

REFERAT

**al Consiliului Studiilor Universitare de Doctorat al UVT privind aprobarea afilierii
la Școala doctorală de Științe Exacte și Științe ale Naturii
a doamnei C.S. I dr. Sfirloagă Paula**

CSUD, reunit la data de 11.03.2025 a analizat solicitarea de afiliere a candidatului C. S. I dr. ing. **Sfirloagă Paula**, domeniul de știință Chimie, și a decis aprobarea afilierii la Școala doctorală Științe Exacte și Științe ale Naturii.

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

_____ nu e cazul _____

Director CSUD

Prof. univ. dr. Florin-Alin Sava



Aprobat prin HS nr. 30 din 20.03.2025

REFERAT
al Consiliului Școlii Doctorale de Științe Exacte și Științe ale Naturii
privind avizarea afilierii la Școala doctorală de Științe Exacte și Științe ale Naturii,
domeniul Chimie
a doamnei C.S. I dr. Sfirloagă Paula

Consiliul Școlii Doctorale, convocat pentru exprimarea votului electronic la data de 04.04.2025 a analizat dosarul de afiliere la școala doctorală de Științe Exacte și Științe ale Naturii, pentru domeniul Chimie, de către candidata Sfirloagă Paula și a decis avizarea afilierii în cadrul IOSUD – UVT.

Motivare:

Afilierea doamnei Dr. Habil. Sfirloagă Paula este utilă în vederea consolidării domeniului Chimie din cadrul Școlii doctorale de Științe Exacte și Științele Naturii.

Director Școală Doctorală
Prof. univ. dr. Mihail Lungu

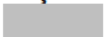


Aprobat prin HS nr. 30 din 20.03.2025



ANEXA 1

APROBAT,

Director Școală Doctorală,


Către Conducerea Consiliului Studiilor Universitare de Doctorat din cadrul IOSUD-UVT

Subsemnata, SFÎRLOAGĂ Paula, având funcția de CERCETĂTOR ȘTIINȚIFIC gradul I, din cadrul Institutului Național de Cercetare Dezvoltare pentru Electrochimie și Materie Condensată Timișoara, vă rog să binevoiți a lua în considerare afilierea mea la IOSUD-UVT, în calitate de conducător de doctorat în domeniul CHIMIE.

Menționez faptul că am obținut certificatul de abilitare și calitatea de conducător de doctorat în domeniul CHIMIE, fapt confirmat prin Ordinul ministrului nr. 3298, din data de 18.02.2025, pe care îl depun ca document atașat prezentei cereri.

Data,
27.02.2025

Semnătura,



Aprobat prin HS nr. 30 din 20.03.2025



ORDIN
privind acordarea atestatului de abilitare

Având în vedere:

- prevederile art. 7 alin. (1) din Ordonanța de Urgență nr. 153/2024 privind stabilirea unor măsuri la nivelul administrației publice centrale;
- prevederile Legii învățământului superior nr. 199/2023, cu modificările și completările ulterioare;
- prevederile OMENCS nr. 6129/2016 privind aprobarea standardelor minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior, a gradelor profesionale de cercetare-dezvoltare, a calității de conducător de doctorat și a atestatului de abilitare;
- prevederile OME nr. 5760/2024 pentru aprobarea Regulamentului de organizare și funcționare a Comisiei Naționale de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU);
- prevederile OME nr. 3998/2024 pentru aprobarea Metodologiei de acordare a atestatului de abilitare;
- prevederile din Anexa 1 la OMEC nr. 5229/2020 pentru aprobarea metodologiilor referitoare la acordarea atestatului de abilitare, acordarea titlului de doctor, precum și la soluționarea sesizărilor cu privire la nerespectarea standardelor de calitate sau de etică profesională, inclusiv cu privire la existența plagiatului, în cadrul unei teze de doctorat;
- decizia CNATDCU privind acordarea atestatului de abilitare, din data de 17.02.2025, referitoare la dosarul nr. F-Abil-5059/19.12.2024;
- referatul de aprobare în vederea elaborării ordinului privind acordarea atestatului de abilitare, înregistrat cu nr. 104/DGIU/17.02.2025;

