Dr. Petru Mihai RACOLTA (WG2, WG3);

ICF „ILIE MURGULESCU” Bucuresti: Dr. Victor FRUTH (WG1, WG2);

UNIVERSITATEA „AL. I. CUZA” Iasi: Assoc. Professor Vasile TURA (WG4);

WEST UNIVERSITY OF TIMISOARA: **Assoc. Professor Costica CAIZER** (WG2);

ICM “PETRU PONI” Iasi: Dr. Liviu SACARESCU (WG1, WG2);

NAT. INSTITUTE OF OPTOELECTRONICS Bucuresti: Dr. Viorel BRAIC (WG1, WG2);

**(3) Proiect PNCDI-II, Programul: PARTENERIATE ÎN DOMENII
PRIORITARE;**

Domeniul: D7

Contract nr. 71-026/2007

Acronim proiect: NANOPART

Perioada de derulare a proiectului: 2007 – 2010;

Valoarea aprobată: 2.000.000 RON;

• **Titlu proiect:**

CERCETĂRI COMPLEXE PRIVIND OBTINEREA ȘI PROPRIETĂȚILE MAGNETICE ALE SISTEMELOR DE NANOPARTICULE FERIMAGNETICE DE $\text{Co}_8\text{Fe}_{3-\delta}\text{O}_4$ SURFACTATE/ NESURFACTATE ȘI BIOCOMPATIBILE CU POTENȚIALE APLICAȚII ÎN TERAPIA CANCERULUI

Director de proiect - coordonator: Conf. Dr. CAIZER Costică

Conducător de proiect (CO): UNIVERSITATEA DE VEST TIMISOARA (UVT)

Autoritatea Contractantă: CENTRUL NAȚIONAL DE MANAGEMENT PROGRAME (CNMP) – ANCS

Parteneri în proiect:

- P1 (UPT): UNIVERSITATEA “POLITEHNICA” TIMIȘOARA (Responsabil proiect Conf. Dr. Ștefănescu Mircea)
- P2 (INCDEMCT): INSTITUTUL NAȚIONAL DE CERCETARE-DEZVOLTARE PENTRU ELECTROCHIMIE ȘI MATERIE CONDENSATĂ TIMIȘOARA (Responsabil proiect IDT I Dr. Vlăzan Paulina)
- P3 (UAIC): UNIVERSITATEA “AL. I. CUZA” IAȘI (Responsabil proiect Prof. Dr. Stancu Alexandru)
- P4 (USAMVBT): UNIVERSITATEA DE ȘTIINȚE AGRICOLE ȘI MEDICINĂ VETERINARĂ A BANATULUI TIMIȘOARA (Responsabil proiect Lect Dr. Hădărugă Nicoleta)

- P5 (UMFVBT): UNIVERSITATEA DE MEDICINĂ ȘI FARMACIE “VICTOR BABEȘ” TIMIȘOARA (Responsabil proiect Conf. Dr. Tănăsie Gabriela)

Principalele rezultate/ publicatii:

- 10 articole ISI; 6 articole în alte baze de date (naționale și internaționale) și Proceedings; 1 carte; 22 de lucrări științifice la Conferințe Internaționale și 1 Națională; 1 Teză de Doctorat cu rezultate parțiale din proiect; nanoparticule magnetice de ferită Co-Fe (surfactate/nosurfactate) înglobate în lipozomi (magneto-lipozomi) cu potențiale aplicații în terapia cancerului prin hipertermie magnetică;
- Rezultatele sunt cuprinse (detaliat) și în documentele de raportare oficiale și Raportul final către autoritatea contractantă (ANCS-CNMP);

Principalele publicații ISI:

- [1] M. Stoia, M. Stefanescu, T. Dippong, O. Stefanescu, P. Barvinschi, *Low temperature synthesis of Co₂SiO₄/SiO₂ nanocomposite using a modified sol-gel method*, JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, 54 (2010) 49.
- [2] C. Enachescu; A. Dobrinescu, A. Stancu, *Single-domain particle hysteresis for a Random Anisotropy Ising System with exchange and magnetostatic interactions*, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, 322 (2010) 1368.
- [3] O. Ștefănescu, C. Davidescu, P. Barvinschi, *The effect of temperature and Fe³⁺ concentration on the formation of γ-Fe₂O₃ nanoparticles embedded in silica matrix*, ACTA CHIMICA SLOVENICA, 57 (2010) 424.
- [4] P. Vlăzan, M. Bradiceanu, P. Sfirloaga, R. Baies, A. Grozescu, S. Novaconi, *The precursors influence on the physical properties of cobalt ferrites nanoparticles*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS - Symposia, 1 (2009) 34.
- [5] M. Pavel; A. Stancu, *Ferromagnetic Nanoparticles Dose based on Tumor Size in MFH Cancer Therapy*, IEEE TRANSACTIONS ON MAGNETICS 45 (2009) 5251.
- [6] M. Pavel; A. Stancu, *Study of the Optimum Injection Sites for a Multiple Metastasis Region in Cancer Therapy by Using MFH*, IEEE TRANSACTIONS ON MAGNETICS 45 (2009) 4825.
- [7] M. Stefanescu, M. Stoia, T. Dippong, O. Stefanescu, P. Barvinschi, *Preparation of Co_xFe_{3-x}O₄ oxydic system starting from metal nitrates and propanediol*, ACTA CHIMICA SLOVENIA 56 (2009) 379.
- [8] M. Stefanescu, M. Stoia, C. Caizer, T. Dippong, P. Barvinschi, *Preparation of Co_xFe_{3-x}O₄ nanoparticles by thermal decomposition of some organo-metallic precursors*, JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY 97 (2009) 245.
- [9] M. Pavel; G. Gradinariu; A. Stancu, *A study of the optimum dose of ferromagnetic nanoparticles suitable for cancer therapy using magnetic fluid hyperthermia*. IEEE TRANSACTIONS ON MAGNETICS, 44 (2008) 3205.
- [10] M. Stefanescu, T. Dippong, M. Stoia and O. Stefanescu, *Study on the obtaining of cobalt oxides by thermal decomposition of some complex combinations, undispersed and dispersed in SiO₂ matrix*, JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY 94 (2008) 389.

Carte:

- [11] C. Caizer, *Nano-Biomagnetism*, Editura Universității de Vest, Timișoara, 2010; ISBN 978-973-125-331-2

Conferințe internaționale (extras):

1. M. Stefanescu, M. Stoia, C. Caizer, T. Dippong, P. Barvinschi, *Preparation of $\text{Co}_x\text{Fe}_{3-x}\text{O}_4$ nanoparticles by thermal decomposition of some organo-metallic precursors*, **The 14-th International Conference on Thermal Analysis and Calorimetry**, 14 - 18 September, 2008, Sao Paulo, Brazilia.
2. M. Pavel, A. Stancu, *Study of the dependence of tumor dimension on the optimum dosage of ferromagnetic nanoparticles in cancer therapy using MFH*, **Joint European Magnetism Symposium (JEMS)**, 14-19 september, 2008, Dublin, Ireland; BM008.
3. A. Stancu; C. Enachescu, *Single-domain ferromagnetic particle hysteresis investigated with a Random Anisotropy Ising model*, **53rd Annual Conference on Magnetism and Magnetic Materials (MMM 2008)**, November 10–14, 2008, Austin, Texas, USA; ID: DW-11, pag. 132.
4. M. Pavel; A. Stancu, *A Study of the Dependence of Tumor Volume on the Optimum Dosage of Ferromagnetic Nanoparticles In Cancer Therapy Using MFH*, **53rd Annual Conference on Magnetism and Magnetic Materials (MMM 2008)**, November 10–14, 2008, Austin, Texas, USA; ID: CG-13, pag. 85.
5. P. Vlazan, M. Bradiceanu, A. Grozescu, P. Sfirloaga, M. Miclau, S. Novaconi, I. Grozescu, *Advantage of hydrothermal synthesis cobalt ferritic nanostructures vs. coprecipitation*, **15th Central European Conference (CEWQO 2008)**, 30 May – 03 June, 2008, Belgrad.
6. C. Caizer, M. Stefanescu, M. Stoia, *The obtaining and the magnetic characterization of the cobalt ferrite nanocrystallites*, **IEEE Magnetism Society Chapter (IEEE ROMSC 2009)**, Romanian Section, June 6 - 9, 2009, Iasi, Romania; Invited paper: I5.
7. C. Caizer, P. Vlazan, P. Barvinschi, *The effect of Co^{2+} ions concentration on the magnetic behavior of the surfacted/nonsurfacted $\text{Co}_\delta\text{Fe}_{(3-\delta)}\text{O}_4$ nanoparticles*, **IEEE Magnetism Society Chapter (IEEE ROMSC 2009)**, Romanian Section, June 6 - 9, 2009, Iasi, Romania; Section A: Magnetic materials and advanced characterization, P11.
8. C. Caizer, D.M. Baltateanu, *Computational method for precise evaluation of the mean magnetic diameter of the SPM nanoparticles*, **IEEE Magnetism Society Chapter (IEEE ROMSC 2009)**, Romanian Section, June 6 - 9, 2009, Iasi, Romania; Section D. Computational magnetism, P10.
9. M. Pavel, A. Stancu, *Ferromagnetic nanoparticles dose based on tumor size in MFH cancer therapy*, **The 7th International Symposium on Hysteresis Modeling and Micromagnetism (HMM-2009)** - 11-14 may, 2009, Gaithersburg, MD, USA; PD-1, pag. 101.
10. M. Pavel, A. Stancu, *Study of the optimum injection sites for a multiple metastasis region in cancer therapy by using MFH*, **IEEE International Magnetism Conference, INTERMAG 2009**, 4-8 may, 2009, Sacramento, California, USA; DS-06, pag. 91.
11. C. Caizer, A. Stancu, P. Postolache, I. Dumitru, I. Bodale, P. Vlazan, *The magnetic properties of the $\text{Co}_\delta\text{Fe}_{(3-\delta)}\text{O}_4$ surfacted nanoparticles, with potential applications in cancer therapy*, **7th International Conference on Fine Particle Magnetism (ICFPM 2010)**, June 21 – 24, 2010, Uppsala, Sweden.
12. C. Caizer, M. Stefanescu, M. Stoia, P. Barvinschi, A. Neculae, *The $\text{Fe}^{2+}, \text{Fe}^{3+}$ ions and annealing temperature influence on the structure and magnetization of the $\text{Co}_x(\text{Fe}^{2+}, \text{Fe}^{3+})_{3-x}\text{O}_4$ nanoparticles, obtained through the co-precipitation method*, **7th International Conference on Fine Particle Magnetism (ICFPM 2010)**, June 21 – 24, 2010, Uppsala, Sweden.

13. C. Caizer, N. Hadaruga, D. Hadaruga, G. Tanasie, P. Vlazan, *The Co ferrite nanoparticles/liposomes: magnetic bionanocomposites for applications in malignant tumors therapy*, 7th **International Conference on Inorganic Materials**, 12 – 14 September 2010, Biarritz, France.
14. D.I. Hădărugă, N.G. Hădărugă, C. Lazău, C. Rațiu, C. Crăciun, I. Grozescu, *New liposomes containing metal oxides: original method for evaluation of composition*, 10th **International Symposium on Metal Elements in Environment, Medicine and Biology**, Timișoara, November 11-12, 2010.

(4) Grant CNCSIS tip A, Cod CNCSIS 728/2006;

Contract nr. 56GR/2006; Contract nr. GR75/2007; Contract nr. 97GR/2008

Perioada de derulare a proiectului: 2006 – 2008;

Valoarea aprobată: 450.000.000 ROL;

- **Titlu proiect:**

CECETĂRI FUNDAMENTALE ȘI FUNDAMENTAL-APLICATIVE PRIVIND SISTEMELE DE NANOPARTICULE FERIMAGNETICE, SPINELICE, DISPERSE

Director de proiect: Lect. Dr. CAIZER Costică

Contractor: UNIVERSITATEA DE VEST TIMIȘOARA (UVT)

Autoritatea Contractantă: CONSILIUL NAȚIONAL AL CERCETĂRII ȘTIINȚIFICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR (CNCSIS)

Principalele rezultate/publicații:

- 6 articole ISI; 1 articol în Analele Univ.; 1 carte; 5 lucrări la Conferințe Internaționale și 2 Naționale; 1 Teză de Doctorat cu rezultate parțiale din grant; sisteme de nanoparticule ferimagnetice spinelice (Fe_3O_4 , CoFe_2O_4 , $(\text{Co-Fe})\text{Fe}_2\text{O}_4$, $(\text{Ni-Zn})\text{Fe}_2\text{O}_4$) dispersate în diferite medii (lichide (ferofluide), matrice solidă (SiO_2), aer);
- Rezultatele sunt cuprinse (detaliat) și în documentele de raportare oficiale și Raportul final către autoritatea contractantă (CNCSIS-UEFISCDI);

Principalele publicații (ISI):

- [1] M. Stefanescu, M. Stoia, C. Caizer, O. Stefanescu, *Preparation of $x(\text{Ni}_{0.65}\text{Zn}_{0.35}\text{Fe}_2\text{O}_4)/(1-x)\text{SiO}_2$ nanocomposite powders by a modified sol-gel method*, MATERIALS CHEMISTRY AND PHYSICS, 113 (2009) 342 – 348.
- [2] I. Hrianca, *On the possibility to achieve population inversion in a magnetic nanoparticle system*, PHYSICA B 403 (2008) 1831-1837.
- [3] C. Caizer, *Magnetic properties of the novel nanocomposite $(\text{Zn}_{0.15}\text{Ni}_{0.85}\text{Fe}_2\text{O}_4)_{0.15}/(\text{SiO}_2)_{0.85}$ at room temperature*, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 320 (2008) 1056-1062.

- [4] M. Stoia, C. Caizer, M. Stefanescu, P. Barvinschi, I. Julean, *Obtaining of Ni_{0.65}Zn_{0.35}Fe₂O₄/SiO₂ nanocomposites by thermal decomposition of complex compounds embedded in silica matrix*, JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY 88 (2007) 193-200.
- [5] C. Caizer, V. Tura, *Magnetic relaxation/stability of Co ferrite nanoparticles embedded in amorphous silica particles*, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 301 (2006) 513 – 520).
- [6] M. Stefanescu, C. Caizer, M. Stoia, O. Stefanescu, *Ultrafine, perfectly spherical Ni-Zn ferrite nanoparticles, with ultranarrow distribution, isolated in a silica matrix, prepared by a novel synthesis method in the liquid phase*, ACTA MATERIALIA 54 (2006) 1249 – 1256).

Carte:

C. Caizer, *Impulsuri electrice. Aplicații în circuite electrice, dispozitive electronice și magnetism tehnic*, Editura MIRTON, Timișoara, 2007, 268 pagini; I.S.B.N.: 978-973-52-0064-0.

Conferințe internaționale:

1. M. Stefanescu, M. Stoia, C. Caizer, T. Dippong, P. Barvinschi, *Preparation of Co_xFe_{3-x}O₄ nanoparticles by thermal decomposition of some organo-metallic precursors*, **14-th International Conference on Thermal Analysis and Calorimetry**, September, 2008, Sao Paulo, Brazilia.
2. C. Caizer, M. Stefanescu, M. Stoia, P. Barvinschi, I. Hrianca, *Advanced nanocomposites of Ni,Zn ferrite – amorphous silica, obtained by means of a new sol-gel method: magnetic behaviour*, **International Conference on Fine Particles Magnetism (ICFPM-07)**, October 9 – 12, 2007, Rome, Italy. Contribution: PA36, p. 128.
3. C. Caizer, D. M. Baltateanu, *Method for precisely determining the thickness of the shell of superparamagnetic surfacted nanoparticles*, **International Conference on Fine Particles Magnetism (ICFPM-07)**, October 9 – 12, 2007, Rome, Italy. Contribution: PA35, p. 127.
4. M. Stoia, M. Stefanescu, C. Caizer, O. Stefanescu, *Synthesis of magnetic nanocomposites x%(Ni_{0.75}Zn_{0.25}Fe₂O₄)/(100-x)%SiO₂ by a sol-gel method*, **The IX International Symposium “Young People and Multidisciplinary Research” ISYPMR 2007 ACM-V**, Timisoara, 15-16 November, 2007.
5. M. Stoia, C. Caizer, M. Stefanescu, P. Barvinschi, *Obtaining of (Ni_{0.65}Zn_{0.35}Fe₂O₄)_x-(SiO₂)_{100-x}*, **9th European Symposium on Thermal Analysis and Calorimetry (ESTAC 9)**, Krakow, Poland, 27 – 31 August, 2006.

Naționale:

1. C. Caizer, M. Stefanescu, M. Stoia, P. Barvinschi, I. Hrianca, *The temperature and ferrite/silica ratio effect on the magnetic behavior of γ(Zn_{0.35}Ni_{0.65}Fe₂O₄)-(1-γ)SiO₂ nanocomposites*, **The 5th National Conference “New Research Trends in Materials Science” (ARM-5)**, 5-7 Sept., Sibiu, Romania, 2007. Contribution: 5-133.
2. C. Caizer, I. Hrianca, V. Ciupina, G. Prodan, *The structural and magnetic characterization of 5-6 nm soft nanoparticles, surfacted and dispersed in liquid matrix*, **The 5th National Conference “New Research Trends in Materials Science” (ARM-5)**, 5-7 Sept., Sibiu, Romania, 2007. Contribution: 5-132.

(5) Contract nr. 6891/2005 (subgrant CNCSIS tip A);

Perioada de derulare a contractului: 2005;

Valoare aprobată: 25.000.000 ROL;

• **Titlu proiect:**

STUDIUL PROPRIETĂȚILOR MAGNETICE ALE NANOCOMPOZITELOR DE TIP $\text{Ni}_{(1-x)}\text{Zn}_x\text{Fe}_2\text{O}_4/\text{SiO}_2$

Director: Lect. Dr. CAIZER Costică

Contractor: UNIVERSITATEA DE VEST TIMIȘOARA (UVT)

Autoritatea Contractantă: UNIVERSITATEA POLITEHNICA TIMIȘOARA (UPT) – CNCSIS

Principalele rezultate/publicații:

- 2 articole ISI; 4 comunicări la Conferințe Internaționale; nanoparticule de ferită Ni-Zn ultrafine și cu forma sferică dispersate omogen în matrice amorfă de SiO_2 , obținute printr-o metodă nouă de sinteză chimică în fază lichidă;
- Rezultatele acestea sunt cuprinse (detaliat) și în Raportul de cercetare către autoritatea contractantă);

Principalele publicații ISI:

- [1] M. Ștefănescu, C. Caizer, M. Stoia, O. Ștefănescu, *Ni,Zn/SiO₂ ferrite nanocomposites prepared by an improved sol-gel method and their characterisation*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 7 (2005) 607-614.
- [2] M. Ștefănescu, C. Caizer, M. Stoia, O. Ștefănescu, *Ultrafine, perfectly spherical Ni-Zn ferrite nanoparticles, with ultranarrow distribution, isolated in a silica matrix, prepared by a novel synthesis method in the liquid phase*, ACTA MATERIALIA 54 (2006) 1249-1256.

Conferințe internaționale:

1. M. Ștefănescu, C. Caizer, M. Stoia, O. Ștefănescu, *Studies on the synthesis of Ni,Zn ferrite/SiO₂ nanocomposites through a modified sol-gel method*, **Romanian International Conference on Chemistry and Chemical Engineering (RICCCE XIV)**, 22-24 Sept., 2005, Bucharest. Contribution: O-S02, p. 48.
2. C. Caizer, D. Bălățeanu, *Precise method for evaluating the mean magnetic diameter of the superparamagnetic nanoparticles*, **Physics Conference (TIM-05) - with International Participation**, Timișoara, November 25th – 26th, 2005. Contribution: MMP-03.
3. C. Caizer, N. Ștefu, D. Bălățeanu, M. Ștefănescu, M. Stoia, P. Barvinschi, *Magnetic properties of the $\text{Ni}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4/\text{SiO}_2$ nanocomposites*, **Physics Conference (TIM-05) - with International Participation**, Timișoara, November 26th – 26th, 2005. Contribution: MMP-04.
4. M. Stoia, C. Caizer, M. Ștefănescu, P. Barvinschi, *Obtaining of $(\text{Ni}_{0.65}\text{Zn}_{0.35}\text{Fe}_2\text{O}_4)_x-(\text{SiO}_2)_{100-x}$* , **9th European Symposium on Thermal Analysis and Calorimetry (ESTAC 9)**, Crakow, POLAND, 28 – 31 August, 2006.