În temeiul prevederilor art. 13 alin. (3) din Hotărârea Guvernului nr. 731/2024 privind organizarea și funcționarea Ministerului Educației, cu modificările ulterioare;

Ministrul Educației și Cercetării emite prezentul ordin:

Art. 1 – Se acordă atestatul de abilitare, în *domeniul de studii universitare de doctorat* Chimie, doamnei **SFÎRLOAGĂ PAULA**, titular la INSTITUTUL NAȚIONAL DE CERCETARE-DEZVOLTARE PENTRU ELECTROCHIMIE ȘI MATERIE CONDENSATĂ TIMIȘOARA.

Art. 2 – Prezentul ordin reprezintă atestatul de abilitare.

Art. 3 – Direcția Generală Învățământ Universitar, din cadrul Ministerului Educației și Cercetării, comunică prezentul ordin IOSUD Universitatea de Vest din Timișoara, unde a fost susținută teza de abilitare, cu obligația ca această instituție să îl comunice candidatului.

MINISTRU

DANIEL – OVIDIU DAVID



București,

Nr. 3298 data 18.02. 2025

DECLARAȚIE PE PROPRIE RĂSPUNDERE

Subsemnata, SFÎRLOAGĂ Paula, domiciliată în Comuna Ghiroda, Sat Giarmata Vii, Str. Plaiului, Nr. 2, identificată prin CNP 2760511250528, declar pe proprie răspundere că, în ultimii zece ani, nu am fost sancționată pentru încălcarea normelor de etică a cercetării, conform legislației și reglementărilor aplicabile în domeniu.

Data: 27.02.2025

Semnătura:



Aprobat prin HS nr. 30 din 20.03.2025



**Europass
Curriculum Vitae**

INFORMAȚII PERSONALE

Numele / Prenumele **Numele și prenumele
Sfirloaga Paula**

Adresa Ghiroda, Timis, ROMANIA

Telefon) 40 256 222119 Mobil: 40 724637570

Fax) 40 256 201382

E-mail paulasfirloaga@gmail.com

Nationalitatea Română

Data nașterii 11.05.1976

Gen F

**EXPERIENȚA
PROFESIONALĂ**

Perioada Noiembrie 2023-prezent

Ocupația sau poziția deținută CS I Dr. Ing.
Director Stiintific

Activități principale, responsabilități Coordonarea activitatilor, Management, cercetare științifică (inginerie chimică, electrochimie, protecția mediului)

Denumirea și adresa angajatorului Institutul National de C&D pentru Electrochimie și Materie Condensată
–INCEMC- Timișoara,
ROMANIA, Județul Timiș, 300569 Timișoara, str.Dr. A. Păunescu-
Podeanu, Nr.144

Tipul sectorului de activitate Cercetare & Dezvoltare

Perioada Ianuarie 2016-Noiembrie 2023

Ocupația sau poziția deținută CS I Dr. Ing.
Sef Departament Sinteze Chimice si Electrochimice

Activități principale, responsabilități Coordonarea activitatilor, Management, cercetare științifică (inginerie chimică, electrochimie, protecția mediului)

Denumirea și adresa angajatorului Institutul National de C&D pentru Electrochimie și Materie Condensată
–INCEMC- Timișoara,
ROMANIA, Județul Timiș, 300569 Timișoara, str.Dr.A. Păunescu-
Podanu, Nr.144

Tipul sectorului de activitate Cercetare & Dezvoltare

Perioada Iulie 2008-Octombrie 2013

Ocupația sau poziția deținută CS I Dr. Ing.
Sef Laborator Microscopie Electronice si Optica

Activități principale, Coordonarea activitatilor, Management, cercetare științifică (inginerie
responsabilități chimică, electrochimie, protecția mediului)

Denumirea și adresa angajatorului Institutul National de C&D pentru Electrochimie și Materie Condensată
–INCEMC- Timișoara,
ROMANIA, Județul Timiș, 300569 Timișoara, str.Dr.A. Păunescu-
Podanu, Nr.144

Tipul sectorului de activitate Cercetare & Dezvoltare

Funcția sau postul ocupat Cercetator stiintific I

Principalele activități și
responsabilități

- Obținerea si caracterizarea diferitelor materiale cu aplicatie in
protectia mediului, energie
- Caracterizarea materialelor prin Microscopie Electronica de
Baleiaj/Edax
- Propunere proiecte nationale/internationale

EDUCAȚIE ȘI FORMARE

Perioada (de la – până la) Iunie 2014-2015

Numele și tipul instituției de Universitatea de Vest, Timisoara
învățământ și al organizației
profesionale prin care s-a realizat
formarea profesională

Tipul calificării / diploma Studii Postdoctorale
obținută

Perioada (de la – până la) Octombrie 2007- Septembrie 2010

Numele și tipul instituției de Universitatea „Politehnica” din Timisoara
învățământ și al organizației
profesionale prin care s-a realizat
formarea profesională

Domeniul studiat / aptitudini Doctorat in Inginerie chimica
ocupationale

Tipul calificării / diploma obținută	Doctor
Nivelul de clasificarea formei de instruire/ învățământ în sistemul național sau internațional	Studii post-universitare
Perioada (de la – până la)	Octombrie 2003- Iulie 2005
Numele și tipul instituției de învățământ și al organizației profesionale prin care s-a realizat formarea profesională	Universitatea de Vest, Timisoara
Domeniul studiat / aptitudini ocupaționale	Optica si Spectroscopia Materialelor Laser
Tipul calificării / diploma obținută	Diploma de Master
Nivelul de clasificarea formei de instruire/ învățământ în sistemul național sau internațional	Studii post-universitare

Perioada (de la – până la)	Octombrie 1999-Iulie 2003
Numele și tipul instituției de învățământ și al organizației profesionale prin care s-a realizat formarea profesională	Universitatea de Vest, Timisoara
Domeniul studiat / aptitudini ocupaționale	Fizica
Tipul calificării / diploma obținută	Fizician
Nivelul de clasificarea formei de instruire/ învățământ în sistemul național sau internațional	Studii universitare

**APTITUDINI ȘI
COMPETENȚE PERSONALE**

dobândite în cursul vieții și
carierii dar care nu sunt
recunoscute neapărat printr-un
certificat sau diplomă

1. Obținerea de materiale anorganice nedopate si dopate, cu aplicatii in energie, protectia mediului.
 2. Metode de caracterizare
 3. Testarea efectului bactericid al zeolitului functionalizat cu TiO₂ nedopat si dopat
- Metode spectrometrice de analiza

Limba(ile) maternă(e) **Precizați limba(ile) maternă(e) (dacă este cazul specificați a doua limbă maternă)**

Limba(ile) străină(e) cunoscută(e) (Enumerați limbile cunoscute și indicați nivelul: excelent, bine, satisfăcător)

	Engleza	Franceza	Spaniola
abilitatea de a citi	Foarte Bine	Foarte Bine	Foarte Bine
abilitatea de a scrie	Bine	Foarte Bine	Bine
abilitatea de a vorbi	Bine	Bine	Bine

Permis de conducere Da

Aptitudini și competențe organizatorice

- ✓ Persoana organizata
- ✓ Atitudine de rezolvare a problemelor
- ✓ Responsabilitate, respect si încredere în sine

Alte aptitudini și competențe
Competențe care nu au mai fost menționate anterior

- 24 -27.09.2007 – Diploma de participare la Scoala de Vara: viziune si strategie”, organizat de INCEMC Timisoara si IMT Bucuresti;
- 27.10 -05.11.2008 – Curs in Managementul Proiectelor, Camera de Comert, Industrie si Agricultura, Timisoara;
- 18 -22.03.2010 – Certificat de participare - “Celule Solare. Aspecte practice si teoretice, prezentat de Prof. dr.dr.h.c. Joop Schoonman, din TU Delf, Olanda;
- 20-22 Iunie 2011- Certificat “Cromatografie de lichide cuplata cu spectrometrie de masa (HPLC-MS)”, Timisoara;

Anexa 1

Lucrari ISI publicate, Brevete, Proiecte de cercetare, Lucrari stiintifice prezentate (poster sau comunicare orala) la conferinte nationale/internationale; Proceeding-uri indexate ISI.