(V.2) Granturi de cercetare în care am fost responsabil de echipă din partea UVT (Fizică) (convenții de colaborare);

- obținute prin competiție națională -

(6) Grant CNCSIS tip A, Cod CNCSIS 648/2005

Contract nr. 2738/2006

Perioada de derulare a proiectului: 2005 – 2006;

Valoarea aprobată: 250.000.000 ROL

• **Titlu proiect:**

NANOCOMPOZITE DE TIP $\text{Ni}_x\text{Zn}_{(1-x)}\text{Fe}_2\text{O}_4$ CU PROPRIETĂȚI MAGNETICE DIRIJATE, OBȚINUTE PRIN DOUĂ METODE NECONVENȚIONALE, ORIGINALE

Director de proiect: Prof. Dr. Ștefănescu Mircea (UPT)

Responsabil echipă din partea UVT-Fizică (convenție de colaborare): Lect. Dr. Caizer Costică

Contractor: UNIVERSITATEA POLITEHNICA TIMIȘOARA (UPT)

Autoritatea Contractantă: CNCSIS

(7) Grant CNCSIS tip A, Cod CNCSIS 583/2003

Perioada de derulare a proiectului: 2003 – 2005;

Valoare: 269.000.000 ROL;

• **Titlu proiect**

MATRICI HIBRIDE ORGANICE-ANORGANICE ȘI NANOCOMPOZITE MODIFICATE CHIMIC, CU PROPRIETĂȚI MAGNETICE SPECIALE, OBȚINUTE PRIN METODA SOL-GEL ȘI SONOSINTEZĂ

Director de proiect: CPI Dr. Savii Cecilia (Academia Romana)

Responsabil echipă din partea UVT-Fizică (convenție de colaborare): Lect. Dr. Caizer Costică

Contractor: ACADEMIA ROMÂNĂ – FILIALA TIMIȘOARA

Autoritatea Contractantă: CNCSIS

(8) Grant ANSTI AT, nr. 6142/2000;

Perioada de derulare a proiectului: 2000;

• **Titlu proiect:**

SINTEZA SOL-GEL SI CARACTERIZAREA UNOR NANOCOMPOZITE PE BAZA DE OXIZI DE FIER IN MATRICE DE SILICE AMORFA

Director de proiect: CS Mihaela POPOVICI (Academia Română – filiala Timișoara);
Responsabil echipa UVT-Fizică (convenție colaborare): Asistent univ. Costică Caizer

Contractor: ACADEMIA ROMÂNĂ – FILIALA TIMIȘOARA
Autoritatea Contractantă: CNCSIS-ANCS

(VI) Premii/ distincții privind recunoașterea contribuțiilor științifice și vizibilitatea internațională

◆ Distincții;

- *The Albert Einstein Award of Excellence 2011*, ABI, USA;
- *Diplomă de Excelență* (pentru cercetare științifică), Universitatea de Vest Timișoara, 2010;
- “*TOP 100 SCIENTISTS 2009*”, *silver medal*, IBC, Cambridge, ENGLAND;
- *Nominalizat și inclus în „WHO’S WHO IN THE WORLD”*, 24th Edition, Marquis Who’s Who, 2007, NJ, USA;
- **Cea mai înaltă distincție, “SUMMA CUM LAUDE”**, la conferirea titlului de Doctor în Fizică, 2003;

◆ Alte elemente de recunoaștere a contribuțiilor științifice:

- **Citări** în reviste internaționale de mare prestigiu cotate ISI (cu **ISI până la ~ 62**) (ex.: Phys. Rev. Lett., Phys. Rev. B, Appl. Phys. Lett., J. Appl. Phys., J. Phys.: Condens. Matter, Results Phys., Acta Materialia, Scripta Materialia, J. Am. Chem. Soc., Chem. Rev., Chem. Mater., Nano Today, Nanoscale, Nanotechnology, J. Nanobiotechnol., etc.);

- **Hirsch index și număr de citări;**

- **h-index: 17** (Clarivate Analytics – Web of Science (WoS));
19 (Scopus);
21 (Google Academic);
- **număr de citări** (fără autocitări): **peste 800** (Clarivate Analytics – WoS);

- **Referent științific (invitat) la reviste ISI (WoS) din străinătate;**

- referent la 56 reviste cu factor de impact (IF) **până la ~30**;

- (1) Materials Research Bulletin – Elsevier Science (referent din 2004);
- (2) European Journal of Chemical Physics and Physical Chemistry) – Wiley-VCH (referent din 2004);
- (3) Journal of Magnetism and Magnetic Materials – Elsevier Science (referent din 2005);
- (4) Materials Chemistry and Physics – Elsevier Science (referent din 2005);
- (5) Journal of Materials Science – Kluwer Academic (referent din 2005);
- (6) Europhysics Letters – European Physical Society (referent din 2006);
- (7) Materials Science and Engineering B: Solid State for Advanced Technology – Elsevier Science (referent din 2006);
- (8) Journal of Materials Science and Technology – Chinese Academy of Science (referent din 2006);

- (9) Advanced Functional Materials – Wiley-VCH (referent din 2007);
- (10) European Journal of Inorganic Chemistry – Wiley-VCH (referent din 2007);
- (11) Solid State Communication – Elsevier Science (referent din 2007);
- (12) Small - Wiley-VCH (referent din 2007);
- (13) Journal of Alloys and Compounds – Elsevier Science (referent din 2007);
- (14) Physica B - Elsevier Science (referent din 2007);
- (15) Journal of Physics D: Applied Physics – Institute of Physics Publishing (IOP), U.K. (referent din 2008);
- (16) Processing and Application of Ceramics – Elsevier Science (referent din 2008);
- (17) Nanotechnology – Institute of Physics Publishing (IOP), U.K (referent din 2009);
- (18) Advanced Materials – Wiley-VCH (referent din 2009);
- (19) Journal of Applied Physics – American Institute of Physics (AIP), USA (referent din 2009);
- (20) International Journal of Modern Physics B – World Scientific Publishing, USA (referent din 2009);
- (21) Materials Letters – Elsevier Science (referent din 2010);
- (22) Materials Characterization – Elsevier Science (referent din 2012);
- (23) Journal of Materials Science & Technology – Elsevier (ScienceDirect) (referent din 2016);
- (24) Luminiscence – Wiley (referent din 2016);
- (25) Journal of Materials Science – Springer Link (referent din 2017);
- (26) Materials Science and Engineering: C – Elsevier (ScienceDirect) (referent din 2018);
- (27) Nanomedicine – Taylor & Francis (UK) (referent din 2020);
- (28) Science Progress – Sage Publications LTD (UK) (referent din 2021);
- (29) Nanomaterials – MDPI (Switzerland) (referent din 2021);
- (30) IEEE Transaction on Magnetics – IEEE Magnetics Society (referent din 2022);
- (31) International Journal of Molecular Science – MDPI (Switzerland) (referent din 2022);
- (32) Energies – MDPI (Switzerland) (referent din 2022);
- (33) Crystals – MDPI (Switzerland) (referent din 2022);
- (34) Pharmaceutics – MDPI (Switzerland) (referent din 2022);
- (35) Medicina – MDPI (Switzerland) (referent din 2022);
- (36) Cancers – MDPI (Switzerland) (referent din 2022);
- (37) Magnetochemistry – MDPI (Switzerland) (referent din 2023);
- (38) Results in Engineering – Elsevier (referent din 2023);
- (39) Heliyon – Elsevier (Cell Press) (referent din 2023);
- (40) Materials – MDPI (Switzerland) (referent din 2023);
- (41) Applied Sciences – MDPI (Switzerland) (referent din 2023);
- (42) International Journal of Heat and Mass Transfer – Elsevier (referent din 2024);
- (43) Colloids and Surfaces A: Physicochemical and Engineering Aspects – Elsevier (referent din 2024);
- (44) Sensors – MDPI (Switzerland) (referent din 2024);
- (45) Numerical Heat Transfer, Part B: Fundamentals – Taylor & Francis (referent din 2024);
- (46) Pharmaceutics – MDPI (Switzerland) (referent din 2024);
- (47) Cancer Nanotechnology – Springer Nature (BMC) (referent din 2024);
- (48) Scientific Reports – Springer Nature (referent din 2024);
- (49) BioNanoScience – Springer Nature (referent din 2024);
- (50) Drug Metabolism Review – Taylor & Francis (referent din 2025);
- (51) Biomolecules - MDPI (Switzerland) (referent din 2025);
- (52) Carbohydrate Polymers – Elsevier (ScienceDirect) (referent din 2025);
- (53) Applied Surface Science – Elsevier (referent din 2025);
- (54) ACS Applied Materials & Interface – American Chemical Society (ACS) (referent din 2025);
- (55) Physica Status Solidi A – Wiley (referent din 2025);
- (56) Nanoscale – Royal Society of Chemistry, UK (RSC-UK) (referent din 2025);

• **Invitat ca membru în societăți/asociații profesionale/științifice;**

- internaționale:

- (1) European Magnetism Association (2020);
- (2) American Nano Society (2011);
- (3) European Physical Society (EPS) (2011);
- (4) Membru în International Biographical Centre (IBC), Cambridge, England (“As a eminent professional in the field of science”) (2009);
- (5) U.K. Magnetism Society (2005);
- (6) Membership in the American Association for the Advancement of Science (AAAS) (“in recognition of standing in the greater scientific community”) (2003);

- naționale:

- (7) Societatea Română de Fizică (SRF) (reînscris în 2011);
- (8) Asociația Română de Materiale “Teodor Segărceanu” (2005);
- (9) Societatea Română de Materiale Magnetice (SRMM) (2005);

• **Alte elemente de recunoaștere:**

- **Editor (invitat) la reviste științifice din străinătate** (INT. J. MOLEC. SCI. (WoS, IF 6.208, zona rosie (Q1)), APPL. SCI. (WoS, IF 2.838, zona galbena (Q2)); Editorial Board: Journal of Nanoscience, Hindawi Publishing);
- **Editor (invitat) pentru cărți științifice în edituri internaționale** (WILEY, SPRINGER, CAMBRIDGE Publishing Scholars);
- **Editor (invitat) pentru volume științifice de cercetare în edituri internaționale** (WILEY, SPRINGER, MDPI-Switzerland);
- **Invitat pentru a scrie capitole în volume de cercetare științifică (internaționale)** (SPRINGER, WILEY, FRANCIS & TAYLOR);
- **Expert/evaluator ARACIS** (Registrul Național al Evaluatorilor (RNE) 2012);
- **Expert științific/evaluator proiecte de cercetare (internaționale:** Czech Science Foundation (GACR), CZECH); **naționale:** ANCS/CNCSIS, UEFISCDI);
- **Selected Paper:** I. Hrianca, C. Caizer, Z. Schlett, *Dynamic magnetic behavior of Fe₃O₄ colloidal nanoparticles* (source J. Appl. Phys. 92 (2002) 2125), **by the expert editors from American Institute of Physics (AIP) and American Physical Society (APS), for Virtual Journal of Nanoscale Science & Technology (Vir. J. Nan. Sci. & Techn., 6 (7) (2002);**

Conf. Dr. Habil. Caizer Costică

Timișoara, 29.05.2025

Anexe la CV:

- Lista de lucrări,
- Fișa standardelor academice CNATDCU – Fizică – UVT;

Conferențiar Dr. CAIZER Costică
Dr. Habil.
Conducător de Doctorat - Fizică

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<https://www.brainmap.ro/costica-caizer>

LISTA DE LUCRĂRI

(i) Lista de lucrări cele mai relevante pentru realizările profesionale proprii în domeniu

- **Book/Chapters (peer review) publicate în edituri internaționale de prestigiu recunoscute Web of Science (WOS);**

Book: ***Magnetic Nanoparticles in Human Health and Medicine***

WILEY, UK, 2022, 512 pages;

Editors: **Costică Caizer** and Mahendra Rai

Book Series: ***Nanobiotechnology in Medicine & Health Care***

- publicată **după dobândirea atestatului de abilitare;**

Chapter: ***Magnetic/ Superparamagnetic Hyperthermia as an Effective Noninvasive Alternative Method for Therapy of Malignant Tumors***

Chapter 15 in: ***Nanotheranostics: Applications and Limitations***

SPRINGER, 2019, pp. 297-335;

Author: **C. Caizer**

- publicat **după dobândirea atestatului de abilitare;**

Chapter: ***Nanoparticles Size Effect on Some Magnetic Properties***

Chapter in: ***Handbook of Nanoparticles***

SPRINGER, 2016, pp. 475-519;

Author: **C. Caizer**

- publicat **după dobândirea atestatului de abilitare;**
- citat (fără autocitări) de peste 40 ori în lucrări WOS;

- **Cărți/cursuri publicate în edituri recunoscute CNCSIS (cu referenți științifici și ISBN);**

Curs: ***Nano-biomagnetism***

Ed. Universității de Vest, Timișoara, 2010, 286 pag.; ISBN: 978-973-125-337-4

Autor: **C. Caizer**

Carte: ***Impulsuri electrice. Aplicații în circuite electrice, dispozitive electronice și magnetism tehnic***

MIRTON, Timișoara, 2007, 268 pag.; ISBN: 978-973-52-0064-0

Autor: **C. Caizer**

Curs: ***Nano-fluide magnetice***

Ed. Eurobit, Timișoara, 2004, 200 pag.; ISBN: 973-620-186-4;

Autor: **C. Caizer**

- **Articole de cercetare în extenso publicate în reviste WOS cu factor de impact (IF);**

Costica Caizer, Isabela Simona Caizer-Gaitan, Claudia Geanina Watz, Cristina Adriana Dehelean, Tiberiu Bratu and Codruta Soica, *High Efficacy on the Death of Breast Cancer Cells Using SPMHT with Magnetite Cyclodextrins Nanobioconjugates*, PHARMACEUTICS, 15(4) (2023) 1145 (pp. 1-20). **Impact Factor: 6,525, zona ROSIE (Q1 in Web of Science (WOS))**; Five Years Impact Factor: 7,227;

- publicată **după dobândirea atestatului de abilitare;**

Costica Caizer, Isabela Simona Caizer, Roxana Racoviceanu, Claudia Geanina Watz, Marius Mioc, Cristina Adriana Dehelean, Tiberiu Bratu, Codruta Soica, *The Fe₃O₄-PAA-(HP- γ -CDs) Biocompatible Ferrimagnetic Nanoparticles for Increasing Efficacy in Superparamagnetic Hyperthermia*, NANOMATERIALS, 12(15) (2022) 2577 (pp.1-28). **Impact Factor: 5,719, zona ROSIE (Q1)**; Five Years Impact Factor: 5,81;

- publicată după dobândirea atestatului de abilitare;

Costica Caizer, Isabela Simona Caizer, *Study on Maximum Specific Loss Power in Fe₃O₄ Nanoparticles Decorated with Biocompatible Gamma-Cyclodextrins for Cancer Therapy with Superparamagnetic Hyperthermia*, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 22(18) (2021) 10071 (pp. 1-22). **Impact Factor: 6,208, zona ROSIE (Q1)**; Five Years Impact Factor: 6,628;

- publicată după dobândirea atestatului de abilitare;

Costica Caizer, *Optimization study on specific loss power in superparamagnetic hyperthermia with magnetite nanoparticles for high efficiency in alternative cancer therapy*, NANOMATERIALS, 11(1) (2020) 40 (pp. 1-20); **Impact Factor: 5,719, zona ROSIE (Q1)**; Five Years Impact Factor: 5,81;

- publicată după dobândirea atestatului de abilitare;

M. Ștefănescu, **C. Caizer***, M. Stoia, O. Ștefănescu, *Ultrafine, perfectly spherical Ni-Zn ferrite nanoparticles, with ultranarrow distribution, isolated in a silica matrix, prepared by a novel synthesis method in the liquid phase*, ACTA MATERIALIA, 54 (2006) 1249 – 1256;

C. Caizer, *Deviation from Bloch law in the case of surfacted nanoparticles*, APPLIED PHYSICS A, 80 (2005) 1745 - 1751;

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C. Caizer, *Magnetic behaviour of $Mn_{0.6}Fe_{0.4}Fe_2O_4$ nanoparticles in ferrofluid at low temperatures*, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, 251 (2002) 304 – 315;

(ii) *Teza de Abilitare*

Titlu: *MAGNETIC PROPERTIES OF FERRIMAGNETIC NANOPARTICLES AND NANOCOMPOSITES WITH APPLICATION IN NANOBIO TECHNOLOGY*

- UNIVERSITATEA “AL. I. CUZA” IASI, sept. 2015;

(iii) *Teza de Doctorat*

Titlu: *COMPORTAREA MAGNETICĂ A SISTEMELOR DE NANOPARTICULE FERIMAGNETICE DISPERSE. APLICAȚII LA GENERAREA OSCILAȚIILOR DE RADIOFRECVENȚĂ DE PUTERE*

- cu cea mai înaltă distincție: *SUMMA CUM LAUDE*;
- UNIVERSITATEA DE VEST DIN TIMIȘOARA, 2003;

(iv) Lista cărților:

- peer review, în edituri internaționale recunoscute Web of Science;

1. Title: *Magnetic Nanoparticles in Human Health and Medicine*

WILEY, UK, 2022, 512 pages;

Editors: **Costică Caizer** and Mahendra Rai

Book Series: *Nanobiotechnology in Medicine & Health Care*

- publicată după dobândirea atestatului de abilitare;

- cu referenți științifici și ISBN, în edituri recunoscute CNCSIS;

2. Titlu: ***Bioelectromagnetism. Lucrări de laborator***

EUROBIT, Timișoara, 2013, 168 pag.; ISBN: 978-973-132-080-9

Autor: **C. Caizer**

3. Titlu: ***Fizică experimentală***

EUROBIT, Timișoara, 2012, 262 pag.; ISBN: 978-973-132-016-8

Autor: **C. Caizer**

4. Titlu: ***Nano-biomagnetism***

ED. UNIVERSITĂȚII DE VEST, Timișoara, 2010, 286 pag.; ISBN: 978-973-125-337-4

Autor: **C. Caizer**

5. Titlu: ***Impulsuri electrice. Aplicații în circuite electrice, dispozitive electronice și magnetism tehnic***

MIRTON, Timișoara, 2007, 268 pag.; ISBN: 978-973-52-0064-0

Autor: **C. Caizer**

6. Titlu: ***Sisteme de nanoparticule ferimagnetice disperse. Comportare magnetică***

ED. UNIVERSITĂȚII DE VEST, Timișoara, 2004, 166 pag.; ISBN: 973-8433-73-8

Autor: **C. Caizer**

7. Titlu: ***Nano-fluide magnetice***

EUROBIT, Timișoara, 2004, 200 pag.; ISBN: 973-620-186-4;

Autor: **C. Caizer**

8. Titlu: ***Electricitate și magnetism. Lucrări experimentale***

EUROBIT, Timișoara, 2004, 212 pag.; ISBN: 973-8181-38-0;

Autori: **C. Caizer, I. Hrianca**

- **volume de cercetare peer review in reviste ISI, în edituri internaționale recunoscute Web of Science (editate electronic);**

9. Title: ***Molecular Characterization and Applications of Nanomaterials in Nanomedicine and Cancer Therapy***

MDPI, Switzerland, 2025

Editor: **Costică Caizer**

Special Issue in: **INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES**
(ISI Web of Science, IF: 4.9, **zona ROȘIE** (Q1); CiteScore 8.1 (Q1))

Section: Molecular Nanoscience

- după dobândirea atestatului de abilitare;

10. Title: ***Nanoparticles in Nanobiotechnology and Nanomedicine: 2nd Edition***

MDPI, Switzerland, 2024-2025

Editor: **Costică Caizer**

Special Issue in: **INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES**
(ISI Web of Science, IF: 4.9, **zona ROȘIE** (Q1); CiteScore 8.1 (Q1))

Section: Molecular Nanoscience

- după dobândirea atestatului de abilitare;

11. Title: ***Nanoparticles in Nanobiotechnology and Nanomedicine***

MDPI, Switzerland, 2022-2023

Editor: **Costică Caizer**

Special Issue in: **INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES**
(ISI Web of Science, IF: 6,208, **zona ROȘIE**)

Section: Molecular Nanoscience

- după dobândirea atestatului de abilitare;

12. Title: ***Applications in Nanotechnology and Nanomedicine of Magnetic Nanomaterials***

MDPI, Switzerland, 2024-2025;

Editor: **Costică Caizer**

Special Issue in: **APPLIED SCIENCES - BASEL**

(ISI Web of Science, IF: 2,838, **zona GALBENĂ**)

Section: Nanotechnology and Applied Nanosciences

- **după dobândirea atestatului de abilitare;**

13. Title: ***Nano- and Biomagnetism***

MDPI, Switzerland, 2021;

Editor: **Costică Caizer**

Special Issue in: **APPLIED SCIENCES - BASEL**

(ISI Web of Science, IF: 2,838, **zona GALBENĂ**)

Section: Nanotechnology and Applied Nanosciences

- **după dobândirea atestatului de abilitare;**

(v) **Lista capitolelor de cărți**

- **peer review, în edituri internaționale de prestigiu, recunoscute Web of Science;**

1. Title: ***Magnetic/Superparamagnetic Hyperthermia in Clinical Trials for Noninvasive Alternative Cancer Therapy***

Chapter 18 in: **Magnetic Nanoparticles in Human Health and Medicine**

WILEY, UK, 2022, pp. 430-463;

Author: **C. Caizer**

- **publicat după dobândirea atestatului de abilitare;**

2. Title: ***Magnetic Nanoparticles in Alternative Tumors Therapy: Biocompatibility, Toxicity, and Safety Compared with Classical Methods***

Chapter 16 in: **Magnetic Nanoparticles in Human Health and Medicine**

WILEY, UK, 2022, pp. 355-379;

Author: **C. Caizer**, Mahendra Rai

- **publicat după dobândirea atestatului de abilitare;**

3. Title: ***Classical Magnetoliposomes vs. Current Magnetocyclodextrins with Ferrimagnetic Nanoparticles for High Efficiency and Low Toxicity in Noninvasive Alternative Therapy of Cancer by Magnetic/ Superparamagnetic Hyperthermia***
Chapter 13 in: **Magnetic Nanoparticles in Human Health and Medicine**
WILEY, UK, 2022, pp. 272-306;
Author: **C. Caizer**, Cristina Dehelean, Codruța Șoica
- publicat după dobândirea atestatului de abilitare;
4. Title: ***An introduction to magnetic nanoparticles: from bulk to nanoscale magnetism and their applicative potential in human health and medicine***
Chapter 1 in: **Magnetic Nanoparticles in Human Health and Medicine**
WILEY, UK, 2022, pp. 1-34;
Author: **C. Caizer**, Shital Bonde, Mahendra Rai
- publicat după dobândirea atestatului de abilitare;
5. Title: ***Magnetic Nanoparticle Nanoformulations for Alternative Therapy of Cancer by Magnetic/ Superparamagnetic Hyperthermia***
Chapter in: **Nanoformulations in Human Health**
SPRINGER, 2020, pp. 503-530;
Author: **C. Caizer**, Cristina Dehelean, Dorina Coricovac, Isabela Caizer, Codruța Șoica
- publicat după dobândirea atestatului de abilitare;
6. Title: ***Magnetic/ Superparamagnetic Hyperthermia as an Effective Noninvasive Alternative Method for Therapy of Malignant Tumors***
Chapter 15 in: **Nanotheranostics: Applications and Limitations**
SPRINGER, 2019, pp. 297-335;
Author: **C. Caizer**
- publicat după dobândirea atestatului de abilitare;

7. Title: ***Magnetic Anisotropy of Nanocomposites Made of Magnetic Nanoparticles Dispersed in Solid Matrices***

Chapter in: **Advances in Nanostructured Composites**

TAYLOR & FRANCIS – CRC Press, vol. I, 2019, pp. 245-276;

Author: **C. Caizer**

- publicat după dobândirea atestatului de abilitare;

8. Title: ***Magnetic Hyperthermia-Using Magnetic Metal /Oxide Nanoparticles with Potential in Cancer Therapy***

Chapter in: **Metal Nanoparticles in Pharma**

SPRINGER, 2017, pp. 193-218;

Author: **C. Caizer**

- publicat după dobândirea atestatului de abilitare;

9. Title: ***Biocompatible Magnetic Oxide Nanoparticles with Metal Ions Coated with Organic Shell as Potential Therapeutic Agents in Cancer***

Chapter in: **Metal Nanoparticles in Pharma**

SPRINGER, 2017, pp. 219-256;

Author: **C. Caizer**, Alice-Sandra Buteica, Ioan Mindrila

- publicat după dobândirea atestatului de abilitare;

10. Title: ***Nanoparticles size effect on some magnetic properties***

Chapter in: **Handbook of Nanoparticles;**

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Author: **C. Caizer**

- publicat după dobândirea atestatului de abilitare;

(vi) Lista articolelor ISI în extenso publicate în reviste WoS (cu factor de impact)

- [1] Isabela-Simona Caizer-Gaitan, Claudia-Geanina Watz, **Costica Caizer***, Cristina-Adriana Dehelean, Tiberiu Bratu, Zorin Crainiceanu, Adina Coroaba, Mariana Pinteala, and Codruta-Marinela Soica, *In Vitro Superparamagnetic Hyperthermia Employing Magnetite Gamma-Cyclodextrin Nanobioconjugates for Human Squamous Skin Carcinoma Therapy*, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 25, 8380, 2024 (pp. 1-25). **Impact Factor: 4.9, zona ROSIE (Q1 in Web of Science (WoS)); CiteScore 8.1 (Q1);**
- publicat după dobândirea atestatului de abilitare;
- [2] **Costica Caizer**, Isabela Simona Caizer-Gaitan, Claudia Geanina Watz, Cristina Adriana Dehelean, Tiberiu Bratu and Codruta Soica, *High Efficacy on the Death of Breast Cancer Cells Using SPMHT with Magnetite Cyclodextrins Nanobioconjugates*, PHARMACEUTICS, 15(4) (2023) 1145 (pp. 1-20). **Impact Factor: 6.525, zona ROSIE (Q1 in Web of Science (WOS));** Five Years Impact Factor: 7,227;
- publicat după dobândirea atestatului de abilitare;
- [3] **Costica Caizer**, Isabela Simona Caizer, Roxana Racoviceanu, Claudia Geanina Watz, Marius Mioc, Cristina Adriana Dehelean, Tiberiu Bratu, Codruta Soica, *The Fe₃O₄-PAA-(HP- γ -CDs) Biocompatible Ferrimagnetic Nanoparticles for Increasing Efficacy in Superparamagnetic Hyperthermia*, NANOMATERIALS, 12(15) (2022) 2577 (pp.1-28). **Impact Factor: 5.719, zona ROSIE (Q1);** Five Years Impact Factor: 5,81;
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- [4] Isabela Simona Caizer, **Costica Caizer**, *Superparamagnetic Hyperthermia Study with Cobalt Ferrite Nanoparticles Covered with γ -Cyclodextrins by Computer Simulation for Application in Alternative Cancer Therapy*, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 23(8) (2022) 4350 (pp. 1-25). **Impact Factor: 6,208, zona ROSIE (Q1);** Five Years Impact Factor: 6,628;
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- [5] **Costica Caizer**, *Computational Study Regarding CoxFe₃-xO₄ Ferrite Nanoparticles with Tunable Magnetic Properties in Superparamagnetic Hyperthermia for Effective Alternative Cancer Therapy*, NANOMATERIALS, 11(12) (2021) 3294 (pp. 1-20). **Impact Factor: 5,719, zona ROSIE (Q1);** Five Years Impact Factor: 5,81;
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- [6] **Costica Caizer**, Isabela Simona Caizer, *Study on Maximum Specific Loss Power in Fe₃O₄ Nanoparticles Decorated with Biocompatible Gamma-Cyclodextrins for Cancer Therapy with Superparamagnetic Hyperthermia*, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 22(18) (2021) 10071 (pp. 1-22). **Impact Factor: 6,208**, **zona ROSIE (Q1)**; Five Years Impact Factor: 6,628;
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- [7] **Costica Caizer**, *Specific Loss Power and Heating Temperature in CoFe₂O₄ Nanoparticles as Possible Candidate for Alternative Cancer Therapy by Superparamagnetic Hyperthermia*, APPLIED SCIENCES, 11(12) (2021) 5505 (pp. 1-22); **Impact Factor: 2.838**, **zona GALBENA (Q2)**; Five Years Impact Factor: 2,921;
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- [8] **Costica Caizer**, *Optimization study on specific loss power in superparamagnetic hyperthermia with magnetite nanoparticles for high efficiency in alternative cancer therapy*, NANOMATERIALS, 11(1) (2020) 40 (pp. 1-20); **Impact Factor: 5,719**, **zona ROSIE (Q1)**; Five Years Impact Factor: 5,81;
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- [9] **C. Caizer**, *Computational study on superparamagnetic hyperthermia with biocompatible SPIONs to destroy the cancer cells*, JOURNAL OF PHYSICS (IOP) (J. Phys.: Conf. Ser. 521 (2014) 012015).
- [10] M. Stoia, **C. Caizer**, M. Ștefănescu, P. Barvinschi, L. Barbu-Tudoran, *Structure, morphology and magnetic properties of Ni,Zn ferrite/ silica nanocomposites with different compositions*, JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY (J. Sol-Gel Sci. Techn., 58 (2011) 126);
- [11] M. Ștefănescu, M. Stoia, **C. Caizer**, T. Dippong, P. Barvinschi, *Preparation of Co_xFe_{3-x}O₄ nanoparticles by thermal decomposition of some organo-metallic precursors*, JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY (J. Therm. Anal. Calorim., 97 (2009) 245);
- [12] M. Ștefănescu, M. Stoia, **C. Caizer**, O. Ștefănescu, *Preparation of x(Ni_{0.65}Zn_{0.35}Fe₂O₄)/ (1-x)SiO₂ nanocomposite powders by a modified sol-gel method*, MATERIALS CHEMISTRY AND PHYSICS (Mater. Chem. Phys., 113 (2009) 342 – 348);

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- [15] **C. Caizer**, V. Tura, *Magnetic relaxation/stability of Co ferrite nanoparticles embedded in amorphous silica particles*, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS (J. Magn. Mater., 301 (2006) 513 – 520);
- [16] M. Ștefănescu, **C. Caizer**, M. Stoia, O. Ștefănescu, *Ultrafine, perfectly spherical Ni-Zn ferrite nanoparticles, with ultranarrow distribution, isolated in a silica matrix, prepared by a novel synthesis method in the liquid phase*, ACTA MATERIALIA (Acta Mater., 54 (2006) 1249 – 1256);
- [17] **C. Caizer**, *The effect of external magnetic field on the thermal relaxation of magnetization*, JOURNAL OF PHYSICS: CONDENSED MATTER (J. Phys.: Condens. Matter 17 (2005) 2019 – 2034);
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- [19] **C. Caizer**, *Deviation from Bloch law in the case of surfacted nanoparticles*, APPLIED PHYSICS A (Appl. Phys. A, 80 (2005) 1745 - 1751);
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- [21] **C. Caizer**, M. Popovici, C. Savii, *Spherical $(\text{Zn}_\delta\text{Ni}_{1-\delta}\text{Fe}_2\text{O}_4)_\gamma$ nanoparticles in an amorphous $(\text{SiO}_2)_{1-\gamma}$ matrix, prepared with the sol-gel method*, ACTA MATERIALIA (Acta. Mater., 51 (2003) 3607 – 3616);

- [22] **C. Caizer**, *Saturation magnetization of $\gamma\text{-Fe}_2\text{O}_3$ nanoparticles dispersed in a silica matrix*, PHYSICA B (Physica B, 327 (2003) 27 – 33);
- [23] **C. Caizer**, *Structural and magnetic properties of nanocrystalline $\text{Zn}_{0.65}\text{Ni}_{0.35}\text{Fe}_2\text{O}_4$ powder obtained from heteropolynuclear complex combination*, MATERIALS SCIENCE & ENGINEERING B – SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY (Mat. Sci. Eng. B, 100 (2003) 63);
- [24] **C. Caizer**, I. Hrianca, *Dynamic magnetization of $\gamma\text{-Fe}_2\text{O}_3$ nanoparticles isolated in an SiO_2 amorphous matrix*, EUROPEAN PHYSICAL JOURNAL B (Eur. Phys. J. B, 31 (2003) 391 – 400);
- [25] **C. Caizer**, I. Hrianca, *Temperature dependence of saturation magnetization of $\gamma\text{-Fe}_2\text{O}_3/\text{SiO}_2$ magnetic nanocomposite*, ANNALEN DER PHYSIK (Ann. Phys. 12 (2003) 115 – 122);
- [26] **C. Caizer**, M. Ștefănescu, *Nanocrystallite size effect on σ_s and H_c in nanoparticle assemblies*, PHYSICA B (Physica B, 327 (2003) 129 – 134);
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- [28] M. Popovici, C. Savii, D. Niznansky, J. Subrt, J. Bohacek, **C. Caizer**, C. Enache, C. Ionescu, *Nanocrystalline Ni-Zn ferrites prepared by sol-gel method*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS (J. Optoelectron. Adv. M., 5 (2003) 251 – 256);
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Selected Paper (source J. Appl. Phys. 92 (2002) 2125) by the expert editors from American Institute of Physics (AIP) and American Physical Society (APS).

- [31] **C. Caizer**, *Thermal dependence of the saturation magnetisation of $Mn_{0.6}Fe_{0.4}Fe_2O_4$ nanoparticles in a ferrofluid*, SOLID STATE COMMUNICATION (Solid State Commun., 124 (2002) 52;
- [32] C. Savii, M. Popovici, C. Enache, J. Subrt, D. Niznansky, S. Bakardzieva, **C. Caizer**, I. Hrianca, *$Fe_2O_3 - SiO_2$ composites obtained by sol-gel synthesis*, SOLID STATE IONICS (Solid State Ionics, 151 (2002) 219 – 227);
- [33] R. Kohnlechner, Z. Schlett, M. Lungu, **C. Caizer**, *A new wet eddy-current separator*, RESOURCES CONSERVATION & RECYCLING (Resour. Conserv. Recy., 37 (2002) 55 – 60);
- [34] **C. Caizer**, M. Ștefănescu, *Magnetic Characterization of Nanocrystalline Ni-Zn Ferrite Powder Prepared by the Glyoxylate Precursor Method*, JOURNAL OF PHYSICS D: APPLIED PHYSICS (J. Phys. D: Appl. Phys., 35 (2002) 3035 – 3040);
- [35] **C. Caizer**, *Magnetic behaviour of $Mn_{0.6}Fe_{0.4}Fe_2O_4$ nanoparticles in ferrofluid at low temperatures*, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS (J. Magn. Magn. Mater., 251 (2002) 304 – 315);
- [36] **C. Caizer**, M. Ștefănescu, C. Muntean, I. Hrianca, *Studies and magnetic properties of Ni-Zn ferrite synthesis from the glyoxylates complex combination*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS (J. Optoelectron. Adv. M., 3 (2001) 919 – 924);
- [37] I. Hrianca, **C. Caizer**, *Researches regarding load adaptation of a radiofrequency generator working in pulses*, ROMANIAN JOURNAL OF PHYSICS (Rom. Journ. Phys., 46 (2001) 139 – 149);
- [38] I. Hrianca, **C. Caizer**, C. Savii, M. Popovici, *Magnetic and structural properties of $\gamma-Fe_2O_3$ nanoparticles dispersed in a silica matrix*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS (J. Optoelectron. Adv. M., 2 (2000) 634 – 638);

(vii) Lista publicațiilor în extenso apărute în lucrări ale principalelor conferințe internaționale de specialitate

1. **C. Caizer**, I.S. Caizer, C. Soica, R. Racoviceanu, M. Mihoc, *The (Co-Fe)_f ferrite biocompatible magnetic nanoparticles for increasing efficacy and reducing toxicity in superparamagnetic hyperthermia for alternative cancer therapy*, **13th International Conference on Physics of Advanced Materials (ICPAM-13)**, September 24–30, 2021, Sant Feliu de Guixols, Spain. Contribution: Abstract Book, pp. 47–49.
 - publicată în NANOMATERIALS, 12(15) (2022) 2577 (pp.1-28);
 - **publicat după dobândirea atestatului de abilitare;**
2. **C. Caizer**, *SPMHT with biocompatible SPIONs for destroy the cancer cells*, **The 8th International Conference on Fine Particle Magnetism (ICFPM-2013)**, June 24-27, 2013, Perpignan, FRANCE. Contribution: p. 129.
 - publicată în JOURNAL OF PHYSICS: CONFERENCE SERIES (IOP) 521 (2014) 012015 (pp. 1-4);
3. M. Ștefănescu, M. Stoia, **C. Caizer**, T. Dippong, P. Barvinschi, *Preparation of Co_xFe_{3-x}O₄ nanoparticles by thermal decomposition of some organo-metallic precursors*, **14-th International Conference on Thermal Analysis and Calorimetry**, 14 – 18 September, 2008, São Pedro, BRAZIL. Contribution: H07, p. 71.
 - publicată în JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY 97 (2009) 245-250;
3. **C. Caizer**, M. Ștefănescu, M. Stoia, P. Barvinschi, I. Hrianca, *Advanced nanocomposites of Ni₂Zn ferrite – amorphous silica, obtained by means of a new sol-gel method: magnetic behaviour*, **International Conference on Fine Particles Magnetism (ICFPM-07)**, October 9-12, 2007, Rome, ITALY. Contribution: PA36, p. 128.
 - publicată ulterior în MATERIALS CHEMISTRY AND PHYSICS 113 (2009) 342-348;
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 - publicată ulterior în ANN. WEST UNIV. TIMISOARA, CHEM. 16(4) (2007) 87-94.

5. M. Stoia, **C. Caizer**, M. Ștefănescu, P. Barvinschi, *Obtaining of $(\text{Ni}_{0.65}\text{Zn}_{0.35}\text{Fe}_2\text{O}_4)_x-(\text{SiO}_2)_{100-x}$* , **9th European Symposium on Thermal Analysis and Calorimetry (ESTAC 9)**, Crakow, POLAND, 28 – 31 August, 2006.
 - publicată în JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY 88 (2007) 193-200;
6. M. Ștefănescu, **C. Caizer**, M. Stoia, O. Ștefănescu, *Studies on the synthesis of Ni,Zn ferrite/SiO₂ nanocomposites trough a modified sol-gel method*, **Romanian International Conference on Chemistry and Chemical Engineering (RICCCE XIV)**, 22-24 Sept., 2005, Bucharest. Contribution: O-S02, p. 48.
 - publicată ulterior în JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 7 (2005) 607-614;
7. **C. Caizer**, V. Tura, *Magnetic relaxation in Co ferrite nanoparticles covered with amorphous silica and dispersed in water*, **7th International Conference on Physics of Advanced Materials (ICPAM-7)**, June 10 - 12, 2004, Iași, Romania. Contribution: Section 3: Magnetic Properties, P–III.9, p. 28.
 - publicata ulterior in JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 301 (2006) 513 – 520;
8. M. Ștefănescu, **C. Caizer**, M. Stoia, O. Ștefănescu, *Ni,Zn/SiO₂ ferrite nanocomposites prepared by an improved sol-gel method and their characterisation*, **7th International Conference on Physics of Advanced Materials (ICPAM 7)**, June 10 - 12, 2004, Iași, Romania. Contribution: Section 1: Processing and Characterization, O-I.3, p. 13.
 - publicata in JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 7 (2005) 607 – 614;
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nanoparticles – synthesis, characterization and magnetic hyperthermia application, **TIM 20-21 Physics Conference**, November 11th-13th, 2021, Timisoara, Romania. Abstract Book: API-O12

43. **C. Caizer**, *Study on optimisation of superparamagnetic hyperthermia in biocompatible nanoparticles*, Invited Speaker: **3rd Romanian Conference on Medical Physics**, 22-23 Sept., Sibiu, Romania, 2012. Contribution: I4, Plenary Lecturer.
44. **C. Caizer**, C. Dehelean, C. Soica, P. Vlazan, *Specific loss power and toxicity in biocompatible SPIONs for cancer therapy using superparamagnetic hyperthermia*, **Physics Conference (TIM-12)**, 27-30 Nov., Timisoara, Romania, 2012.
45. **C. Caizer**, M. Ștefănescu, M. Stoia, P. Barvinschi, I. Hrianca, *The temperature and ferrite/silica ratio effect on the magnetic behavior of $\gamma(\text{Zn}_{0.35}\text{Ni}_{0.65}\text{Fe}_2\text{O}_4)-(1-\gamma)\text{SiO}_2$ nanocomposites*, **The 5th National Conference “New Research Trends in Materials Science” (ARM-5)**, 5-7 Sept., Sibiu, România, 2007. Contribution: 5-133.
46. **C. Caizer**, I. Hrianca, V. Ciupina, G. Prodan, *The structural and magnetic characterization of 5-6 nm soft nanoparticles, surfacted and dispersed in liquid matrix*, **The 5th National Conference “New Research Trends in Materials Science” (ARM-5)**, 5-7 Sept., Sibiu, România, 2007. Contribution: 5-132.
47. **C. Caizer**, *Magnetic behavior of $(\text{Ni}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4)_y(\text{SiO}_2)_{1-y}$* , **Sesiunea Anuala de Comunicari Stiintifice a Facultatii de Fizica**, 29-30 Sept. 2002. Contributie: MMM-27.
48. **C. Caizer**, M. Popovici, C. Savii, *Method for obtaining spherical nanoparticles of nickel-zinc ferrite in an silica matrix and their magnetic characterization*, **Sesiunea Anuala de Comunicari Stiintifice a Facultății de Fizică** (cu participare internațională), 29-30 Sept., Timișoara, 2002. Contributie: O.21.
49. **C. Caizer**, I. Hrianca, M. Popovici, C. Savii, *Magnetic behavior at low temperatures of $\gamma\text{-Fe}_2\text{O}_3$ nanoparticles dispersed in silica matrix*, **Sesiunea Anuală de Comunicări Științifice a Facultății de Fizică**, 23-24 Nov., Timișoara, 2001. Contribution: O.18.

50. **C. Caizer**, *PC Fourier analysis in order to establish the parameters of load adaptation to a RF impulse generator*, **Sesiunea Anuală de Comunicări Științifice a Facultății de Fizică**, 23-24 Nov., Timișoara, 2001. Contribution: MMM-19.
51. I. Hrianca, **C. Caizer**, *Asupra stratului nemagnetic de la suprafața nanoparticulelor de ferită*, **Lucrare Invitată: Sesiunea Anuală de Comunicări Științifice a Facultății de Fizică** (cu participare internațională), 29-30 Sept. Timișoara, 2002. Contributie: I.11.
52. I. Hrianca, I. Mălăescu, **C. Caizer**, *Procese de relaxare magnetică în sisteme de particule nanometrice cu ordonare ferimagnetică*, **Lucrare Invitată: Sesiunea Anuală de Comunicări Științifice a Facultății de Fizică**, 23-24 Nov., 2001, Timișoara. Contribuție: I.07.
53. **C. Caizer**, *Zero field cooled magnetization of Fe_3O_4 monodispersed nanoparticles*, **Sesiunea Anuală de Comunicări Științifice a Facultății de Fizică**, 23-24 Nov., Timișoara, 2001. Contribution: MMM-20.
54. **C. Caizer**, I. Hrianca, M. Popovici, C. Savii, *Magnetic Characterisation of Nanoparticles Prepared by Sol-Gel Method Using TEOS and $FeCl_3$* , **National Physics Conference**, September 21 – 23, 2000, Constanța. Contribution: Condensed Matter Physics, p. 48.
55. **C. Caizer**, I. Hrianca, M. Ștefănescu, C. Muntean, *A New Method for Obtaining Fine and Ultrafine Particles (Ni-Zn) Ferrite*, **National Physics Conference**, September 21 – 23, 2000, Constanța. Contribution: Condensed Matter Physics, p. 49.
56. **C. Caizer**, I. Hrianca, M. Ștefănescu, *Influența concentrației ionilor de Zn^{2+} asupra proprietăților magnetice ale particulelor ultrafine de $(Ni-Zn)Fe_2O_4$* , **Sesiunea Anuală de Comunicări Științifice**, 25 – 26 mai, Oradea, 2000. Contribuție: Secțiunea 2, Fizica materiei condensate.
57. I. Hrianca, **C. Caizer**, C. Savii, M. Popovici, *Proprietăți magnetice ale nanoparticulelor de $(Zn_xNi_{1-x}Fe_2O_4)_y$ dispersate în matrice amorfă de $(SiO_2)_{1-y}$* , **Sesiunea Anuală de Comunicări Științifice**, 25 - 26 mai, Oradea, 2000. Contribuție: Secțiunea 2, Fizica materiei condensate.
58. M. Ștefănescu, **C. Caizer**, C. Muntean, I. Hrianca, *Studiul prin analiză termică diferențială și difractometrie X al feritei de Ni-Zn obținută din complecși de tip glioxilat*, **Sesiunea Anuală de Comunicări Științifice**, 25 – 26 mai, Oradea, 2000. Contribuție: Secțiunea 2, Fizica materiei condensate.

59. I. Hrianca, **C. Caizer**, M. Ștefănescu, C. Muntean, *The Effect of Successive Thermal Treatment on Magnetic and Structural Properties of Mixed Ferrite Powder $Zn_x^{2+}Fe_{1-x}^{3+}[Ni_{1-x}^{2+}Fe_{1+x}^{2+}]O_4^{2-}$* , **The 3rd Conference on Condensed Matter Physics (FMC '99)**, September, 17-19th, Timișoara, 1999. Contribution: P1-67.
60. I. Hrianca, I. Mălăescu, **C. Caizer**, N. Ștefu, S. Novaconi, *Magnetic Properties of Magnetic Particles Processed in Inductive Plasma*, **The 3rd Conference on Condensed Matter Physics, (FMC '99)**, September, 17-19th, Timișoara, 1999. Contribution: P1-49.
61. I. Hrianca, **C. Caizer**, *Cercetări privind adaptarea la sarcină a unui generator de RF funcționând în regim de impulsuri*, **Al doilea Simpozion de Fizica Materiei Condensate**, 23 mai, 1997, Timișoara.
62. I. Hrianca, **C. Caizer**, *Instalație pentru studiul feritelor cu ciclul de histerezis dreptunghiular (CHD) în regim de impulsuri cu durată de ordinul nanosecundelor*, **Sesiunea Anuală de Comunicări Științifice**, Univ. Oradea, 29 mai - 30 iunie, 1997, Oradea. Contribuție: Secțiunea Fizică.
63. I. Hrianca, **C. Caizer**, *Studiul transferului de putere de la un generator de RF în regim de impulsuri*, **Sesiunea Anuală de Comunicări Științifice**, Univ. Oradea, 30 mai - 1 iunie, 1996, Oradea. Contribuție: Secțiunea Fizică.
64. I. Hrianca, **C. Caizer**, *Generator în trenuri de undă cu tranzistoare bipolare de comutație*, **Simpozionul "Fizica Materiei Condensate: Materiale Optic-Nelineare"**, 25-26 mai, Timișoara, 1995.

Conf. Dr. Habil. CAIZER Costică

Timișoara, 29.05.2025



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**IDENTITY
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COSTICĂ

Cetățenie/Nationalite/Nationality

Română / ROU

Loc naștere/Lieu de naissance/Place of birth

Jud.GL Com.Drăgănești

Domiciliu/Adresse/Address

Jud.TM Sat.Dumbrăvița (Com.Dumbrăvița)

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Conf. Dr. Habil. CAIZER Costică
Facultatea de Fizică - UVT
Conducător de Doctorat - Fizică

FIȘA DE VERIFICARE

a îndeplinirii standardelor minime CNATDCU – Fizică – UVT
necesare și obligatorii pentru Abilitare/Profesor
– domeniul FIZICĂ –

Sinteză privind

gradul de îndeplinire a standardelor academice
CNATDCU – Fizică - UVT pentru Abilitare/Profesor

Activități *	Punctaje necesare pentru Abilitare/Profesor	Punctaje și gradul de îndeplinire realizate de Conf. Caizer Costică
A	≥ 2	21,360; 1.068,00%
I	≥ 4	13,979; 349,48%
P	≥ 4	20,584; 514,60%
C	≥ 40	497,988; 1.244,97%
h	≥ 10	17; 170%
Punctaj total $T=A+(I/2+P/2)+ (C/20+h/5)$	≥ 12	66,941; 557,84%

Gradul de îndeplinire a standardelor realizat de subsemnatul: 557,84%;

* Activități conform Fișei de verificare a standardelor CNATDCU – Fizică – UVT;

A: Activitatea didactică și profesională;

I, P: Activitatea de cercetare (I: articole științifice originale *în extenso* ISI ca autor; P: articole științifice originale *în extenso* ISI ca prim autor sau autor corespondent);

C, h: Recunoașterea impactului activității (C: citări în reviste științifice ISI sau în cărți WoS; h: indicele Hirsch (WoS));

Precizări:

1. **AIS_i** este scorul de influență absolut al revistei științifice în care a fost publicat articolul **i** , corespunzător anului de publicare al acestuia conform cu www.eigenfactor.org pentru articolele publicate până în 2006 și Journal Citation Report (ISI Web of Science) începând cu anul 2007; în cazul în care anul de publicare nu se găsește în baza de date, se va alege anul cel mai apropiat.

2. n_i^{ef} reprezintă numărul efectiv de autori ai itemului i și ia următoarele valori: n_i , dacă $n_i \leq 5$; $(n_i + 5)/2$, dacă $5 < n_i \leq 15$; $(n_i + 15)/3$, dacă $15 < n_i \leq 75$; și $(n_i + 45)/4$, dacă $n_i > 75$, unde n_i este numărul de autori ai itemului i . În cazul publicațiilor HEPP (High Energy Particle Physics) cu număr mare de autori, dacă articolul are la bază o notă internă a experimentului la care candidatul este coautor, atunci n_i^{ef} poate fi dat de numărul de autori din nota internă.
3. Indicele Hirsch h se definește astfel: un autor are un indice Hirsch h dacă a publicat h articole care au fost citate fiecare de cel puțin h ori. Pentru calcularea indicelui Hirsch se va folosi baza de date ISI Web of Science.
4. Lucrările de tip "Article. Proceedings paper" pot fi considerate la punctele 1.6 sau 2, o singură dată, la alegerea candidatului.
5. Editurile recunoscute Web of Science se găsesc pe site-ul Web of Science – Master Book List- Publishers (<http://wokinfo.com/mbl/publishers/>)

Se recomandă ca fiecare candidat să își creeze un cont pe ResearcherID pentru facilitarea verificării datelor privind activitatea de cercetare și recunoașterea impactului activității.

CONȚINUT:

I. Activitatea didactică și profesională

A2 - Capitole de cărți în edituri internaționale recunoscute *Web of Science* în calitate de autor/ Review-uri în reviste cotate ISI

Nr. crt.	Titlul capitolului - titlul cărții / titlul Review-ului	Autori	Editura, an / revista, an, pagini, link	Punctaj $1/n_i^{ef}$
1	Magnetic/Superparamagnetic hyperthermia in clinical trials for non-invasive alternative cancer therapy Chapter 18, In: <i>Magnetic Nanoparticles in Human Health and Medicine</i> Book Series: Nanobiotechnology in Medicine & Health Care Costica Caizer and Mahendra Rai (Eds.), WILEY, UK, 2022 Link: https://onlinelibrary.wiley.com/doi/book/10.1002/9781119754725	Costică Caizer	WILEY, UK 2021-2022 (2021 – electronic; 2022 – print) Link: https://onlinelibrary.wiley.com/doi/10.1002/9781119754725.ch18	1
2	Magnetic Nanoparticles in Alternative Tumors Therapy: Biocompatibility, Toxicity and Safety Compared with Classical Methods Chapter 16, In: <i>Magnetic Nanoparticles in Human Health and Medicine</i>	Costică Caizer, Mahendra Rai	WILEY, UK 2021-2022 (2021 – electronic; 2022 – print) Link: https://onlinelibrary.wiley.com/doi/10.1002/9781119754725.ch16	0,5

	Book Series: Nanobiotechnology in Medicine & Health Care Costica Caizer and Mahendra Rai (Eds.), WILEY, UK, 2022			
3	Classical Magnetoliposomes vs Current Magnetocyclodextrins with Ferrimagnetic Nanoparticle for High Efficiency and Low Toxicity in Alternative Therapy of Cancer by Magnetic /Superparamagnetic Hyperthermia Chapter 13, In: <i>Magnetic Nanoparticles in Human Health and Medicine</i> Book Series: Nanobiotechnology in Medicine & Health Care Costica Caizer and Mahendra Rai (Eds.), WILEY, UK, 2022	Costică Caizer, Cristina Dehelean, Codruța Șoica	WILEY, UK 2021-2022 (2021 – electronic; 2022 – print) <i>Link:</i> https://onlinelibrary.wiley.com/doi/10.1002/9781119754725.ch13	0,333
4	An introduction to magnetic nanoparticles: from bulk to nanoscale magnetism and their applicative potential in human health and medicine Chapter 1, In: <i>Magnetic Nanoparticles in Human Health and Medicine</i> Book Series: Nanobiotechnology in Medicine & Health Care Costica Caizer and Mahendra Rai (Eds.), WILEY, UK, 2022	Costică Caizer, Shital Bonde, Mahendra Rai	WILEY, UK 2021-2022 (2021 – electronic; 2022 – print) <i>Link:</i> https://onlinelibrary.wiley.com/doi/abs/10.1002/9781119754725.ch1	0,333
5	Magnetic Nanoparticle Nanoformulations for Alternative Therapy of Cancer by Magnetic/ Superparamagnetic Hyperthermia	Costică Caizer, Cristina Dehelean, Dorina Coricovac, Isabela Caizer, Codruța Șoica	SPRINGER, 2020 pp 503-530; <i>Link:</i> https://link.springer.com/chapter/10.1007/978-3-030-41858-8_22	0,2
6	Magnetic/Superparamagnetic Hyperthermia as an Effective Noninvasive Alternative Method for Therapy of Malignant Tumors Chapter in: <i>Nanotheranostics: Applications and Limitations</i>	Costica Caizer	SPRINGER, 2019 pp 297-335; <i>Link:</i> https://link.springer.com/chapter/10.1007/978-3-030-29768-8_14	1

7	Magnetic Anisotropy of Nanocomposites Made of Magnetic Nanoparticles Dispersed in Solid Matrices Chapter 11 in: <i>Advances in Nanostructured Composites</i> (Mahmood Aliofkhazraei (Ed.)) ISBN 9781482236637 pp. 245-	Costica Caizer	TAYLOR & FRANCIS -CRC Press, 2019 Link: https://www.taylorfrancis.com/chapters/edit/10.1201/9781315118406-11/magnetic-anisotropy-nanocomposites-made-magnetic-nanoparticles-dispersed-solid-matrices-costica-caizer	1
8	Magnetic Hyperthermia - Using Magnetic Metal Nanoparticles with Potential in Cancer Therapy Chapter in: <i>Metal and Metal Nanoparticles in Pharma</i> (Mahendra Rai and Ranjita Shegokar (Eds.)) Print ISBN 978-3-319-63789-1 pp. 193-218	Costica Caizer	SPRINGER, 2017 Link: https://link.springer.com/chapter/10.1007/978-3-319-63790-7_10	1
9	Biocompatible Oxide Magnetic Nanoparticles with Metal Ions as Potential Therapeutic in Cancer , Chapter in: <i>Metal and Metal Nanoparticles in Pharma</i> (Mahendra Rai and Ranjita Shegokar (Eds.)) Print ISBN 978-3-319-63789-1 pp. 219-256	Costica Caizer, Alice-Sandra Buteica, Ioan Mindrila	SPRINGER, 2017 Link: https://link.springer.com/chapter/10.1007/978-3-319-63790-7_11	0,333
10	Nanoparticles Size Effect on Some Magnetic Properties , Chapter in: <i>Handbook of Nanoparticles</i> (Mahmood Aliofkhazraei (Ed.)) Print ISBN 978-3-319-15337-7 pp. 475-519	Costica Caizer	SPRINGER, 2016 Link: https://link.springer.com/referenceworkentry/10.1007/978-3-319-15338-4_24	1
Punctaj total indicator A ₂				6,699

A3 - Cărți în edituri internaționale recunoscute *Web of Science* în calitate de editor

Nr. crt.	Titlul	Editori	Editura, an, link (dacă este cazul)	Punctaj 0,5/n _i ^{ef}
1	<i>Molecular Characterization and Applications of Nanomaterials in Nanomedicine and Cancer Therapy</i>	Costică Caizer	MDPI, Switzerland, 2025 (electronic) Link:	0,5

	Special Issue in: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES (ISI Web of Science, IF: 4.9, zona ROȘIE (Q1); CiteScore 8.1 (Q1)) Section: Molecular Nanoscience		https://www.mdpi.com/journal/ijms/special_issues/I7P071CC71	
2	<i>Nanoparticles in Nanobiotechnology and Nanomedicine: 2nd Edition</i> Special Issue in INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES (ISI Web of Science, IF: 4.9, zona ROȘIE (Q1)), Section: Molecular Nanoscience	Costica Caizer	MDPI, Switzerland, 2024-2025 (electronic) Link: https://www.mdpi.com/journal/ijms/special_issues/34J4DC97P8	0,5
3	<i>Applications in Nanotechnology and Nanomedicine of Magnetic Nanomaterials</i> Special Issue in APPLIED SCIENCES-BASEL (ISI Web of Science, IF: 2.5, zona ROȘIE (Q1)), Section: Nanotechnology and Applied Nanosciences	Costica Caizer	MDPI, Switzerland, 2024-2025 (electronic) Link: https://www.mdpi.com/journal/applsci/special_issues/Applications_Nanotechnology_Nanomedicine_Magnetic_Nanomaterials	0,5
4	<i>Nanoparticles in Nanobiotechnology and Nanomedicine</i> Special Issue in INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES (ISI Web of Science, IF: 6,208, zona ROȘIE (Q1)), Section: Molecular Nanoscience	Costica Caizer	MDPI, Switzerland, 2022-2023 (electronic) Link: https://www.mdpi.com/journal/ijms/special_issues/43WY11UNJ1	0,5
5	<i>Magnetic Nanoparticles in Human Health and Medicine</i> Book Series: Nanobiotechnology in Medicine & Health Care	Costica Caizer and Mahendra Rai	WILEY, UK, 2021-2022 512 pages; (2021 – electronic; 2022 – print) Link: https://www.wiley.com/en-ie/Magnetic+Nanoparticles+in+Hum	0,25

			an+Health+and+M edicine:+Current+ Medical+Applicati ons+and+Alternati ve+Therapy+of+C ancer-p- 9781119754749	
6	Nano- and Biomagnetism Special Issue in APPLIED SCIENCES-BASEL (ISI Web of Science, IF: 2,838, zona GALBENĂ (Q2)), Section: Nanotechnology and Applied Nanosciences	Costica Caizer	MDPI, Switzerland, 2021 (electronic) Link: https://www.mdpi.com/journal/applsci/special_issues/Nano-_Biomagnetism	0,5
Punctaj total indicator A ₃				2,75

A4 - Cărți, manuale, îndrumătoare de laborator în edituri naționale sau alte edituri internaționale ca autor ...

Nr. crt.	Titlul	Autori	Editura, an, link (dacă este cazul)	Punctaj $0.5/n_i^{ef}$
1	Bioelectromagnetism. Lucrări de laborator 168 pagini; ISBN: 978-973-132-080-9 -cu referenți și ISBN, în editură recunoscută CNCS; - îndrumător de laborator, Fizică medicală;	C. Caizer	Ed. Eurobit, 2013 www.bcut.ro și document anexat (Anexa 1)	0,5
2	Fizică experimentală (II) 262 pagini; ISBN: 978-973-132-016-8 -cu referenți și ISBN, în editură recunoscută CNCS; - curs, toate secțiunile;	C. Caizer	Ed. Eurobit, 2012 www.bcut.ro și document anexat (Anexa 1)	0,5
3	Nano-biomagnetism 286 pagini; ISBN: 978-973-125-337-4 -cu referenți și ISBN, în editură recunoscută CNCSIS; - curs, master;	C. Caizer	Ed. Universității de Vest, 2010 www.bcut.ro și document anexat (Anexa 1)	0,5
4	Impulsuri electrice. Aplicații în circuite electrice, dispozitive electronice și magnetism tehnic	C. Caizer	Ed. Mirton, 2007 www.bcut.ro și document anexat	0,5

	268 pagini; ISBN: 978-973-52-0064-0 -cu referenți și ISBN, în editură recunoscută CNCSIS; - carte;		(Anexa 1)	
5	Nano-fluide magnetice 200 pagini; ISBN: 973-620-186-4 -cu referenți și ISBN, în editură recunoscută CNCSIS; - curs, Fizică;	C. Caizer	Ed. Eurobit, 2004 www.bcut.ro și document anexat (Anexa 1)	0,5
6	Sisteme de nanoparticule ferimagnetice disperse. Comportare magnetică 166 pagini; ISBN: 973-8433-73-8 -cu referenți și ISBN, în editură recunoscută CNCSIS; - carte;	C. Caizer	Ed. Universității de Vest Timișoara, 2004 www.bcut.ro și document anexat (Anexa1)	0,5
7	Electricitate și magnetism: Lucrări experimentale 212 pagini; ISBN: 973-8181-38-0 -cu ISBN, în editura recunoscută CNCSIS; - îndrumător de laborator, toate secțiile;	C. Caizer, I. Hrianca	Ed. Eurobit, 2001 www.bcut.ro și document anexat (Anexa 1)	0,25
Punctaj total indicator A ₄				3,250

A6 - Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate ISI

Nr. crt.	Titlul	Autori	Revista, editura, an, link (dacă este cazul)	Punctaj $0.2 / n_i^{ef}$
1	<i>Cobalt Doped Fe₃O₄ Nanoparticles for Magnetic Hyperthermia Application</i>	I.S. Caizer, C. Caizer	AIP Conference Proc. (TIM 20-21 Physics Conference), AIP Publishing, 2023 (accepted); Link: https://pubs.aip.org/aip/acp/issue/2218/1	0,1
2	<i>Computational study on</i>	C. Caizer	Journal of	0,2

	<i>superparamagnetic hyperthermia with biocompatible SPIONs to destroy the cancer cells</i>		Physics: Conf. Ser. IOP Publishing (J. Phys.: Conf. Ser. 521 (2014) 012015); Link: ISI Clarivate Analytics - WoS	
Punctaj total indicator A₆				0,3

A9 - Director/ responsabil/ coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură (proiectele de cercetare se exclud)

Nr. crt.	Titlul proiectului sau programului	Calitatea (director sau responsabil)	Autoritatea contractantă, instituția, link (după cum e cazul)	Punctaj 0,5
1	<i>Composites of Inorganic Nanotubes and Polymers</i> (COINAPO) Project suport COST Action, MP0902, 2009 - 2013;	Responsabil WG2, partener (UVT)	EUROPEAN COMMISSION (EU RTD Framework Programme) Link: http://www.cost.eu/COST_Actions/mpns/MP0902 și document anexat (Anexa 2)	0,5
2	Proiectul pentru Învățământul Rural (PIR), 2005 - 2007	Responsabil (UVT - Fizica)	MEN - conform document anexat – UVT (Anexa 3);	0,5
Punctaj total indicator A₉				1,00

A10 – Director /responsabil pentru proiecte de cercetare în valoare V_i euro câștigate prin competiție națională sau internațională (proiectele de la punctul A9 se exclud). Sumele în lei sau în alte valute se convertesc în euro la cursul mediu din anul respectiv conform www.bnr.ro pentru perioada de după 1999 și la cursul din 1999 pentru perioada anterioară. Responsabilii de proiect sunt cei care conduc o echipă de cercetare, fiind menționați ca atare în proiectul depus; în cazul lor se consideră doar suma aferentă echipei conduse.

Nr. crt.	Titlul proiectului	Calitatea (director sau responsabil)	Autoritatea contractantă, link (dacă este cazul)	Punctaj $V_i / 100.000$
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1	Proiect cercetare PN-III-P2-2.1-PED-2019-3067; 263PED/2020; 2020 – 2022 <i>Nanobiostructuri inovatoare bazate pe nanoparticule ferimagnetice bioconjugate cu ciclodextrine pentru creșterea eficacității și reducerea toxicității în terapia cancerului prin hipertermie superparamagnetică</i>	Director, coordonator parteneriat; -investiție 53.000 EUR;	UEFISCDI Suma: 600.000 LEI Link: https://uefiscdi.gov.ro/resource-829440-d1_finale.pdf?&wtok=&wtkps=XU5LbsMgEL0L68ZlQBQ83uQEUaScwDEQUZmAjRNLiXz3AoqUtqt58356PUp8JuRIktOkSygyhH4IswQfvZ2iFrM63+34rc9tSCCnxUX71arH7mLXuDx24M04MVRcGMSVy5AI+QL7hXR9Vp5V9r+f7HWogLbdtUNg06F4pKVMolE63g9nj65pEwxRYWqpTn6Zj4YgOAAHHidIGrq8C8DFMlfY562mgJ4Rj7o22iaMF+am7EuDdo1d2fWpp8XN4SRdNsP&wchk=9d595b5dcd79e79a4def0cf0065d5c03e240d66d (poziția 9) + dovada anexată	1,24 600.000 / 4,8371 = 124.041 EUR; - curs mediu BNR pe 2020: 1 EUR = 4,8371 lei;
2	Proiect cercetare PNCI-II, PARTENERIATE D7, 71-026/ 2007-2010;	Director, coordonator parteneriat; -investiție 145.000 EUR;	ANCS-CNMP Suma: 2.000.000 RON - conform document anexat (Anexa 4);	5,993 (curs mediu BNR 2007: 1 EUR=3,3373 RON 599.287 EUR;
3	Grant cercetare CNCSIS tip A, Cod 728/ 2006-2008;	Director -investiție 5.000 EUR;	CNCSIS Suma: 450.000.000 ROL -conform document anexat (Anexa 5);	0,128 (curs mediu BNR 2006: 1 EUR=3,5245 RON
4	Contract cercetare nr. 6891/2005; Subgrant CNCSIS tip A	Director	CNCSIS-UPT Suma: 25.000.000 ROL -conform document anexat (Anexa 6);	
5	Grant cercetare	Responsabil echipă	CNCSIS	

	CNCSIS A, Cod 648/2005-2006;	UVT-Fizică; -convenție de colaborare: UPT		
6	Grant cercetare CNCSIS A, Cod 583/2003-2005;	Responsabil echipă UVT-Fizică; -convenție de colaborare: Academia Română - Filiala Timișoara	CNCSIS	
7	Grant cercetare ANSTI, AT, nr. 6142/2000	Responsabil echipă UVT-Fizică; -convenție de colaborare: Academia Română - filiala Timișoara	ANCS-ANSTI	
Punctaj total indicator A_{10}				8,361

Punctaj total realizat pentru activitatea didactică și profesională (A):

$$A = \sum_{i=1}^{10} A_i = A_2 + A_3 + A_4 + A_6 + A_9 + A_{10} = 21,360$$

Criteriu minimal pentru activitatea didactică și profesională (A):

Abilitare/Profesor: $A \geq 2$

2. Activitatea de cercetare

2.1 – Articole științifice originale, în extenso, ca autor (ISI - WOS)

Nr.	Referința bibliografică (conform ISI - Web of Science (WOS))	AIS	n_i	n_i^{ef}	AIS_i/n_i^{ef}
1	Isabela-Simona Caizer-Gaitan, Claudia-Geanina Watz, Costica Caizer* , Cristina-Adriana Dehelean, Tiberiu Bratu, Zorin Crainiceanu, Adina Coroaba, Mariana Pinteala, and Codruta-Marinela Soica, <i>In Vitro Superparamagnetic Hyperthermia Employing Magnetite Gamma-Cyclodextrin Nanobioconjugates for Human Squamous Skin Carcinoma Therapy</i> , INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 25, 8380, 2024 (pp. 1-25). Impact Factor: 4.9, zona ROSIE (Q1 in Web of Science (WoS)); CiteScore 8.1 (Q1);	1,055 (2023)	9	7	0,151

2	Costica Caizer , Isabela Simona Caizer-Gaitan, Claudia Geanina Watz, Cristina Adriana Dehelean, Tiberiu Bratu and Codruta Soica, <i>High Efficacy on the Death of Breast Cancer Cells Using SPMHT with Magnetite Cyclodextrins Nanobioconjugates</i> , PHARMACEUTICS, 15(4) (2023) 1145 (pp. 1-20). Impact Factor: 6,525, zona ROSIE (Q1); Five Years Impact Factor: 7,227;	0,798	6	5,5	0,145
3	Costica Caizer , Isabela Simona Caizer, Roxana Racoviceanu, Claudia Geanina Watz, Marius Mioc, Cristina Adriana Dehelean, Tiberiu Bratu, Codruta Soica, <i>The Fe₃O₄-PAA-(HP-γ-CDs) Biocompatible Ferrimagnetic Nanoparticles for Increasing Efficacy in Superparamagnetic Hyperthermia</i> , NANOMATERIALS, 12(15) (2022) 2577 (pp.1-28) Impact Factor: 5,719, zona ROSIE (Q1); Five Years Impact Factor: 5,81;	0,712	8	6,5	0,11
4	Isabela Simona Caizer, Costica Caizer , <i>Superparamagnetic Hyperthermia Study with Cobalt Ferrite Nanoparticles Covered with γ-Cyclodextrins by Computer Simulation for Application in Alternative Cancer Therapy</i> , INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 23(8) (2022) 4350 (pp. 1-25). Impact Factor: 6,208, zona ROSIE (Q1); Five Years Impact Factor: 6,628;	1,030	2	2	0,515
5	Costica Caizer , <i>Computational Study Regarding CoxFe₃-xO₄ Ferrite Nanoparticles with Tunable Magnetic Properties in Superparamagnetic Hyperthermia for Effective Alternative Cancer Therapy</i> , NANOMATERIALS, 11(12) (2021) 3294 (pp. 1-20). Impact Factor: 5,719, zona ROSIE (Q1); Five Years Impact Factor: 5,81;	0,738	1	1	0,738
6	Costica Caizer , Isabela Simona Caizer, <i>Study on Maximum Specific Loss Power in Fe₃O₄ Nanoparticles Decorated with Biocompatible Gamma-Cyclodextrins for Cancer Therapy with Superparamagnetic Hyperthermia</i> , INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 22(18) (2021) 10071 (pp. 1-22). Impact Factor: 6,208, zona ROSIE (Q1); Five Years Impact Factor: 6,628;	1,064	2	2	0,532
7	Costica Caizer , <i>Specific Loss Power and Heating Temperature in CoFe₂O₄ Nanoparticles as Possible Candidate for Alternative Cancer Therapy by Superparamagnetic Hyperthermia</i> , Applied Sciences , 11(12) (2021) 5505 (pp. 1-22); Impact Factor: 2.838, zona GALBENA (Q2) Five Years Impact Factor: 2,921;	0,409	1	1	0,409
8	Costica Caizer , <i>Optimization study on specific loss power in superparamagnetic hyperthermia with</i>	0,738	1	1	0,738

	<i>magnetite nanoparticles for high efficiency in alternative cancer therapy</i> , NANOMATERIALS, 11(1) (2021) 40 (pp. 1-20); Impact Factor: 5,719, zona ROSIE (Q1); Five Years Impact Factor: 5,81;				
9	C. Caizer , <i>Computational study on superparamagnetic hyperthermia with biocompatible SPIONs to destroy the cancer cells</i> , Journal of Physics (IOP) (J. Phys.: conf. ser. 521 (2014) 012015).		1	1	
10	M. Stoia, C. Caizer , M. Ștefănescu, P. Barvinschi, L. Barbu-Tudoran, <i>Characterisation of nickel-zinc ferrite/silica nanocomposites with low ferrite concentration obtained by an improved modified sol-gel method</i> , Journal of Sol-Gel Science and Technology (J. Sol-Gel Sci. Techn., 58 (2011) 126 – 134).	0,5	5	5	0,1
11	M. Ștefănescu, M. Stoia, C. Caizer , O. Ștefănescu, <i>Preparation of $x(\text{Ni}_{0.65}\text{Zn}_{0.35}\text{Fe}_2\text{O}_4)/(1-x)\text{SiO}_2$ nanocomposite powders by a modified sol-gel method</i> , Materials Chemistry and Physics (Mater. Chem. Phys., 113 (2009) 342 – 348).	0,632	4	4	0,158
12	M. Ștefănescu, M. Stoia, C. Caizer , T. Dippong, P. Barvinschi, <i>Preparation of $\text{Co}_x\text{Fe}_{3-x}\text{O}_4$ nanoparticles by thermal decomposition of some organo-metallic precursors</i> , Journal of Thermal Analysis and Calorimetry (J. Therm. Anal. Calorim., 97 (2009) 245 – 250).	0,224	5	5	0,0448
13	C. Caizer , <i>Magnetic properties of the novel nanocomposite $(\text{Zn}_{0.15}\text{Ni}_{0.85}\text{Fe}_2\text{O}_4)_{0.15}/(\text{SiO}_2)_{0.85}$ at room temperature</i> , Journal of Magnetism and Magnetic Materials (J. Magn. Magn. Mater., 320 (2008) 1056 – 1062).	0,46	1	1	0,46
14	M. Stoia, C. Caizer , M. Ștefănescu, P. Barvinschi, I. Julean, <i>Obtaining of $\text{Ni}_{0.65}\text{Zn}_{0.35}\text{Fe}_2\text{O}_4/\text{SiO}_2$ nanocomposites by thermal decomposition of complex compounds embedded in silica matrix</i> , Journal of Thermal Analysis and Calorimetry (J. Therm. Anal. Calorim., 88 (2007) 193 – 200).	0,226	5	5	0,0452
15	C. Caizer , V. Tura, <i>Magnetic relaxation/stability of Co ferrite nanoparticles embedded in amorphous silica particles</i> , Journal of Magnetism and Magnetic Materials (J. Magn. Magn. Mater., 301 (2006) 513 – 520).	0,5	2	2	0,25
16	M. Ștefănescu, C. Caizer , M. Stoia, O. Ștefănescu,	1,9	4	4	0,475

	<i>Ultrafine, perfectly spherical Ni-Zn ferrite nanoparticles, with ultranarrow distribution, isolated in a silica matrix, prepared by a novel synthesis method in the liquid phase, Acta Materialia (Acta Mater., 54 (2006) 1249 – 1256).</i>				
17	C. Caizer , <i>Deviation from Bloch law in the case of surfacted nanoparticles, Applied Physics A (Appl. Phys. A, 80 (2005) 1745 – 1751).</i>	0,8	1	1	0,8
18	M. Ștefănescu, C. Caizer , M. Stoia, O. Ștefănescu, <i>Ni,Zn/SiO₂ ferrite nanocomposites prepared by an improved sol-gel method and their characterisation, Journal of Optoelectronics and Advanced Materials (J. Optoelectron. Adv. M., 7 (2005) 607 – 614).</i>	0,12	4	4	0,03
19	C. Caizer , <i>The effect of external magnetic field on the thermal relaxation of magnetization, Journal of Physics-Condensed Matter (J. Phys.: Condens. Matter 17 (2005) 2019 – 2034).</i>	1,1	1	1	1,1
20	C. Caizer , M. Popovici, C. Savii, <i>Spherical (Zn_δNi_{1-δ}Fe₂O₄)_γ nanoparticles in an amorphous (SiO₂)_{1-γ} matrix, prepared with the sol-gel method, Acta Materialia (Acta. Mater., 51 (2003) 3607 – 3616).</i>	2,0	3	3	0,6667
21	C. Caizer , <i>Structural and magnetic properties of nanocrystalline Zn_{0.65}Ni_{0.35}Fe₂O₄ powder obtained from heteropolynuclear complex combination, Materials Science and Engineering B-Solid State Materials for Advanced Technology (Mat. Sci. Eng. B, 100 (2003) 63 – 68).</i>	0,6	1	1	0,6
22	M. Popovici, C. Savii, D. Niznansky, J. Subrt, J. Bohacek, C. Caizer , C. Enache, C. Ionescu, <i>Nanocrystalline Ni-Zn ferrites prepared by sol-gel method, Journal of Optoelectronics and Advanced Materials (J. Optoelectron. Adv. M., 5 (2003) 251 – 256).</i>	0,19	8	6,5	0,029
23	C. Caizer , <i>Saturation magnetization of γ-Fe₂O₃ nanoparticles dispersed in a silica matrix, Physica B (Physica B, 327 (2003) 27 – 33).</i>	0,4	1	1	0,4
24	C. Caizer , M. Ștefănescu, <i>Nanocrystallite size effect on σ_s and H_c in nanoparticle assemblies, Physica B (Physica B, 327 (2003) 129 – 134).</i>	0,4	2	2	0,2
25	C. Caizer , <i>T² law for magnetite-based ferrofluids, Journal of Physics-Condensed Matter (J. Phys.:</i>	1,0	1	1	1,0

	Condens. Matter 15 (2003) 765 – 776).				
26	C. Caizer , I. Hrianca, <i>Dynamic magnetization of γ-Fe₂O₃ nanoparticles isolated in an SiO₂ amorphous matrix</i> , European Physical Journal B (Eur. Phys. J. B, 31 (2003) 391 – 400).	1,0	2	2	1,0
27	C. Caizer , C. Savii, M. Popovici, <i>Magnetic behaviour of iron oxide nanoparticles dispersed in a silica matrix</i> , Materials Science and Engineering B-Solid State Materials for Advanced Technology (Mat. Sci. Eng. B: Solid, 97 (2003) 129 – 134).	0,6	3	3	0,2
28	C. Caizer , I. Hrianca, <i>Temperature dependence of saturation magnetization of γ-Fe₂O₃/SiO₂ magnetic nanocomposite</i> , Annalen der Physik (Ann. Phys. 12 (2003) 115 – 122).	1,0	2	2	0,5
29	C. Caizer , M. Ștefănescu, <i>Magnetic Characterization of Nanocrystalline Ni-Zn Ferrite Powder Prepared by the Glyoxylate Precursor Method</i> , Journal of Physics D: Applied Physics (J. Phys. D: Appl. Phys., 35 (2002) 3035 – 3040).	0,7	2	2	0,35
30	R. Kohnlechner, Z. Schlett, M. Lungu, C. Caizer , <i>A new wet eddy-current separator</i> , Resources Conservation & Recycling (Resour. Conserv. Recy., 37 (2002) 55 – 60).	0,2	4	4	0,05
31	C. Caizer , <i>Magnetic behaviour of Mn_{0.6}Fe_{0.4}Fe₂O₄ nanoparticles in ferrofluid at low temperatures</i> , Journal of Magnetism and Magnetic Materials (J. Magn. Magn. Mater., 251 (2002) 304 – 315).	0,7	1	1	0,7
32	C. Savii, M. Popovici, C. Enache, J. Subrt, D. Niznansky, S. Bakardzieva, C. Caizer , I. Hrianca, <i>Fe₂O₃ – SiO₂ composites obtained by sol-gel synthesis</i> , Solid State Ionics (Solid State Ionics, 151 (2002) 219 – 227).	0,9	8	6,5	0,138
33	I. Hrianca, C. Caizer , Z. Schlett, <i>Dynamic magnetic behavior of Fe₃O₄ colloidal nanoparticles</i> , Journal of Applied Physics (J. Appl. Phys., 92 (2002) 2125 – 2132).	1,4	3	3	0,4667
34	I. Hrianca, C. Caizer , Z. Schlett, <i>Dynamic magnetic behavior of Fe₃O₄ colloidal nanoparticles</i> , Virtual Journal of Nanoscale Science & Technology (Vir. J. Nan. Sci. & Techn., 6 (7) (2002) (Electronic Journal), http://www.vjnano.org/); Selected Paper by the expert Editors from American Institute of Physics		3	3	

	(AIP) and American Physical Society (APS) (source J. Appl. Phys. 92 (2002) 2125);				
35	C. Caizer , <i>Thermal dependence of the saturation magnetisation of $Mn_{0.6}Fe_{0.4}Fe_2O_4$ nanoparticles in a ferrofluid</i> , Solid State Communications (Solid State Commun., 124 (2002) 53 – 57).	0,8	1	1	0,8
36	C. Caizer , M. Ștefănescu, C. Muntean, I. Hrianca, <i>Studies and magnetic properties of Ni-Zn ferrite synthesis from the glyoxylates complex combination</i> , Journal of Optoelectronics and Advanced Materials (J. Optoelectron. Adv. M., 3 (2001) 919 – 924).	0,08	4	4	0,02
37	I. Hrianca, C. Caizer , <i>Researches regarding load adaptation of a radiofrequency generator working in pulses</i> , Romanian Journal of Physics (Rom. Journ. Phys., 46 (2001) 139 – 149).	0,1	2	2	0,05
38	I. Hrianca, C. Caizer , C. Savii, M. Popovici, <i>Magnetic and structural properties of $\gamma-Fe_2O_3$ nanoparticles dispersed in a silica matrix</i> , Journal of Optoelectronics and Advanced Materials (J. Optoelectron. Adv. M., 2 (2000) 634 – 638).	0,03	4	4	0,0075
Punctaj total indicator 2.1 (I)					I = 13,979

2.2 –Articole științifice originale în extenso ca prim autor sau autor corespondent, conform mențiunilor de pe articol. Nu se iau în considerare articolele la care autorii sunt indicați în ordinea alfabetică a numelui și candidatul este prim-autor exclusiv datorită numelui acestuia și ordonării alfabetice. În cazul publicațiilor HEPP(High Energy Particle Physics) cu număr mare de autori, dacă articolul are la bază o notă internă a cărei aprobare în vederea trimiterii la publicare a fost susținută de către autor, atunci autorul este considerat prim autor.

Nr.	Referința bibliografică (conform ISI - Web of Science)	<i>AIS_i</i>
1	Isabela-Simona Caizer-Gaitan, Claudia-Geanina Watz, Costica Caizer* , Cristina-Adriana Dehelean, Tiberiu Bratu, Zorin Crainiceanu, Adina Coroaba, Mariana Pinteala, and Codruta-Marinela Soica, <i>In Vitro Superparamagnetic Hyperthermia Employing Magnetite Gamma-Cyclodextrin Nanobioconjugates for Human Squamous Skin Carcinoma Therapy</i> , INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 25, 8380, 2024 (pp. 1-25). Impact Factor: 4.9, zona ROSIE (Q1 in Web of Science (WoS)); CiteScore 8.1 (Q1);	1,055 (2023)
2	Costica Caizer , Isabela Simona Caizer-Gaitan, Claudia Geanina Watz, Cristina Adriana Dehelean, Tiberiu Bratu and Codruta Soica, <i>High Efficacy on the Death of Breast Cancer Cells Using SPMHT with</i>	0,798

	<i>Magnetite Cyclodextrins Nanobioconjugates</i>, PHARMACEUTICS, 15(4) (2023) 1145 (pp. 1-20). Impact Factor: 6,525, zona ROSIE (Q1); Five Years Impact Factor: 7,227;	
3	Costica Caizer, Isabela Simona Caizer, Roxana Racoviceanu, Claudia Geanina Watz, Marius Mioc, Cristina Adriana Dehelean, Tiberiu Bratu, Codruta Soica, <i>The Fe₃O₄-PAA-(HP-γ-CDs) Biocompatible Ferrimagnetic Nanoparticles for Increasing Efficacy in Superparamagnetic Hyperthermia</i>, NANOMATERIALS, 12(15) (2022) 2577 (pp.1-28) Impact Factor: 5,719, zona ROSIE (Q1); Five Years Impact Factor: 5,81;	0,712
4	Isabela Simona Caizer, Costica Caizer, <i>Superparamagnetic Hyperthermia Study with Cobalt Ferrite Nanoparticles Covered with γ-Cyclodextrins by Computer Simulation for Application in Alternative Cancer Therapy</i>, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 23(8) (2022) 4350 (pp. 1-25). Impact Factor: 6,208, zona ROSIE (Q1); Five Years Impact Factor: 6,628;	1,030
5	Costica Caizer, <i>Computational Study Regarding CoxFe₃-xO₄ Ferrite Nanoparticles with Tunable Magnetic Properties in Superparamagnetic Hyperthermia for Effective Alternative Cancer Therapy</i>, NANOMATERIALS, 11(12) (2021) 3294 (pp. 1-20). Impact Factor: 5,719, zona ROSIE (Q1); Five Years Impact Factor: 5,81;	0,738
6	Costica Caizer, Isabela Simona Caizer, <i>Study on Maximum Specific Loss Power in Fe₃O₄ Nanoparticles Decorated with Biocompatible Gamma-Cyclodextrins for Cancer Therapy with Superparamagnetic Hyperthermia</i>, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 22(18) (2021) 10071 (pp. 1-22). Impact Factor: 6,208, zona ROSIE (Q1); Five Years Impact Factor: 6,628;	1,064
7	Costica Caizer, <i>Specific Loss Power and Heating Temperature in CoFe₂O₄ Nanoparticles as Possible Candidate for Alternative Cancer Therapy by Superparamagnetic Hyperthermia</i>, Applied Sciences, 11(12) (2021) 5505 (pp. 1-22); Impact Factor: 2.838, zona GALBENA (Q2) Five Years Impact Factor: 2,921;	0,409
8	Costica Caizer, <i>Optimization study on specific loss power in superparamagnetic hyperthermia with magnetite nanoparticles for high efficiency in alternative cancer therapy</i>, NANOMATERIALS, 11(1) (2021) 40 (pp. 1-20); Impact Factor: 5,719, zona ROSIE (Q1); Five Years Impact Factor: 5,81;	0,738
9	C. Caizer, <i>Computational study on superparamagnetic hyperthermia with biocompatible SPIONs to destroy the cancer cells</i>, Journal of Physics (IOP) (J. Phys.: conf. ser. 521 (2014) 012015).	
10	C. Caizer, <i>Magnetic properties of the novel nanocomposite (Zn_{0.15}Ni_{0.85}Fe₂O₄)_{0.15}/(SiO₂)_{0.85} at room temperature</i>, Journal of Magnetism and Magnetic Materials (J. Magn. Magn. Mater., 320 (2008) 1056 – 1062).	0,46

11	C. Caizer , V. Tura, <i>Magnetic relaxation/stability of Co ferrite nanoparticles embedded in amorphous silica particles</i> , Journal of Magnetism and Magnetic Materials (J. Magn. Magn. Mater., 301 (2006) 513 – 520).	0,5
12	M. Ștefănescu, C. Caizer , M. Stoia, O. Ștefănescu, <i>Ultrafine, perfectly spherical Ni-Zn ferrite nanoparticles, with ultranarrow distribution, isolated in a silica matrix, prepared by a novel synthesis method in the liquid phase</i> , Acta Materialia (Acta Mater., 54 (2006) 1249 – 1256).	1,9
13	C. Caizer , <i>Deviation from Bloch law in the case of surfacted nanoparticles</i> , Applied Physics A (Appl. Phys. A, 80 (2005) 1745 – 1751).	0,8
14	C. Caizer , <i>The effect of external magnetic field on the thermal relaxation of magnetization</i> , Journal of Physics-Condensed Matter (J. Phys.: Condens. Matter 17 (2005) 2019 – 2034).	1,1
15	C. Caizer , M. Popovici, C. Savii, <i>Spherical $(\text{Zn}_\delta\text{Ni}_{1-\delta}\text{Fe}_2\text{O}_4)_\gamma$ nanoparticles in an amorphous $(\text{SiO}_2)_{1-\gamma}$ matrix, prepared with the sol-gel method</i> , Acta Materialia (Acta. Mater., 51 (2003) 3607 – 3616).	2,0
16	C. Caizer , <i>Structural and magnetic properties of nanocrystalline $\text{Zn}_{0.65}\text{Ni}_{0.35}\text{Fe}_2\text{O}_4$ powder obtained from heteropolynuclear complex combination</i> , Materials Science & Engineering B: Solid State Materials for Advanced Technology (Mat. Sci. Eng. B, 100 (2003) 63 – 68).	0,6
17	C. Caizer , <i>Saturation magnetization of $\gamma\text{-Fe}_2\text{O}_3$ nanoparticles dispersed in a silica matrix</i> , Physica B (Physica B, 327 (2003) 27 – 33).	0,4
18	C. Caizer , M. Ștefănescu, <i>Nanocrystallite size effect on σ_s and H_c in nanoparticle assemblies</i> , Physica B (Physica B, 327 (2003) 129 – 134).	0,4
19	C. Caizer , <i>T^2 law for magnetite-based ferrofluids</i> , Journal of Physics-Condensed Matter (J. Phys.: Condens. Matter 15 (2003) 765 – 776).	1,0
20	C. Caizer , I. Hrianca, <i>Dynamic magnetization of $\gamma\text{-Fe}_2\text{O}_3$ nanoparticles isolated in an SiO_2 amorphous matrix</i> , European Physical Journal B (Eur. Phys. J. B, 31 (2003) 391 – 400).	1,0
21	C. Caizer , C. Savii, M. Popovici, <i>Magnetic behaviour of iron oxide nanoparticles dispersed in a silica matrix</i> , Materials Science & Engineering B: Solid State Materials for Advanced Technology (Mat. Sci. Eng. B: Solid, 97 (2003) 129 – 134).	0,6
22	C. Caizer , I. Hrianca, <i>Temperature dependence of saturation magnetization of $\gamma\text{-Fe}_2\text{O}_3/\text{SiO}_2$ magnetic nanocomposite</i> , Annalen der Physik (Ann. Phys. 12 (2003) 115 – 122).	1,0

23	C. Caizer , M. Ștefănescu, <i>Magnetic Characterization of Nanocrystalline Ni-Zn Ferrite Powder Prepared by the Glyoxylate Precursor Method</i> , Journal of Physics D: Applied Physics (J. Phys. D: Appl. Phys., 35 (2002) 3035 – 3040).	0,7
24	C. Caizer , <i>Magnetic behaviour of $Mn_{0.6}Fe_{0.4}Fe_2O_4$ nanoparticles in ferrofluid at low temperatures</i> , Journal of Magnetism and Magnetic Materials (J. Magn. Magn. Mater., 251 (2002) 304 – 315).	0,7
25	C. Caizer , <i>Thermal dependence of the saturation magnetisation of $Mn_{0.6}Fe_{0.4}Fe_2O_4$ nanoparticles in a ferrofluid</i> , Solid State Communications (Solid State Commun., 124 (2002) 53 – 57).	0,8
26	C. Caizer , M. Ștefănescu, C. Muntean, I. Hrianca, <i>Studies and magnetic properties of Ni-Zn ferrite synthesis from the glyoxylates complex combination</i> , Journal of Optoelectronics and Advanced Materials (J. Optoelectron. Adv. M., 3 (2001) 919 – 924).	0,08
Punctaj total indicator 2.2 (P)		P = 20,584

Punctaj total realizat pentru activitatea de cercetare:

I = 13,979

P = 20,584

$I/2 + P/2 = 13,979/2 + 20,584/2 = 6,9895 + 10,292 = 17,282$

Criterii minimale pentru activitatea de cercetare:

Abilitare/Profesor: $I \geq 4$, $P \geq 4$;

3. Recunoașterea impactului activității

3.1. Citări în reviste științifice cu factor de impact care se regăsesc în InCites Journal Citation Reports sau în cărți în edituri recunoscute Web of Science. Nu se iau în considerare citările provenind din articole care au ca autor sau coautor candidatul

Publicația care citează (c_i)	Referința bibliografică a publicației care citează (conform ISI Web of Science)	ISI _k	n_i	n_i^{ef}	c_i/n_i^{ef}
	1. Isabela-Simona Caizer-Gaitan, Claudia-Geanina Watz, Costica Caizer*, Cristina-Adriana Dehelean, Tiberiu Bratu, Zorin Crainiceanu, Adina Coroaba, Mariana Pinteala, and Codruta-Marinela Soica, <i>In Vitro Superparamagnetic Hyperthermia Employing Magnetite Gamma-Cyclodextrin Nanobioconjugates for Human Squamous Skin Carcinoma Therapy</i>, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 25, 8380, 2024 (pp. 1-25).		9	7	0,286

1	Cutaneous Evaluation of Fe ₃ O ₄ Nanoparticles: An Assessment Based on 2D and 3D Human Epidermis Models Under Standard and UV Conditions Watz, CG; Moaca, EA; (...); Dehelean, CA 2025 INTERNATIONAL JOURNAL OF NANOMEDICINE 20 , pp.3653-3670			
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14	Elmahaishi, Madiha Fathi and Azis, Raba'ah Syahidah and Ismail, Ismayadi and Mustaffa, Muhammad Syazwan and Abbas, Zulkifly and Matori, Khamirul Amin and Muhammad, Farah Diana and Nazlan, Rodziah and Ibrahim, Idza Riati and Mokhtar, Nurhidayat, Influence of Micron-Nano Polycrystalline Magnetite on Microwave Absorbing Properties. Available at SSRN: https://ssrn.com/abstract=4096083 or http://dx.doi.org/10.2139/ssrn.4096083 35 Pages, Posted: 28 Apr 2022 SSRN - ELSEVIER	
15	Abdallah, R.M., Al-Haddad, R.M.S. Fe ₃ O ₄ @Au@SiO ₂ Core–Shell Nanoparticles: Synthesis, Characterization, Investigations of Its Influence on Cell Lines Using a NIR Laser and an Alternating Magnetic Field. J INORG ORGANOMET POLYM 32, 478–485 (2022).	
16	Coatings of magnetic composites of iron oxide and carbon nitride for photocatalytic water purification Isabel Köwitsch and Michael Mehring RSC ADV., 2021,11, 14053-14062	
17	Khunová, V.; Pavliňák, D.; Šafařík, I.; Škrátek, M.; Ondreáš, F. Multifunctional Electrospun Nanofibers Based on Biopolymer Blends and Magnetic Tubular Halloysite for Medical Applications. POLYMERS 2021, 13, 3870. doi.org/10.3390/polym13223870	
18	Jamrozik, A.; Przewoznik, J.; Krysiak, S.; Korecki, J.; Trykowski, G.; Małolepszy, A.; Stobiński, L.; Burda, K. Effect of Grinding and the Mill Type on Magnetic Properties of Carboxylated Multiwall Carbon Nanotubes. MATERIALS 2021, 14, 4057.	

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19	Spin Coupling in Magnetic Core - Shell Nanoparticles Corisa Kons, University of South Florida ProQuest Dissertations Publishing, 2021. 28776248. ProQuest LLC (WOS)	
20	Idayanti N, Dedi, Manaf A. Physical and Magnetic Characterization of Hard/Soft SrFe ₁₂ O ₁₉ /CoFe ₂ O ₄ Magnets Made by Mechanical Alloying and Ultrasonic Irradiation. JOURNAL OF NANO RESEARCH 2021;69:53–66. doi.org/10.4028/www.scientific.net/jnanor.69.53.	
21	Spin Canting in Exchange Coupled Bi-Magnetic Nanoparticles: Interfacial Effects and Hard / Soft Layer Ordering C. Kons, K.L. Krycka, J. Robles, Nikolaos Ntallis, Manuel Pereiro, Manh-Huong Phan, Hariharan Srikanth, J.A. Borchers, D.A. Arena arXiv:2105.11501v1; 2021 Publisher: Cornell Univ (WOS) doi.org/10.48550/arXiv.2105.11501	
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23	Electroanalytical Applications of Quantum Dot-Based Biosensors Micro and Nano Technologies 2021, Pages 81-120 Chapter 3 - Quantum dots-based sensors using solid electrodes Paweł Krzyczmonik ^a , Burcin Bozal-Palabiyik ^b , Sławomira Skrzypek ^a , Bengi Uslu ^b Publisher: ELSEVIER, doi.org/10.1016/B978-0-12-821670-5.00007-5	
24	Target-Specific Superparamagnetic Hydrogel with Excellent pH Sensitivity and Reversibility: A Promising Platform for Biomedical Applications Rinki Singh, Dipayan Pal, and Sudeshna Chattopadhyay* ACS OMEGA 2020, 5, 34, 21768–21780 Publication Date: August 20, 2020 https://doi.org/10.1021/acsomega.0c02817 2020 American Chemical Society	
25	Mössbauer spectroscopy studies on the particle size distribution effect of Fe–B–P amorphous alloy on the microwave absorption properties Yu-Hua Lv, Yan-Hui Zhang, Jian Zhang & Bin Li NUCLEAR SCIENCE AND TECHNIQUES, vol. 31, Article number: 24 (2020)	
26	Magnetic Properties of Iron Nanoparticles Distributed in Polymer Matrix: Theoretical and Experimental Approach M.A. Ramazanova,* , H.A. Shirinovaa , F.V. Hajiyevaa , J.R. Sultanovab and R.A. Alizadec ACTA PHYSICA POLONICA A No. 6 Vol. 138 (2020)	
27	Magnetic hysteresis behavior of granular manganite La _{0.67} Ca _{0.33} MnO ₃ nanotubes M. I. Dolz, S. D. Calderón Rivero, H. Pastoriza, and F. Romá PHYS. REV. B 101, 174425 – Published 15 May 2020	
28	Ni nanocoatings on porous alumina: Structural properties vs matrices porosity R. G. Valeev ^{1,a)} , A. N. Beltiukov ¹ , A. S. Alalykin ^{1,2} , and V. V. Kriventsov ^{3,4,b)} AIP Conference Proceedings 2299, 080001 (2020); https://doi.org/10.1063/5.0030668	
29	Kujur, V.S., Singh, S. Structural, magnetic, optical and photocatalytic properties of GaFeO ₃ nanoparticles synthesized via non-aqueous solvent-based sol–gel route. J MATER SCI: MATER ELECTRON 31, 17633–17646 (2020).	
30	To study the surface modified cobalt zinc ferrite nanoparticles for application to magnetic hyperthermia Suman Halder; S. I. Liba; A. Nahar; S. S. Sikder; S. Manjura Hoque AIP ADVANCES 10, 125308 (2020)	
31	Specific absorption rate in Zn-doped ferrites for self-controlled magnetic	

	hyperthermia Anghel Apostolov, Iliana Apostolova, Julia Wesselinowa THE EUROPEAN PHYSICAL JOURNAL B, March 2019 92:58	
32	Magnetic properties and heating efficacy of magnesium doped magnetite nanoparticles obtained by co-precipitation method V Kusigerski, E Illes, J Blanus, S Gyergyek... JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, Volume 475, 1 April 2019, Pages 470-478	
33	Magnetic properties of hydrothermally synthesized $Ba_{1-x}Sr_xFe_{12}O_{19}$ ($x = 0.0-0.8$) nanomaterials N. Raghuram, T. Subba Rao, K. Chandra Babu Naidu APPLIED PHYSICS A, December 2019, 125:839	
34	Reduction and transformation of nanomagnetite and nanomaghemite by a sulfate-reducing bacterium Yuefei Zhou, Yang Gao, Qiaoqin Xie, Jin Wang, Zhengbo Yue, Lin Wei, Yang Yang, Ling Li, Tianhu Chen GEOCHIMICA ET COSMOCHIMICA ACTA Volume 256, 1 July 2019, Pages 66-81	
35	Analysis and control of heating of magnetic nanoparticles by adding a static magnetic field to an alternating magnetic field Armando Ramos Sebastian, Hyung Joon Kim, and Sung Hoon Kim JOURNAL OF APPLIED PHYSICS 126, 134902 (2019)	
36	Structural, magnetic and dielectric studies of siderite nano-particles synthesized by hydrothermal method Mahatta Oza, H. O. Jethva, D. K. Kanchan, H. H. Joshi, and M. J. Joshi MODERN PHYSICS LETTERS B, Vol. 33, No. 34, 1950429 (2019)	
37	Zhang, X., Zhou, Y., Xie, Q. <i>et al.</i> Effects of adsorbed inorganic anions on the magnetic properties of calcination-prepared porous maghemite. PHYS CHEM MINERALS 46, 751-758 (2019)	
38	Ceramic Nanoparticle Synthesis at Lower Temperatures for LTCC and MMIC Technologies KCB Naidu, M Wuppuluri, IEEE TRANSACTIONS ON MAGNETICS, 54, 2018, Article no. 2300808	
39	Structural and dielectric properties of superparamagnetic iron oxide nanoparticles (SPIONs) stabilized by sugar solutions DS Kumar, KCB Naidu, MM Rafi, KP Nazeer... MATERIALS SCIENCE-POLAND, DOI: 10.1515/msp-2018-0017, 2018	
40	Low Curie-transition temperature and superparamagnetic nature of Fe_3O_4 nanoparticles prepared by colloidal nanocrystal synthesis By: A Manohar, C Krishnamoorthi MATERIALS CHEMISTRY AND PHYSICS Volume 192, 1 May 2017, Pages 235-243	
41	Synthesis and characterization of superparamagnetic Iron Oxide nanoparticles (SPIONs) stabilized by Glucose, Fructose and Sucrose Dhananjayan Sivakumar ^{1, 2} ; Mehboob Mohamed Rafi ² ; Balaraman Sathyaseelan ³ ; Kulam Mohammed Prem Nazeer ^{2, *} ; Ahmed Meeran Ayisha Begam ⁴ INT. J. NANO DIMENS., 8 (3): 257-264, Summer 2017	
42	Microwave assisted solid state reaction method: Investigations on electrical and magnetic properties $NiMgZn$ ferrites Chandra Babu Naidu ^{K.} , Madhuri ^{W.} MATERIALS CHEMISTRY AND PHYSICS Volume 181, 15 September 2016, Pages 432-443	
Punctaj total indicator 3.1 (C):		C = 497,988

3.2. Factorul Hirsch (h);

h = 17 (conform Clarivate Analytics – Web of Science);

Punctaj total realizat pentru Activitatea 3:

$$C/20 + h/5 = 497,988/20 + 17/5 = 24,899 + 3,4 = 28,299$$

Criterii minimele pentru Activitatea 3:

Profesor universitar/Abilitare: $C \geq 40$, $h \geq 10$;

➤ Punctaj TOTAL (CNATDCU - Fizică - UVT) realizat de subsemnatul:

$$T = A + (I/2 + P/2) + (C/20 + h/5) = 21,360 + 17,282 + 28,299 = \underline{66,941}$$

Criteriul minimal pentru punctajul total:

Abilitare/Profesor univ.: $T \geq 12$

Timișoara, 03.06.2025

Semnătura,
Conf. Dr. Habil. Caizer Costică



Conf. Dr. Habil. CAIZER Costică
Facultatea de Fizică - UVT
Conducător de Doctorat - Fizică

FIȘA DE VERIFICARE
a îndeplinirii standardelor minime (CNATDCU – Fizică – UVT)
pentru Abilitare/Profesor
– domeniul FIZICĂ –
- pentru ultimii 5 ani (2020 – 2024) -

Sinteză privind

gradul de îndeplinire a standardelor pentru Abilitare/Profesor
CNATDCU – Fizică - UVT
pentru Afilieră la SDSESN – domeniul Fizică din UVT

Activități *	Punctaje necesare pentru Abilitare/Profesor x 25 %	Punctaje și gradul de îndeplinire realizate de Conf. Caizer Costică
A	$\geq 0,5$	5,956; 1.191,2%
I	≥ 1	3,187; 318,7%
P	≥ 1	6,544; 654,4%
C	≥ 10	180,915; 1.809,15%
h	$\geq 2,5$	6; 240%
Punctaj total $T=A+(I/2+P/2)$ $+(C/20+h/5)$	≥ 3	21,068; 702,27%

Gradul de îndeplinire a standardelor realizat de candidat: 702,27%

* Activități conform Fișei de verificare a standardelor CNATDCU – Fizică – UVT;

A: Activitatea didactică și profesională;

I, P: Activitatea de cercetare (I: articole științifice originale *în extenso* ISI ca autor; P: articole științifice originale *în extenso* ISI ca prim autor sau autor corespondent);

C, h: Recunoașterea impactului activității (C: citări în reviste științifice ISI sau în cărți WoS; h: indicele Hirsch (WoS));

Precizări:

1. **AIS_i** este scorul de influență absolut al revistei științifice în care a fost publicat articolul **i**, corespunzător anului de publicare al acestuia conform cu www.eigenfactor.org pentru articolele publicate până în 2006 și Journal Citation Report (ISI Web of Science) începând cu anul 2007; în cazul în care anul de publicare nu se găsește în baza de date, se va alege anul cel mai apropiat.
2. **n_i^{ef}** reprezintă numărul efectiv de autori ai itemului **i** și ia următoarele valori: **n_i**, dacă **n_i ≤ 5**; **(n_i + 5) / 2**, dacă **5 < n_i ≤ 15**; **(n_i + 15) / 3**, dacă **15 < n_i ≤ 75**; și **(n_i + 45) / 4**, dacă **n_i > 75**, unde **n_i** este numărul de autori ai itemului **i**. În cazul publicațiilor HEPP (High Energy Particle Physics) cu număr mare de autori, dacă articolul are la bază o notă internă a experimentului la care candidatul este coautor, atunci **n_i^{ef}** poate fi dat de numărul de autori din nota internă.
3. Indicele Hirsch **h** se definește astfel: un autor are un indice Hirsch **h** dacă a publicat **h** articole care au fost citate fiecare de cel puțin **h** ori. Pentru calcularea indicelui Hirsch se va folosi baza de date ISI Web of Science.
4. Lucrările de tip “Article. Proceedings paper” pot fi considerate la punctele 1.6 sau 2, o singură dată, la alegerea candidatului.
5. Editurile recunoscute Web of Science se găsesc pe site-ul Web of Science – Master Book List- Publishers (<http://wokinfo.com/mbi/publishers/>)
6. Se recomandă ca fiecare candidat să își creeze un cont pe ResearcherID pentru facilitarea verificării datelor privind activitatea de cercetare și recunoașterea impactului activității.

CONȚINUT:

I. Activitatea didactică și profesională

A2 - Capitole de cărți în edituri internaționale recunoscute *Web of Science* în calitate de autor/ Review-uri în reviste cotate ISI

Nr. crt.	Titlul capitolului - titlul cărții / titlul Review-ului	Autori	Editura, an / revista, an, pagini, link	Punctaj $1/n_i^{ef}$
1	Magnetic/Superparamagnetic hyperthermia in clinical trials for non-invasive alternative cancer therapy Chapter 18, In: Magnetic Nanoparticles in Human Health and Medicine Book Series: Nanobiotechnology in Medicine & Health Care Costica Caizer and Mahendra Rai (Eds.), WILEY, UK, 2022 Link: https://onlinelibrary.wiley.com/doi/book/10.1002/9781119754725	Costică Caizer	WILEY, UK 2021-2022 (2021 – electronic; 2022 – print) pp. Link: https://onlinelibrary.wiley.com/doi/10.1002/9781119754725.ch18	1
2	Magnetic Nanoparticles in Alternative Tumors Therapy: Biocompatibility, Toxicity and Safety Compared with Classical	Costică Caizer, Mahendra Rai	WILEY, UK 2021-2022 (2021 – electronic; 2022 – print)	0,5

	Methods Chapter 16, In: <i>Magnetic Nanoparticles in Human Health and Medicine</i> Book Series: Nanobiotechnology in Medicine & Health Care Costica Caizer and Mahendra Rai (Eds.), WILEY, UK, 2022		pp. Link: https://onlinelibrary.wiley.com/doi/10.1002/9781119754725.ch16	
3	Classical Magnetoliposomes vs Current Magnetocyclodextrins with Ferrimagnetic Nanoparticle for High Efficiency and Low Toxicity in Alternative Therapy of Cancer by Magnetic /Superparamagnetic Hyperthermia Chapter 13, In: <i>Magnetic Nanoparticles in Human Health and Medicine</i> Book Series: Nanobiotechnology in Medicine & Health Care Costica Caizer and Mahendra Rai (Eds.), WILEY, UK, 2022	Costică Caizer, Cristina Dehelean, Codruța Șoica	WILEY, UK 2021-2022 (2021 – electronic; 2022 – print) pp. Link: https://onlinelibrary.wiley.com/doi/10.1002/9781119754725.ch13	0,333
4	An introduction to magnetic nanoparticles: from bulk to nanoscale magnetism and their applicative potential in human health and medicine Chapter 1, In: <i>Magnetic Nanoparticles in Human Health and Medicine</i> Book Series: Nanobiotechnology in Medicine & Health Care Costica Caizer and Mahendra Rai (Eds.), WILEY, UK, 2022	Costică Caizer, Shital Bonde, Mahendra Rai	WILEY, UK 2021-2022 (2021 – electronic; 2022 – print) pp. Link: https://onlinelibrary.wiley.com/doi/abs/10.1002/9781119754725.ch1	0,333
5	Magnetic Nanoparticle Nanoformulations for Alternative Therapy of Cancer by Magnetic/ Superparamagnetic Hyperthermia	Costică Caizer, Cristina Dehelean, Dorina Coricovac, Isabela Caizer, Codruța Șoica	SPRINGER, 2020 pp. 503-530; Link: https://link.springer.com/chapter/10.1007/978-3-030-41858-8_22	0,2
Punctaj total indicator A ₂				2,366

A3 - Cărți în edituri internaționale recunoscute *Web of Science* în calitate de editor

Nr. crt.	Titlul	Editori	Editura, an, link (dacă este cazul)	Punctaj 0.5/ n_i^{ef}
1	<i>Nanoparticles in Nanobiotechnology and Nanomedicine: 2nd Edition</i> Special Issue in <u>INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES</u> (ISI Web of Science, IF: 4.9, zona ROȘIE (Q1)), Section: Molecular Nanoscience	Costica Caizer	MDPI, Switzerland, 2024-2025 (electronic) Link: https://www.mdpi.com/journal/ijms/special_issues/34J4DC97P8	0,5
2	<i>Applications in Nanotechnology and Nanomedicine of Magnetic Nanomaterials</i> Special Issue in APPLIED SCIENCES-BASEL (ISI Web of Science, IF: 2.5, zona ROSIE (Q1)), Section: Nanotechnology and Applied Nanosciences	Costica Caizer	MDPI, Switzerland, 2024-2025 (electronic) Link: https://www.mdpi.com/journal/applsci/special_issues/Applications_Nanotechnology_Nanomedicine_Magnetic_Nanomaterials	0,5
3	<i>Nanoparticles in Nanobiotechnology and Nanomedicine</i> Special Issue in <u>INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES</u> (ISI Web of Science, IF: 6,208, zona ROȘIE (Q1)), Section: Molecular Nanoscience	Costica Caizer	MDPI, Switzerland, 2022-2023 (electronic) Link: https://www.mdpi.com/journal/ijms/special_issues/43WY11UNJ1	0,5
4	<i>Magnetic Nanoparticles in Human Health and Medicine</i> Book Series: Nanobiotechnology in Medicine & Health Care	Costica Caizer and Mahendra Rai	WILEY, UK, 2021-2022 512 pages; (2021 – electronic; 2022 – print) Link: https://www.wiley.com/en-ie/Magnetic+Nanoparticles+in+Hum	0,25

			an+Health+and+M edicine:+Current+ Medical+Applicati ons+and+Alternati ve+Therapy+of+C ancer-p- 9781119754749	
5	Nano- and Biomagnetism Special Issue in APPLIED SCIENCES-BASEL (ISI Web of Science, IF: 2,838, zona GALBENĂ (Q2)), Section: Nanotechnology and Applied Nanosciences	Costica Caizer	MDPI, Switzerland, 2021 (electronic) Link: https://www.mdpi.com/journal/applsci/specialissues/Nano-Biomagnetism	0,5
Punctaj total indicator A₃				2,25

A6 - Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate ISI

Nr. crt.	Titlul	Autori	Revista, editura, an, link (dacă este cazul)	Punctaj $0.2 / n_i^{ef}$
1	<i>Cobalt Doped Fe₃O₄ Nanoparticles for Magnetic Hyperthermia Application</i>	I.S. Caizer, C. Caizer	AIP Conference Proc. (TIM 20-21 Physics Conference), AIP Publishing, (accepted);	0,1
Punctaj total indicator A₆				0,1

A10 – Director /responsabil pentru proiecte de cercetare în valoare V_i euro câștigate prin competiție națională sau internațională (proiectele de la punctul A9 se exclud). Sumele în lei sau în alte valute se convertesc în euro la cursul mediu din anul respectiv conform www.bnr.ro pentru perioada de după 1999 și la cursul din 1999 pentru perioada anterioară. Responsabilii de proiect sunt cei care conduc o echipă de cercetare, fiind menționați ca atare în proiectul depus; în cazul lor se consideră doar suma aferentă echipei conduse.

Nr. crt.	Titlul proiectului	Calitatea (director sau responsabil)	Autoritatea contractantă, link (dacă este cazul)	Punctaj $V_i / 100.000$
1	Proiect cercetare PN-III-P2-2.1-PED-2019-3067; 263PED/2020; 2020 – 2022	Director, coordonator parteneriat; -investiție 52.000	UEFISCDI Suma: 600.000 LEI Link: https://uefiscdi.gov	1,24 600.000 / 4,8371 =

	<i>Nanobiostructuri inovatoare bazate pe nanoparticule ferimagnetice bioconjugate cu ciclodextrine pentru creșterea eficacității și reducerea toxicității în terapia cancerului prin hipertermie superparamagnetică</i>	EUR;	ro/resource-829440-d1_finale.pdf?&wtok=&wtkps=XU5LbsMgEL0L68ZIQBQ83uQEUaScwDEQUZmAjRNLiXz3AoqUtqt58356PUp8JuRIktOkSygyhH4IswQfvZ2iFrM63+34rc9tSCCnxUX71arH7mLXuDx24M04MVrCgMSVy5AI+QL7hXR9Vp5V9r+f7HWogLbdtUNg06F4pKVMolE63g9nj65pEwxRYWqpTn6Zj4YgOAAHHidIGrq8C8DFMlfY562mgJ4Rj7o22iaMF+am7EuDdo1d2fWpp8XN4SRdNsP&wchk=9d595b5dcd79e79a4def0cf0065d5c03e240d66d (poziția 9) + dovada anexată	124.041 EUR; - curs mediu BNR pe 2020: 1 EUR = 4,8371 lei;
Punctaj total indicator A_{10}				1,24

Punctaj total realizat de candidat pentru activitatea didactică și profesională (A):

$$A = \sum_{i=1}^{10} A_i = A_2 + A_3 + A_6 + A_{10} = 2,366 + 2,25 + 0,1 + 1,24 = 5,956$$

Criteriu minimal pentru activitatea didactică și profesională (A):

Afiliere SDSESN: $A \geq 2 \times 25\% \geq 0,5$

Gradul de indeplinire a standardelor realizat de candidat: 1.191,2%

2. Activitatea de cercetare

2.1 – Articole științifice originale în extenso ca autor (ISI)

Nr.	Referința bibliografică (conform ISI Web of Science)	AIS	n _i	n ^{ef} _i	AIS _i /n ^{ef} _i
1	Isabela-Simona Caizer-Gaitan, Claudia-Geanina Watz, Costica Caizer* , Cristina-Adriana Dehelean, Tiberiu Bratu, Zorin Crainiceanu, Adina Coroaba, Mariana Pinteala, and Codruta-Marinela Soica, <i>In Vitro Superparamagnetic Hyperthermia Employing Magnetite Gamma-Cyclodextrin Nanobioconjugates for Human Squamous Skin Carcinoma Therapy</i> , INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 25, 8380, 2024 (pp. 1-25). Impact Factor: 4.9, zona ROSIE (Q1 in Web of Science (WoS)); CiteScore 8.1 (Q1);	1,055 (2023)	9	7	0.151
2	Costica Caizer , Isabela Simona Caizer-Gaitan, Claudia Geanina Watz, Cristina Adriana Dehelean, Tiberiu Bratu and Codruta Soica, <i>High Efficacy on the Death of Breast Cancer Cells Using SPMHT with Magnetite Cyclodextrins Nanobioconjugates</i> , PHARMACEUTICS, 15(4) (2023) 1145 (pp. 1-20). Impact Factor: 6,525, zona ROSIE (Q1); Five Years Impact Factor: 7,227;	0,798	6	5,5	0.145
3	Costica Caizer , Isabela Simona Caizer, Roxana Racoviceanu, Claudia Geanina Watz, Marius Mioc, Cristina Adriana Dehelean, Tiberiu Bratu, Codruta Soica, <i>The Fe₃O₄-PAA-(HP-γ-CDs) Biocompatible Ferrimagnetic Nanoparticles for Increasing Efficacy in Superparamagnetic Hyperthermia</i> , NANOMATERIALS, 12(15) (2022) 2577 (pp.1-28) Impact Factor: 5,719, zona ROSIE (Q1); Five Years Impact Factor: 5,81;	0,712	8	6,5	0.11
4	Isabela Simona Caizer, Costica Caizer , <i>Superparamagnetic Hyperthermia Study with Cobalt Ferrite Nanoparticles Covered with γ-Cyclodextrins by Computer Simulation for Application in Alternative Cancer Therapy</i> , INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 23(8) (2022) 4350 (pp. 1-25). Impact Factor: 6,208, zona ROSIE (Q1); Five Years Impact Factor: 6,628;	1,030	2	2	0,515
5	Costica Caizer , <i>Computational Study Regarding CoxFe3-xO4 Ferrite Nanoparticles with Tunable Magnetic Properties in Superparamagnetic Hyperthermia for Effective Alternative Cancer Therapy</i> , NANOMATERIALS, 11(12) (2021) 3294 (pp. 1-20). Impact Factor: 5,719, zona ROSIE (Q1); Five Years Impact Factor: 5,81;	0,738	1	1	0,738

6	Costica Caizer , Isabela Simona Caizer, <i>Study on Maximum Specific Loss Power in Fe₃O₄ Nanoparticles Decorated with Biocompatible Gamma-Cyclodextrins for Cancer Therapy with Superparamagnetic Hyperthermia</i> , INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 22(18) (2021) 10071 (pp. 1-22). Impact Factor: 6,208, zona ROSIE (Q1); Five Years Impact Factor: 6,628;	1,064	2	2	0,532
7	Costica Caizer , <i>Specific Loss Power and Heating Temperature in CoFe₂O₄ Nanoparticles as Possible Candidate for Alternative Cancer Therapy by Superparamagnetic Hyperthermia</i> , Applied Sciences , 11(12) (2021) 5505 (pp. 1-22); Impact Factor: 2.838, zona GALBENA (Q2) Five Years Impact Factor: 2,921;	0,409	1	1	0,409
8	Costica Caizer , <i>Optimization study on specific loss power in superparamagnetic hyperthermia with magnetite nanoparticles for high efficiency in alternative cancer therapy</i> , NANOMATERIALS, 11(1) (2020) 40 (pp. 1-20); Impact Factor: 5,719, zona ROSIE (Q1); Five Years Impact Factor: 5,81;	0,738	1	1	0,738
Punctaj total indicator 2.1 (I)					I = 3,187

2.2 –Articole științifice originale în extenso ca prim autor sau autor corespondent, conform mențiunilor de pe articol. Nu se iau în considerare articolele la care autorii sunt indicați în ordinea alfabetică a numelui și candidatul este prim-autor exclusiv datorită numelui acestuia și ordonării alfabetic. În cazul publicațiilor HEPP(High Energy Particle Physics) cu număr mare de autori, dacă articolul are la bază o notă internă a cărei aprobare în vederea trimiterii la publicare a fost susținută de către autor, atunci autorul este considerat prim autor.

Nr.	Referința bibliografică (conform ISI Web of Science)	AIS _i
1	Isabela-Simona Caizer-Gaitan, Claudia-Geanina Watz, Costica Caizer* , Cristina-Adriana Dehelean, Tiberiu Bratu, Zorin Crainiceanu, Adina Coroaba, Mariana Pinteala, and Codruta-Marinela Soica, <i>In Vitro Superparamagnetic Hyperthermia Employing Magnetite Gamma-Cyclodextrin Nanobioconjugates for Human Squamous Skin Carcinoma Therapy</i> , INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 25, 8380, 2024 (pp. 1-25). Impact Factor: 4.9, zona ROSIE (Q1 in Web of Science (WoS)); CiteScore 8.1 (Q1);	1,055 (2023)
2	Costica Caizer , Isabela Simona Caizer-Gaitan, Claudia Geanina Watz, Cristina Adriana Dehelean, Tiberiu Bratu and Codruta Soica, <i>High Efficacy on the Death of Breast Cancer Cells Using SPMHT with Magnetite Cyclodextrins Nanobioconjugates</i> , PHARMACEUTICS, 15(4) (2023) 1145 (pp. 1-20). Impact Factor: 6,525, zona ROSIE (Q1);	0,798

	Five Years Impact Factor: 7,227;	
3	Costica Caizer , Isabela Simona Caizer, Roxana Racoviceanu, Claudia Geanina Watz, Marius Mioc, Cristina Adriana Dehelean, Tiberiu Bratu, Codruta Soica, <i>The Fe₃O₄-PAA-(HP-γ-CDs) Biocompatible Ferrimagnetic Nanoparticles for Increasing Efficacy in Superparamagnetic Hyperthermia</i> , NANOMATERIALS, 12(15) (2022) 2577 (pp.1-28) Impact Factor: 5,719, zona ROSIE (Q1); Five Years Impact Factor: 5,81;	0,712
4	Isabela Simona Caizer, Costica Caizer , <i>Superparamagnetic Hyperthermia Study with Cobalt Ferrite Nanoparticles Covered with γ-Cyclodextrins by Computer Simulation for Application in Alternative Cancer Therapy</i> , INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 23(8) (2022) 4350 (pp. 1-25). Impact Factor: 6,208, zona ROSIE (Q1); Five Years Impact Factor: 6,628;	1,030
5	Costica Caizer , <i>Computational Study Regarding CoxFe_{3-x}O₄ Ferrite Nanoparticles with Tunable Magnetic Properties in Superparamagnetic Hyperthermia for Effective Alternative Cancer Therapy</i> , NANOMATERIALS, 11(12) (2021) 3294 (pp. 1-20). Impact Factor: 5,719, zona ROSIE (Q1); Five Years Impact Factor: 5,81;	0,738
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7	Costica Caizer , <i>Specific Loss Power and Heating Temperature in CoFe₂O₄ Nanoparticles as Possible Candidate for Alternative Cancer Therapy by Superparamagnetic Hyperthermia</i> , Applied Sciences , 11(12) (2021) 5505 (pp. 1-22); Impact Factor: 2.838, zona GALBENA (Q2) Five Years Impact Factor: 2,921;	0,409
8	Costica Caizer , <i>Optimization study on specific loss power in superparamagnetic hyperthermia with magnetite nanoparticles for high efficiency in alternative cancer therapy</i> , NANOMATERIALS, 11(1) (2020) 40 (pp. 1-20); Impact Factor: 5,719, zona ROSIE (Q1); Five Years Impact Factor: 5,81;	0,738
Punctaj total indicator 2.2 (P)		P= 6,544

Punctaj total realizat de candidat pentru activitatea de cercetare:

I = 3,187 ; P = 6,544

I/2 + P/2 = 3,187/2 + 6,544/2 = 1,594 + 3,272 = 4,866

Criterii minime pentru activitatea de cercetare:

Afiliere SDSESN: $I \geq 4 \times 25\% \geq 1$, $P \geq 4 \times 25\% \geq 1$;

Gradul de indeplinire a standardelor realizat de candidat:

I = 318,70%

P = 654,40%

3. Recunoașterea impactului activității

3.1. Citări în reviste științifice cu factor de impact care se regăsesc în InCites Journal Citation Reports sau în cărți în edituri recunoscute Web of Science. Nu se iau în considerare citările provenind din articole care au ca autor sau coautor candidatul

Publicația care citează (c _i)	Referința bibliografică a publicației care citează (conform ISI Web of Science)	ISI _k	n _i	n ^{ef} _i	c _i /n ^{ef} _i
	2. C Caizer , IS Caizer-Gaitan, CG Watz, CA Dehelean, T Bratu, C Soica, <i>High Efficacy on the Death of Breast Cancer Cells Using SPMHT with Magnetite Cyclodextrins Nanobioconjugates</i> , PHARMACEUTICS 15 (4), 1145 (2023).		6	5,5	0,364
1	Influence of the Synthesis Scheme of Nanocrystalline Cerium Oxide and Its Concentration on the Biological Activity of Cells Providing Wound Regeneration Silina, EV; Stupin, VA; (...); Ivanov, VK Oct 2023 INTERNATIONAL JOURNAL OF MOLECULAR SCIENCESarrow_drop_down 24 (19)				
2	Mamun, A.; Sabantina, L. Electrospun Magnetic Nanofiber Mats for Magnetic Hyperthermia in Cancer Treatment Applications— Technology, Mechanism, and Materials. POLYMERS 2023, 15, 1902				
	3. Costica Caizer , Isabela Simona Caizer, Roxana Racoviceanu, Claudia Geanina Watz, Marius Mioc, Cristina Adriana Dehelean, Tiberiu Bratu, Codruta Soica, <i>The Fe₃O₄-PAA-(HP-γ-CDs) Biocompatible Ferrimagnetic Nanoparticles for Increasing Efficacy in Superparamagnetic Hyperthermia</i> , NANOMATERIALS, 12(15) (2022) 2577 (pp.1-28)		8	6,5	0,462
1	The preparation methods and types of cell sheets engineering Hu, DP; Gao, C; (...); Sun, Y Sep 27 2024 STEM CELL RESEARCH & THERAPYarrow_drop_down 15 (1)				
2	Enhanced functionalization of superparamagnetic Fe ₃ O ₄ nanoparticles for advanced drug enrichment and separation applications Shen, H; Wang, XY; (...); Ma, XL Sep 19 2024 BMC CHEMISTRYarrow_drop_down 18 (1)				
3	Investigation of superparamagnetic iron oxide nanoparticles in air environment for elevated saturation magnetization Karaagac, O and Köçkar, H				

	Aug 1 2024 PHYSICA SCRIPTAarrow_drop_down 99 (8)			
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1	Magnetic hyperthermia in cancer therapy, mechanisms, and recent advances: A review Molaei, MJ Jul 2024 JOURNAL OF BIOMATERIALS APPLICATIONSarrow_drop_down 39 (1) , pp.3-23			
2	Economical Fabrication of Superparamagnetic CoFe ₂ O ₄ Nanodots@MoS ₂ Nanosheets with Double PEGylation Using Non-ionic Surfactants with Enhanced Biological Activity Lakshmidivi, M; Vasanthi, P; (...); Arun, A Dec 2024 BIONANOSCIENCEarrow_drop_down 14 (5) , pp.4813-4824			
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5	The role of pH on the preparation of citric acid coated cobalt ferrite nanoparticles for biomedical applications Nagy, L; Zelenáková, A; (...); Vilcek, S Oct 15 2023 JOURNAL OF ALLOYS AND COMPOUNDSarrow_drop_down 960			
6	Implantable smart hyperthermia nanofibers for cancer therapy: Challenges and opportunities Valizadeh, A; Asghari, S; (...); Pilehvar, Y Nov 2023 WILEY INTERDISCIPLINARY REVIEWS-NANOMEDICINE AND NANOBIOTECHNOLOGYarrow_drop_down 15 (6)			
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1	Structure, magnetic properties and hyperthermia of Fe _{3-x} Co _x O ₄ nanoparticles obtained by wet high-energy ball milling Seleznev, SV; Bordyuzhin, IG; (...); Shchetinin, I			

	Sep 2024 INORGANIC CHEMISTRY COMMUNICATIONSarrow_drop_down 167			
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14	Magnetic, Dielectric, and Thermal Properties of BaCo-Hexaferrite Nanospheres O Ramanjaneyulu, NS Kumar... - Crystal Research ..., 2023 - Wiley Online Library	
15	Effect of Topology Parameters on Physical–Mechanical Properties of Magnetic PLA 3D-Printed Structures L Zárbynická, M Pagáč, R Ševčík, J Pokorný... - Magnetochemistry, 2023	
15	Fabrication of nitrilotriacetic acid conjugated superparamagnetic nanoparticle γ -Fe2O3 via amino functionalization SY Kang, GS An - Colloids and Surfaces A: Physicochemical and ..., 2023 - Elsevier	
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2	Sameer Nadaf , Goutam Kumar Jena, Nilesh Rarokar, Nilambari Gurav, Muniappan Ayyanar, Satyendra Prasa, Shailendra Gurav Biogenic and biomimetic functionalized magnetic nanosystem: Synthesis, properties, and biomedical applications <i>HYBRID ADVANCES Volume 3, August 2023, 100038</i>	
3	Magnetic Nanoparticles: Fabrications and Applications in Cancer Therapy and Diagnosis; In: Magnetic Nanoparticles for Biomedical Applications	

	T.S. Shrirame, P. Bhilkar, A.R. Chaudhary, A.R. Rai, R.P. Singh, P.R. Dhongle ⁶ , S.R. Thakare, A.A. Abdala and R.G. Chaudhary Materials Research Foundations 143 (2023) 199-232 https://doi.org/10.21741/9781644902332-7 Publisher: MATERIALS RESEARCH FORUM LLC (WOS)	
4	Merazzo, K.J.; Díez, A.G.; Tubio, C.R.; Manchado, J.C.; Malet, R.; Pérez, M.; Costa, P.; LancerosMendez, S. Acrylonitrile Butadiene Styrene-Based Composites with Permalloy with Tailored Magnetic Response. POLYMERS 2023, 15, 626. https://doi.org/10.3390/polym15030626	
5	Micro/Nanosystems for Magnetic Targeted Delivery of Bioagents by Francesca Garelli, Yulia Svenskaya, Bogdan Parakhonskiy and Miriam Filippi PHARMACEUTICS 2022, 14(6),1132; https://doi.org/10.3390/pharmaceutics14061132	
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10	Investigation of the influence of technological factors and compositions of binders on the strength characteristics of blast–furnace cement with magnetized ferromagnetic additives I Sakhno et al 2022, IOP CONF. SER.: EARTH ENVIRON. SCI. 1049 012050 DOI 10.1088/1755-1315/1049/1/012050	
11	Magnetic Properties of Ferrofluid Change Over Time: Implications for Magnetic Pore Fabric Studies Biedermann, Andrea Regina, Parés, Josep María JOURNAL OF GEOPHYSICAL RESEARCH: SOLID EARTH, 2022, 127, e2022JB024587 WILEY, 2022	
12	Dvorsky, R., Svoboda, L., Bednář, J. Nanoparticles—Their Specific Properties and Origin. In: Nanoparticles’ Preparation, Properties, Interactions and Self-Organization. SpringerBriefs in Applied Sciences and Technology. SPRINGER, Cham. 2022; doi.org/10.1007/978-3-030-89144-2_1	
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14	Elmahaishi, Madiha Fathi and Azis, Raba'ah Syahidah and Ismail, Ismayadi and Mustaffa, Muhammad Syazwan and Abbas, Zulkifly and Matori, Khamirul Amin and Muhammad, Farah Diana and Nazlan, Rodziah and Ibrahim, Idza Riati and Mokhtar, Nurhidayat, Influence of Micron-Nano Polycrystalline Magnetite on Microwave Absorbing Properties. Available at SSRN: https://ssrn.com/abstract=4096083 or http://dx.doi.org/10.2139/ssrn.4096083 35 Pages, Posted: 28 Apr 2022 SSRN - ELSEVIER	
15	Abdallah, R.M., Al-Haddad, R.M.S. Fe ₃ O ₄ @Au@SiO ₂ Core–Shell Nanoparticles: Synthesis, Characterization, Investigations of Its Influence on Cell Lines Using a NIR Laser and an Alternating Magnetic Field. J INORG ORGANOMET POLYM 32, 478–485 (2022).	
16	Coatings of magnetic composites of iron oxide and carbon nitride for photocatalytic water purification Isabel Köwitsch and Michael Mehring RSC ADV., 2021,11, 14053-14062	
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19	Spin Coupling in Magnetic Core - Shell Nanoparticles Corisa Kons, University of South Florida ProQuest Dissertations Publishing, 2021. 28776248. ProQuest LLC (WOS)	
20	Idayanti N, Dedi, Manaf A. Physical and Magnetic Characterization of Hard/Soft SrFe ₁₂ O ₁₉ /CoFe ₂ O ₄ Magnets Made by Mechanical Alloying and Ultrasonic Irradiation. JOURNAL OF NANO RESEARCH 2021;69:53–66. doi.org/10.4028/www.scientific.net/jnanor.69.53 .	
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22	Atrei, A.; Mahdizadeh, F.F.; Baratto, M.C.; Scala, A. Effect of Citrate on the Size and the Magnetic Properties of Primary Fe ₃ O ₄ Nanoparticles and Their Aggregates. APPL. SCI. 2021, 11, 6974.	
23	Electroanalytical Applications of Quantum Dot-Based Biosensors Micro and Nano Technologies 2021, Pages 81-120 Chapter 3 - Quantum dots-based sensors using solid electrodes Paweł Krzyczmonik ^a , Burcin Bozal-Palabiyik ^b , Sławomira Skrzypek ^a , Bengi Uslu ^b Publisher: ELSEVIER, doi.org/10.1016/B978-0-12-821670-5.00007-5	
24	Target-Specific Superparamagnetic Hydrogel with Excellent pH Sensitivity and Reversibility: A Promising Platform for Biomedical Applications Rinki Singh, Dipayan Pal, and Sudeshna Chattopadhyay* ACS OMEGA 2020, 5, 34, 21768–21780	

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25	Mössbauer spectroscopy studies on the particle size distribution effect of Fe–B–P amorphous alloy on the microwave absorption properties Yu-Hua Lv, Yan-Hui Zhang, Jian Zhang & Bin Li NUCLEAR SCIENCE AND TECHNIQUES, vol. 31, Article number: 24 (2020)	
26	Magnetic Properties of Iron Nanoparticles Distributed in Polymer Matrix: Theoretical and Experimental Approach M.A. Ramazanov*, H.A. Shirinovaa, F.V. Hajiyevaa, J.R. Sultanovab and R.A. Alizadec ACTA PHYSICA POLONICA A No. 6 Vol. 138 (2020)	
27	Magnetic hysteresis behavior of granular manganite La _{0.67} Ca _{0.33} MnO ₃ nanotubes M. I. Dolz, S. D. Calderón Rivero, H. Pastoriza, and F. Romá PHYS. REV. B 101, 174425 – Published 15 May 2020	
28	Ni nanocoatings on porous alumina: Structural properties vs matrices porosity R. G. Valeev ^{1,a)} , A. N. Beltiukov ¹ , A. S. Alalykin ^{1,2} , and V. V. Kriventsov ^{3,4,b)} AIP Conference Proceedings 2299, 080001 (2020); https://doi.org/10.1063/5.0030668	
29	Kujur, V.S., Singh, S. Structural, magnetic, optical and photocatalytic properties of GaFeO ₃ nanoparticles synthesized via non-aqueous solvent-based sol–gel route. J MATER SCI: MATER ELECTRON 31, 17633–17646 (2020).	
30	To study the surface modified cobalt zinc ferrite nanoparticles for application to magnetic hyperthermia Suman Halder; S. I. Liba; A. Nahar; S. S. Sikder; S. Manjura Hoque AIP ADVANCES 10, 125308 (2020)	
Punctaj total indicator 3.1 (C):		C = 180,915

3.2. Factorul Hirsch (h);

h = 6 (conform Clarivate Analytics – Web of Science);

Punctaj total realizat pentru Activitatea 3:

$$C/20 + h/5 = 180,915/20 + 6/5 = 9,046 + 1,2 = 10,246$$

Criterii minimele pentru Activitatea 3:

Afilieră SDSESN: $C \geq 40 \times 0,25 \geq 10$; $h \geq 10 \times 0,25 \geq 2,5$

Gradul de indeplinire a standardelor realizat de cadidat:

$$C = 1.809,15 \%$$

$$h = 240 \%$$

➤ **Punctaj TOTAL (CNATDCU - Fizică - UVT) realizat de subsemnatul:**

$$T = A + (I/2 + P/2) + (C/20 + h/5) = 5,956 + 4,866 + 10,246 = \underline{\underline{21,068}}$$

Criteriul minimal pentru punctajul total:

$$\text{Afiliere SDSESN: } T \geq 12 \times 0,25 \geq 3$$

Gradul de indeplinire a standardelor realizat de candidat:

$$T = \underline{\underline{702,27\%}}$$

Semnătura,
Conf. Dr. Habil. Caizer Costică

Timișoara, 04.06.2025



- **Îndeplinirea cerințelor (cu dovezi) prevăzute la art. 9 alin. (a)-(e) din Procedura-cadru de afiliere sau dezafilieră la Școlile Doctorale din cadrul IOSUD-UVT:**

(a) *“solicitantul face dovada capacității de a atrage fonduri pentru cercetare, fiind câștigătorul unui grant de cercetare din cadrul PN sau Orizont, în calitate de lider de proiect sau de lider partener, fiind luate în calcul doar proiectele câștigate sau aflate în implementare în ultimii cinci ani de zile.”*

Proiect de cercetare PN-III-P2-2.1-PED-2019-3067, UEFISCDI:

Contract 263PED/2020-2022

Acronim proiect: BIO-SPION

Perioada de derulare a proiectului: 2020 – 2022;

Valoare: 600.000 RON;

• **Titlu proiect:**

NANOBIOSTRUCTURI INOVATOARE BAZATE PE NANOPARTICULE FERIMAGNETICE BIOCONJUGATE CU CICLODEXTRINE PENTRU CREȘTEREA EFICACITĂȚII ȘI REDUCEREA TOXICITĂȚII ÎN TERAPIA CANCERULUI PRIN HIPERTERMIE SUPERPARAMAGNETICĂ

Director de proiect – coordonator parteneriat: Conf. Dr. Habil. CAIZER Costică

Conducător de proiect (CO): UNIVERSITATEA DE VEST TIMISOARA (UVT)

Autoritatea Contractantă: UEFISCDI

Partener în proiect:

- P1 (UMFVBT): UNIVERSITATEA DE MEDICINĂ ȘI FARMACIE “VICTOR BABEȘ” TIMIȘOARA (Responsabil proiect Prof. Dr. ȘOICA Codruța)

- Dovada este anexată (Anexa la FV).

(b) *“solicitantul dovedește o activitate științifică și profesională deosebită, reflectată prin punctajul obținut la grila CNATDCU pentru domeniul respectiv de știință, punctaj situate în cvartila Q1 (primii 25% cei mai bine clasati) prin raportare la punctajul celorlalți conducători de doctorat din domeniul respectiv de știință, afiliați la IOSUD UVT și titular în UVT.”*

➤ **Punctaj TOTAL (CNATDCU - Fizică - UVT) realizat de subsemnatul:**

$$T = A + (I/2+P/2) + (C/20+h/5) = 21,360 + 17,282 + 28,299 = \underline{66,941}$$

(conform Fisei de verificare a îndeplinirii standardelor minimale CNATDCU – Fizică – UVT necesare și obligatorii pentru Abilitare/Profesor - domeniul FIZICĂ, depusa la dosarul de afiliere);

(c) *“solicitantul dovedește o activitate științifică intensă, prin raportare la situația ultimilor cinci ani de zile, reflectată prin cel puțin șase publicații de tip article sau review în reviste indexate Web of Science (SCIE, SSCI, AHCI, ESCI) sau Scopus, dintre care în cel puțin două are calitatea de autor principal (conform UEFISCDI) și cel puțin două sunt apărute în reviste indexate în zona roșie;”*

Articole ISI în extenso publicate în reviste WoS (cu factor de impact) în ultimii 5 ani (2020-2024)

(conform Listei de lucrări depusa la dosarul de afiliere, și WoS);

- [1] Isabela-Simona Caizer-Gaitan, Claudia-Geanina Watz, **Costica Caizer***, Cristina-Adriana Dehelean, Tiberiu Bratu, Zorin Crainiceanu, Adina Coroaba, Mariana Pinteala, and Codruta-Marinela Soica, *In Vitro Superparamagnetic Hyperthermia Employing Magnetite Gamma-Cyclodextrin Nanobioconjugates for Human Squamous Skin Carcinoma Therapy*, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 25, 8380, 2024 (pp. 1-25). **Impact Factor: 4.9, zona ROSIE (Q1 in Web of Science (WoS)); CiteScore 8.1 (Q1);**
- [2] **Costica Caizer**, Isabela Simona Caizer-Gaitan, Claudia Geanina Watz, Cristina Adriana Dehelean, Tiberiu Bratu and Codruta Soica, *High Efficacy on the Death of Breast Cancer Cells Using SPMHT with Magnetite Cyclodextrins Nanobioconjugates*, PHARMACEUTICS, 15(4) (2023) 1145 (pp. 1-20). **Impact Factor: 6.525, zona ROSIE (Q1 in Web of Science (WOS)); Five Years Impact Factor: 7,227;**
- [3] **Costica Caizer**, Isabela Simona Caizer, Roxana Racoviceanu, Claudia Geanina Watz, Marius Mioc, Cristina Adriana Dehelean, Tiberiu Bratu, Codruta Soica, *The Fe₃O₄-PAA-(HP-γ-CDs) Biocompatible Ferrimagnetic Nanoparticles for Increasing Efficacy in Superparamagnetic Hyperthermia*, NANOMATERIALS, 12(15) (2022) 2577 (pp.1-28). **Impact Factor: 5.719, zona ROSIE (Q1); Five Years Impact Factor: 5,81;**

- [4] Isabela Simona Caizer, **Costica Caizer***, *Superparamagnetic Hyperthermia Study with Cobalt Ferrite Nanoparticles Covered with γ -Cyclodextrins by Computer Simulation for Application in Alternative Cancer Therapy*, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 23(8) (2022) 4350 (pp. 1-25). **Impact Factor: 6,208, zona ROSIE (Q1)**; Five Years Impact Factor: 6,628;
- [5] **Costica Caizer**, *Computational Study Regarding $\text{CoFe}_3\text{-xO}_4$ Ferrite Nanoparticles with Tunable Magnetic Properties in Superparamagnetic Hyperthermia for Effective Alternative Cancer Therapy*, NANOMATERIALS, 11(12) (2021) 3294 (pp. 1-20). **Impact Factor: 5,719, zona ROSIE (Q1)**; Five Years Impact Factor: 5,81;
- [6] **Costica Caizer**, Isabela Simona Caizer, *Study on Maximum Specific Loss Power in Fe_3O_4 Nanoparticles Decorated with Biocompatible Gamma-Cyclodextrins for Cancer Therapy with Superparamagnetic Hyperthermia*, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 22(18) (2021) 10071 (pp. 1-22). **Impact Factor: 6,208, zona ROSIE (Q1)**; Five Years Impact Factor: 6,628;
- [7] **Costica Caizer**, *Specific Loss Power and Heating Temperature in CoFe_2O_4 Nanoparticles as Possible Candidate for Alternative Cancer Therapy by Superparamagnetic Hyperthermia*, APPLIED SCIENCES, 11(12) (2021) 5505 (pp. 1-22); **Impact Factor: 2.838, zona GALBENA (Q2)**; Five Years Impact Factor: 2,921;
- [8] **Costica Caizer**, *Optimization study on specific loss power in superparamagnetic hyperthermia with magnetite nanoparticles for high efficiency in alternative cancer therapy*, NANOMATERIALS, 11(1) (2020) 40 (pp. 1-20); **Impact Factor: 5,719, zona ROSIE (Q1)**; Five Years Impact Factor: 5,81;

(d) “*solicitantul dovedește o activitate științifică intensă, prin raportare la situația ultimilor cinci ani de zile, reflectată prin obținerea unui punctaj pe grila CNATDCU aferentă domeniului în ultimii 5 ani calendaristici egal sau mai mare cu 30% din standardele minimale pentru abilitare la nivel național;*”

FIȘA DE VERIFICARE

a îndeplinirii standardelor minimale (CNATDCU – Fizică – UVT)
pentru Abilitare/Profesor
– domeniul FIZICĂ –

- pentru ultimii 5 ani (2020 – 2024) -

este ANEXATA la document (in dosarul de afiliere);

Sinteză privind

gradul de îndeplinire a standardelor pentru Abilitare/Profesor CNATDCU – Fizică - UVT pentru Afilierea la SDSESN – domeniul Fizică din UVT

Activități *	Punctaje necesare pentru Abilitare/Profesor x 30%	Punctaje realizate de Conf. Caizer Costică
A	$\geq 0,6$	5,956 (1.191,2%)
I	$\geq 1,2$	3,187 (318,7%)
P	$\geq 1,2$	6,544 (654,4%)
C	≥ 12	180,915 (1.809,15%)
h	≥ 3	6 (240%)
Punctaj total $T=A+(I/2+P/2)+ (C/20+h/5)$	$\geq 3,6$	21,068 (702,27%)

Gradul de îndeplinire a standardelor realizat de cadidat: 702,27%

* Activități conform Fișei de verificare a standardelor CNATDCU – Fizică – UVT;

A: Activitatea didactică și profesională;

I, P: Activitatea de cercetare (I: articole științifice originale *în extenso* ISI ca autor; P: articole științifice originale *în extenso* ISI ca prim autor sau autor corespondent);

C, h: Recunoașterea impactului activității (C: citări în reviste științifice ISI sau în cărți WoS; h: indicele Hirsch (WoS));

Precizări:

1. AIS_i este scorul de influență absolut al revistei științifice în care a fost publicat articolul i , corespunzător anului de publicare al acestuia conform cu www.eigenfactor.org pentru articolele publicate până în 2006 și Journal Citation Report (ISI Web of Science) începând cu anul 2007; în cazul în care anul de publicare nu se găsește în baza de date, se va alege anul cel mai apropiat.
2. n_i^{ef} reprezintă numărul efectiv de autori ai itemului i și ia următoarele valori: n_i , dacă $n_i \leq 5$; $(n_i + 5)/2$, dacă $5 < n_i \leq 15$; $(n_i + 15)/3$, dacă $15 < n_i \leq 75$; și $(n_i + 45)/4$, dacă $n_i > 75$, unde n_i este numărul de autori ai itemului i . În cazul publicațiilor HEPP (High Energy Particle Physics) cu număr mare de autori, dacă articolul are la bază o notă internă a experimentului la care candidatul este coautor, atunci n_i^{ef} poate fi dat de numărul de autori din nota internă.
3. Indicele Hirsch h se definește astfel: un autor are un indice Hirsch h dacă a publicat h articole care au fost citate fiecare de cel puțin h ori. Pentru calcularea indicelui Hirsch se va folosi baza de date ISI Web of Science.

4. Lucrările de tip “Article. Proceedings paper” pot fi considerate la punctele 1.6 sau 2, o singură dată, la alegerea candidatului.
5. Editurile recunoscute Web of Science se găsesc pe site-ul Web of Science – Master Book List-Publishers (<http://wokinfo.com/mbl/publishers/>)
6. Se recomandă ca fiecare candidat să își creeze un cont pe ResearcherID pentru facilitarea verificării datelor privind activitatea de cercetare și recunoașterea impactului activității.

(e) *“solicitantul este titular cu normă întreagă în cadrul UVT.”*

Subsemnatul, Conf. Dr. Habil. Caizer Costica, sunt **angajat titular la UVT** (din anul 1991);

Semantura,
Conf. Dr. Habil. Caizer Costica

Data: 04.06.2025



Aprobat prin HS nr. 37 din 17.07.2025

Nr. înregistrare Contractor 34754/06.08.2020

Nr. înregistrare UEFISCDI

514/13.08.2020

**CONTRACT DE FINANȚARE
PENTRU EXECUȚIE PROIECTE**

NR. 263PED/2020

Finanțare:

Denumirea Programului din PN III:

Denumirea Subprogramului:

Tip proiect:

Titlul proiectului:

Valoarea totală a Contractului:

Din care, pe surse:

Sursa 1 - de la bugetul de stat:

Sursa 2 - din alte surse atrase (cofinanțare):¹:

Durata Contractului:

Nr. de pagini ale Contractului:

Autoritatea Contractantă:

Contractor:

Semnături:

**De acord pentru
Contractor**

La Timisoara

Data 06.08.2020

UNIVERSITATEA DE VEST TIMISOARA

Profesor Dr. Marius-Gabriel PIRTEA

Director de proiect

Conf. Dr. Dr. Hârlil Costica CAIZER

Director Economic

Ec. Dr. Cosmin Alexandru SPIRIDON

Consilier juridic

¹ Doar pentru tipurile de proiecte care implică cofinanțare

Vizat pentru
control financiar preventiv
1699 Nr. Sigiliu 4
Data vizei: an 2020 luna 08 zi 07

bugetul de stat

Programul 2 - Creșterea competitivității economiei
românești prin cercetare, dezvoltare și inovare

Subprogramul 2.1 - Competitivitate prin cercetare,
dezvoltare și inovare

Proiect experimental - demonstrativ

Nanobiostructuri inovatoare bazate pe nanoparticule
ferimagnetice conjugate cu ciclodextrine pentru
creșterea eficacității și reducerea toxicității în terapia
cancerului prin hipertermie SP-magnetica

600.000,00 lei

600.000,00 lei

0,00 lei

24 luni

_____ pagini

Unitatea Executivă pentru Finanțarea Învățământului
Superior, a Cercetării, Dezvoltării și Inovării
UNIVERSITATEA DE VEST TIMISOARA

**De acord pentru
Autoritatea Contractantă**

La București

Data _____

Unitatea Executivă pentru Finanțarea
Învățământului Superior, a Cercetării, Dezvoltării
și Inovării

Director general UEFISCDI
Adrian CURAJ

pentru Director Economic,
Lucia BOICENCO

MINISTERUL EDUCAȚIEI ȘI CERCETĂRII
U.E.F.I.S.C.D.I.
VIZAT PENTRU CONTROL FINANCIAR
PREVENTIV PROPRIU
Data acordării vizei: 26.08.2020

Anexe la Fișa de verificare

Adrese web și dovezi pentru Activitatea 1

- **Pentru indicatorul A2**

Pentru toate referintele din SPRINGER

<https://link.springer.com/search?query=Costica+Caizer>

Pentru referinta din TAYLOR & FRANCIS - CRC Press

<https://www.crcpress.com/Advances-in-Nanostructured-Composites-Volume-1-Carbon-Nanotube-and-Graphene/Aliofkhazraei/p/book/9781482236637>

- **Pentru indicatorul A4**

Site: www.bcut.ro/

http://aleph.bcut.ro/F/PXQKBCF8GKYI42UVXD73FB29J5M7RDU2Y2Q8V7T1MP38RAMUU9-30381?func=full-set-set&set_number=017163&set_entry=000001&format=999

si copiile atasate la Fisa de verificare (*Anexa 1*)

- **Pentru indicatorul A6**

Site: ISI Web of Science (Clarivate Analytics – Web of Science)

- **Pentru indicatorul A9**

Punctul 1:

Link pe pagina autoritatii contractante:

http://www.cost.eu/COST_Actions/mpns/MP0902

si documentele atasate (*Anexa 2*)

Punctul 2:

Adeverita PIR (*Anexa 3*)

- **Pentru indicatorul A10**

Punctul 1:

Copie contract (*Anexa 4*): Valoare proiect PNCDI-II 71-026/2007;

Punctul 2:

Copie grant (*Anexa 5*): Valoare grant CNCSIS A, Cod 728/2006;

Punctul 3:

Copie contract (*Anexa 6*): Valoare contract, 6891/2005;

Adrese web pentru Activitatile 2 si 3

Site: Clarivate Analytics – Web of Science;



Aprobat prin HS nr. 37 din 17.07.2025

Amex a 2

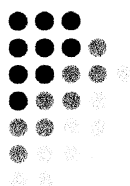
Project suport COST Action, MP0902, 2009-2013;

Composites of Inorganic Nanotubes and Polymers

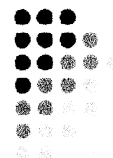
**Participation of the Romanian
team in the COST action
MP0902.**

**Dr. Petru Mihai Racolta
Dr. Victor Fruth**

**IFIN-Horia Hulubei
ICF-Ilie Murgulescu**



Romanian Partners



Group manager	Institution	Phone and Fax	E mail address	Working Group
ȚURA Vasile	Universitatea "Al. I. Cuza", Iasi	+40(232)201193 +40(232)201150	vasile.ura@iuc.ro	WG4
SĂCĂRESCU Liviu	ICM "Petru Poni" Iasi	+40(232)260332 +40(232)211299	liviu.s@icmpp.ro	WG1, WG2
FRUTH Victor	ICF "Ilie Murgulescu" Bucuresti	+40(21)3127912 +40(21)3121147	vfruth@icf.ro vfruth@gmail.com	WG1, WG2
RACOLȚA Petru Mihai	IFIN "Horia Hulubei" Bucuresti	+40(21)4042345 +4413 +40(21)4574440	pracol@ifm.nipne.ro pracol@yahoo.com	WG2, WG3
CAIZER Costica	Universitatea de Vest, Timisoara	+40(256)592205 +40(256)592310	ccaizer@physics.uvt.ro	WG2
BRAIC Violet	Natl. Institute of Optoelectronics Bucharest	+40(21)4575759 +40(21)4574522	vbraic@inoe.iroe.ro	WG1, WG2



 **cost**

Anexa 3



MINISTERUL EDUCAȚIEI ȘI CERCETĂRII
UNIVERSITATEA DE VEST TIMIȘOARA
B-dul Vasile Pârvan, Nr. 4
Tel.: +40-56-592170, Fax: +40-56-592312
<http://www.uvt.ro>

Prorectorat

Nr. 5284 / 03.05.2025

ADEVERINȚĂ

Prin prezenta se adeverește că domnul Conf. supl. dr. Caizer Costică este coordonator al Domeniului Fizică în cadrul Proiectului pentru Învățământul Rural și este titular de disciplină și tutore la materiile Electricitate și Știința Materialelor.

Prorector

Prof. dr. PIA BRÎNZEU

Secretar

MUREȘAN MIHAELA

Anexa 4

Nr înregistrare contractor

UVT

¹ 11088/14.09.2007

Anexa 3, Decizia.....

Nr. înregistrare

CNMP

¹ 01/07

18.09.2007

**CONTRACT DE FINANȚARE
PENTRU EXECUTIE PROIECTE**

Nr. ..26.1/.....

Finanțare: Buget de Stat - Ministerul Educației, Cercetării și Tineretului, Programul **PARTENERIATE
IN DOMENIILE PRIORITARE**

Categoria de proiect: **PROIECT COMPLEX (PC)**

Denumirea proiectului: **CERCETARI COMPLEXE PRIVIND OBTINEREA SI PROPRIETATILE
MAGNETICE ALE SISTEMELOR DE NANOPARTICULE FERIMAGNETICE DE $\text{Co}_5\text{Fe}_{3.5}\text{O}_4$
SURFACTATE/NESURFACTATE SI BIOCOMPATIBILE CU POTENTIALE APLICATII IN TERAPIA
CANCERULUI**

Valoarea proiectului (include și alte surse atrase):...-..lei*

Valoarea contractului (sursa numai buget de stat): **2.000.000 lei**

Durata contractului³: **36 luni**

Nr. de pagini: 229 (numărul de pagini al contractului, inclusiv prezenta, inclusiv anexele)

Autoritatea Contractantă: **Centrul National de Management Programe**

Contractor: **Universitatea de Vest din Timisoara**

Semnături:

Autoritatea Contractantă

La București

Data (data semnării)

DIRECTOR GENERAL

Serban PANAITESCU

DIRECTOR ECONOMIC,

Ines GHIOCA

Responsabil Domeniul Cercetare,

(Numele si prenumele)

CONSILIER JURIDIC,

Ecaterina GICA

Între:

Contractor

La București

Data (data semnării)

RECTOR,

Prof. dr. Ioan MIHAI

CONTABIL SEF,

Ec. Doina CHILARESCU

DIRECTOR PROIECT,

Conf. dr. Costica CAIZER

CONSILIER JURIDIC,

Florentina RADU

CENTRUL NATIONAL DE MANAGEMENT PROGRAME - CNMP, cu sediul în localitatea Bucuresti, str. Mendeleev, nr. 21-25, sector 1, codul poștal 010362, telefon 311.59.92, fax 318.87.63 înregistrată la data de 22.09.2004, cod fiscal 16782086, e-mail: panaitescu@cnmp.ro, reprezentata prin Directorul General: Serban Panaitescu si Director economic: Ines Ghioca, în calitate de **AUTORITATE CONTRACTANTĂ,**

¹ Pentru întreg documentul "Contract de finanțare", ...() are semnificația: se completează conform indicațiilor din paranteză.

² Pentru întreg documentul, "Contract de finanțare", înscrierea între <> are semnificația: se șterge acolo unde nu corespunde;

³ Se stabilește conform prevederilor cap.II din contract.

* Valoare include estimările pentru anii 2008, 2009 și 2010, conform prevederilor legii bugetului de stat, anuale și H.G. nr. 475/2007 pentru aprobarea PN II

și

UNIVERSITATEA DE VEST DIN TIMISOARA - UVT, cu sediul în Timisoara, bv. V. Parvan, nr. 4, jud. Timis, cod postal 300223, telefon 0256-592168, fax 0256-592310, înregistrată la Registrul Comerțului sub nr. 1/22362/08.07.93, cod fiscal (CUI) RO4250670, reprezentat prin rector, prof. dr. Ioan MIHAI și contabil sef, ec. Doina CHILARESCU, denumit în continuare **Contractor** s-a încheiat prezentul Contract de finanțare a serviciilor de execuție a Proiectului

CERCETARI COMPLEXE PRIVIND OBTINEREA SI PROPRIETATILE MAGNETICE ALE SISTEMELOR DE NANOPARTICULE FERIMAGNETICE DE $\text{Co}_0\text{Fe}_{3-0}\text{O}_4$ SURFACTATE/NESURFACTATE SI BIOCOMPATIBILE CU POTENTIALE APLICATII IN TERAPIA CANCERULUI.

I. OBIECTUL CONTRACTULUI

Art. 1 Obiectul prezentului contract de finanțare îl constituie execuția activităților proiectului CERCETARI COMPLEXE PRIVIND OBTINEREA SI PROPRIETATILE MAGNETICE ALE SISTEMELOR DE NANOPARTICULE FERIMAGNETICE DE $\text{Co}_0\text{Fe}_{3-0}\text{O}_4$ SURFACTATE/NESURFACTATE SI BIOCOMPATIBILE CU POTENTIALE APLICATII IN TERAPIA CANCERULUI, în conformitate cu ANEXA I.1 – „Descrierea propunerii de proiect” la prezentul contract, corespunzător propunerii Contractorului.

Art. 2 Contractorul va executa activitățile în conformitate cu ANEXA I, ANEXA II, ANEXA III în componența descrisă la art.61.

II. DURATA CONTRACTULUI

Art. 3 Contractul intră în vigoare la data semnării și atribuirii numărului de contract de către Autoritatea contractantă.

Art. 4 Contractorul începe execuția activităților prevăzute în prezentul contract în termen de maximum 7 zile calendaristice de la data intrării în vigoare.

Art. 5 Contractorul încheie execuția completă a activităților proiectului, obiect al prezentul contract, la data de

III. OBLIGAȚIILE PĂRȚILOR

Art. 6 Obligațiile Contractorului sunt:

- a) să execute activitățile asumate, asigurând comunicarea eficientă și operativă a problemelor tehnice și financiare atât în interiorul Consorțiului de parteneri cât și între Autoritatea contractantă și partenerii din Consorțiu; în interiorul grupului relațiile se vor desfășura conform Acordului ferm de colaborare;
- b) să execute în condiții de performanță și în termen activitățile prevăzute în ANEXA I, ANEXA II, ANEXA III prevăzute la art.63 din contract;
- c) să asigure suportul administrativ și logistic necesar executării activităților;
- d) să asigure componența și funcționalitatea echipei de lucru, conform anexei "Lista personalului";
- e) să supună spre aprobare Autorității contractante orice propunere de modificare a "Listei personalului", în următoarele condiții:
 - deces, boală sau accident a unui membru al personalului, care duce la imposibilitatea continuării activității;
 - forță majoră;
 - pensionare sau altă formă de încetare a contractului de muncă;
 - în cazul reducerii sau creșterii volumului activităților din cadrul proiectului;
- f) să suporte toate obligațiile legate de plata personalului său;
- g) să întocmească și să predea Autorității contractante următoarele documente necesare derulării contractului, conform modelelor puse la dispoziție de către Autoritatea Contractanta prin procedura de monitorizare și efectuare plăți: Cerere de avans, Cerere de plata, Notificare de deplasare, Raport intermediar de activitate, Raport final de

Amx95

Ministerul Educației și Cercetării
Consiliul Național al Cercetării Științifice din Învățământul Superior
Str. Școlii Magice nr. 1, sector 5, cod 06025, București, România
Telefon: 021 307 19 16, Fax: 021 307 19 19
e-mail: cncsis@cncsis.ro, www.cncsis.ro

Fișă de raport final

Nr. Inreg. Institutie ... 5877 / 13.04.2009

Nr. Inreg. CNCSIS

Cod CNCSIS: 728
Tip grant: A
Data finalizării grantului: 31.12.2008

1. Date de identificare ale directorului de grant:

Nume: CAIZER
Prenume: COSTICA
Denumirea instituției: UNIVERSITATEA DE VEST DIN TIMISOARA
Facultate/Departament: FACULTATEA DE FIZICA
Titlu didactic și/sau științific: Conferentiar
Funcție:
Telefon: 0256-592108
Fax: 0256-592316
E-mail: ccaizer@physics.uvt.ro

Adresa poștala valida pentru primirea corespondenței: oraș, str., bl., et., cod poștal
Bv. V. PARVAN, NR.4, 300223 TIMISOARA

2. Titlul proiectului:

Română (max 200 caractere)
CERCETARI FUNDAMENTALE SI FUNDAMENTAL-APLICATIVE PRIVIND SISTEMELE DE NANOPARTICULE FERIMAGNETICE, SPINELICE, DISPERSE

Engleză (max 200 caractere)
FUNDAMENTAL AND FUNDAMENTAL APPLICABLE RESEARCH REGARDING FERRIMAGNETIC, SPINEL, DISPERSE NANOPARTICLES SYSTEMS

3. Cuvinte cheie care definesc cel mai bine domeniul de cercetare al grantului (maxim 5):

Română (max 5 cuvinte)
NANOPARTICULE FERIMAGNETICE, NANOCOMPOZITE, SINTEZA CHIMICA, PROPRIETATI MAGNETICE

Engleză (max 5 cuvinte)
FERRIMAGNETIC NANOPARTICLES, NANOCOMPOSITES, CHEMICAL SYNTHESIS, MAGNETIC PROPERTIES

4. Rezumatul proiectului:

Română (max 2000 caractere)

Proiectul, cu caracter interdisciplinar, are in vedere trei directii principale de cercetare: (I) obtinerea pe

Pentru obiectivele realizate parțial sau nerealizate se argumentează (max 1500 caractere)

Pentru obiectivele suplimentare se argumentează (max 1500 caractere)

6. Comisia la care s-a încadrat grantul

Cod Comisie 1
Cod Subcomisie 1D
Cod Domeniu 28

7. Durata proiectului(1-3 ani)

8. Finanțare

Suma alocată grant (RON)

An 1

An 2

An 3

Total

45.000 RON
1.150.000.000 RON

9. Analiză Financiară (conform tipului de grant și a cheltuielilor efectuate)

Denumire capitol buget	Total cheltuieli (RON)	prevazute	Total cheltuieli realizate(RON)
1. Cheltuieli de personal			
2. Cheltuieli indirecte (regie)			
3. Cheltuieli de informare documentare			
3.1 Cheltuieli materiale			
3.2. Mobilitati (vizite de studiu, participari la manifestări științifice interne și internaționale în concordanță cu tematica grantului, taxe de acces, cheltuieli de transport și cazare)			
4. Materiale, obiecte de inventar (materiale consumabile inclusiv reactivi, componente, costuri pentru acces la infrastructură de cercetare a terților)			
5. Costuri de valorificare a rezultatelor cercetării (cheltuieli de editare - publicare, acțiuni în vederea realizării temei de cercetare sau valorificare a rezultatelor)			
6. Cheltuieli de capital (echipamente, software-upgrading)			
7. Taxe de acces la laboratoare de specialitate (pentru proiectele de tip TD)			
Total			

13. Nerealizări / dificultăți întâmpinate în derularea grantului:**14. Sugestii privind raportarea:**

- simplificarea la maxim;

Director proiect

Conf. dr.
COSTICA CAIZER

(semnatura)

[Redacted signature]

DIRECTOR EC./CONTABIL ȘEF

Conf. dr. DINA CHICĂRESCU

(semnatura)

Ștampilă



RECTOR/DIRECTOR

Prof. dr.
(semnatura)

[Redacted signature]

Ștampilă

Anexa 6
EXECUTANT

BENEFICIAR

UNIVERSITATEA DE VEST TIMISOARA

UNIVERSITATEA 'POLITEHNICA' TIMISOARA

Nr. și data înregistrării

6369/09.06.05

Nr. și data înregistrării

6891/29.06.05

CONTRACT Nr. 6891/2005

anexă la contractul CNCSIS nr. 27688/14.03.2005, Tema 29 COD 648/2005

Art. 1 PĂRȚILE CONTRACTANTE

Universitatea "Politehnica" Timișoara, cu sediul în Timișoara, str. P. Victoriei nr. 2, județ Timiș, telefon 256-403000, fax 256-403021, având cont nr. RO38TREZ6215003XXX000210 deschis la Trezoreria Mun. Timișoara, cod fiscal 4269282, reprezentat prin Rector, Robu Nicolae, și Contabil Sef, Miclea Florian, în calitate de **BENEFICIAR**

și

(denumirea completă a instituției care reprezintă titularul contractului¹)
Universitatea de Vest Timișoara, cu sediul în Timișoara, cod poștal 300223, str. Bd. V. Pârvan nr. 4, județ Timiș, tel. 256-592111, fax 256-592311, cod fiscal 4250670, cont bancar nr. RO60TREZ6215003XXX000202 deschis la Trezoreria Mun. Timișoara, reprezentat prin Rector, Prof. Dr. Mihai Ioan, și Contabil Sef, Chilărescu Dorina, în calitate de **EXECUTANT**
s-a încheiat prezentul contract.

Art. 2 OBIECTUL CONTRACTULUI

2.1 Obiectul Contractului îl constituie realizarea și, respectiv, plata valorii contractului aprobat de Beneficiar (UPT).

2.2 Contractul de cercetare este identificat în Anexa I la prezentul Contract, prin număr de cod de atribuit de UPT.

Art. 3 DURATA CONTRACTULUI

Prezentul Contract intră în vigoare la data semnării și atribuirii numărului de contract la Beneficiar și este valabil până la data finalizării contractului de grant.

Art. 4 VALOAREA CONTRACTULUI

4.1 Valoarea totală a Contractului este de: ____ 25000 MII ____ lei.

Finantarea se va face din contractul CNCSIS nr. 27688/2005 cod 648, astfel:

a) un procent de 90% din valoarea înscrisă la pct. 4.1 pana la 15 august 2005, cu respectarea condițiilor de acordare avans conform legii si decontare faza finala conform pct. 5.1.12.

Art. 5 OBLIGAȚIILE PĂRȚILOR CONTRACTANTE

5.1 OBLIGAȚIILE EXECUTANTULUI

5.1.1 Răspunde de desfășurarea activităților de cercetare în conformitate cu conținutul și valoarea contractului aprobat.

¹ Se vor înscrie obligatoriu toate datele solicitate

13.1 Orice comunicare între părți, referitoare la îndeplinirea prezentului contract, trebuie să fie transmisă în scris.

13.2 Orice document scris trebuie înregistrat atât în momentul transmiterii, cât și în momentul primirii.

13.3 Comunicările dintre părți se pot face și prin telefon, telegramă, telex, fax sau e-mail, cu condiția confirmării în scris a primirii comunicării.

Art. 14 LEGEA APLICABILĂ CONTRACTULUI. LITIGII

14.1 Contractul va fi interpretat și executat conform legilor din România.

14.2 Orice litigiu intervenit în executarea prezentului contract se soluționează de către parti pe cale amiabilă.

14.3 În cazul imposibilității de soluționare conform alin.14.2, litigiile se soluționează de către instanțele competente, cu respectarea dispozițiilor procedurale în vigoare.

Art. 15 ANEXE

Următoarele anexe fac parte integrantă din prezentul contract:

Anexa I – Lista contractelor de cercetare pentru programul de tip A;

- 1) Anexa II – Deviz de cheltuieli;
- 2) Anexa III – Plan de activitate;
- 3) Anexa IV- Proces verbal de evaluare și avizare a rezultatelor (se anexează după faza finală);
- 4) Anexa V – Resursa umană care contribuie la realizarea proiectului;
- 5) Anexa A – Clauze speciale;
- 6) Anexa B - Contractarea și decontarea lucrărilor.

Prezentul contract s-a încheiat și semnat în 4 (patru) exemplare, toate având valoare de original, din care 2 (două) exemplare pentru **Executant** și 2 (două) pentru **Beneficiar**.

BENEFICIAR

Universitatea 'Politehnica' Timisoara,

Rector, Prof. Dr. ROBU Nicolae

Contabil șef,

MICLEA Florian

Oficiu juridic,

UNGUREANU Georgeta

Director de grant,

Conf. Dr. ȘTEFANESCU Mircea

EXECUTANT

Universitatea de Vest Timișoara,

Rector, Prof. Dr. MIHAI Ioan

Contabil șef,

CHILARESCU Doina

Oficiul juridic,

MILUTIN Ionela

Director de proiect,

Sef. lucr. Dr. CAIZER Costică

CUTANT

ANEXA I,
la contractul nr. _____

IVERSITATEA DE VEST TIMISOARA

LISTA CONTRACTELOR DE CERCETARE PE ANUL 2005

F	COD UPT	DIRECTOR PROIECT	TITLUL CONTRACTULUI	SUMA TOTALĂ APROBATĂ (MII LEI)	FAZA INTERMEDIARA		FAZA FINALA PENTRU ANUL CURENT	
					VALOARE (MII LEI)	TERMEN DE DECONTARE	VALOARE (MII LEI)	TERMEN DE DECONTARE
	6891	CAIZER COSTICA	STUDIUL PROPRIETATILOR MAGNETICE ALE NANOCOMPOZITELOR DE TIP $Ni(1-x)Zn(x)Fe(2)O(4)/SiO(2)$	25000	-	-	25000	31 OCT. 2005

AL: 25000 _ MII LEI

RECTOR / DIRECTOR,

Prof. Dr. Ioan Mihai

Director economic/ Contabil sef,

Chilarescu Doina

Aprobat prin HS nr. 37 din 17.07.2025