Activitatea stiintifica:

- ✓ 114 lucrari publicate in reviste ISI; 5 proceeding-uri indexate ISI; peste 77 lucrari prezentate la conferinte internationale (Anexa 1);
- ✓ **Membru in CORPUL DE EXPERTI DIN REGISTRUL NAȚIONAL AL EXPERTILOR PENTRU CERTIFICAREA ACTIVITĂȚII DE CERCETARE-DEZVOLTARE (REXCD), PRIN ORDINUL MCID NR.20242/13.02.2023; Domeniul de specializare inteligentă la nivel național: Materiale funcționale avansate.**
- ✓ **Expert evaluator în cadrul comisiei de evaluare științifică a Burselor Henri Coandă, domeniul Materiale funcționale avansate.**
- ✓ **Atestat de abilitare, in domeniul de studii universitare de doctorat Chimie, prin ORDINUL MINISTRULUI Nr. 3298/18.02.2025.**

Brevete

- **P. Sfirloaga, S. Novaconi, P. Vlazan, I. Grozescu, Procedeu de sinteza a materialelor pe baza de SnTe in camp ultrasonic cu sonotroda imersata, A/0035/2011.**

- C. Lazau, C. Bandas, **P. Sfirloaga**, S. Novaconi, I. Grozescu, *Procedeu de obtinere a zeolitilor naturali functionalizati cu nanocristale de TiO₂ nedopat prin metoda hidrotermala rapida*, A00252/22.03.2011.
- **P. Sfirloaga**, C. Mitrea, P. Vlazan, M. Poienar, A. Baracu, *Procedeu de obtinere a unei platforme sensitive pe baza de senzori cu unde acustice de suprafata pe baza de materiale cu structura perovskitica*, **Brevet Nr. 134619**, 30.05.2022.
- **P. Sfirloaga**, I. Balcu, D. Buzatu, C. Macarie, L. Cernescu, *Procedeu de obtinere a materialelor perovskitice hibride organic-anorganice*, A/00545/03.10.2023.
- **P. Sfirloaga**, B. Taranu, **Procedeu de obtinere a electrozilor modificali cu materiale perovskitice cu aplicatie in electroliza apei**, A/00552/05.10.2023.
- **P. Sfirloaga**, I. Balcu, C. Macarie, P. Vlazan, *Procedeu de obtinere a materialelor perovskitice de tipul YMnO₃*, A/00500/13.09.2023.
- **P. Sfirloaga**, A. E. Cata, I. M. C. Ienascu, A.-E. Lazar, N.-S. Tolea, *Procedeu de obtinere a unor materiale hibride pe baza de polivinilpirolidonă functionalizată cu structuri perovskitice*, A/00577/19.10.2023.

Proiecte de cercetare

Director de proiect:

🚦 **POC/1025/1/3 – Spin-off in cadrul proiectului "INO-SEN-Tehnologie INOvativa de realizare a SENzorilor pentru gaze de seră"; 2023.**

🚦 **PN-III-P2-2.1-Proiect experimental demonstrativ: Tehnologii Avansate pentru Detectarea cu Inalta Selectivitate a compusilor Organofosforici - Simulanți ai Agenților Neurotoxici in Aplicatii de Securitate Societala, 2022-2024.**

🚦 **PN-III-P2-2.1-Proiect experimental demonstrativ A new approach to the development of a sensor for selective monitoring of harmful gases using low-cost and eco-friendly materials (Ianuarie 2017-Iulie 2018).**

○ **Proiect postdoctoral: Advanced thermoelectric materials with perovskite structure for applications in energy recovery, POSDRU/159/1.5/S/137750: 18 luni (2014-2015).**

Responsabil de proiect:

- 🚦 **PN Materiale Hibride Organice–Anorganice: O Noua Abordare pentru Catalizatori Bifunctionali cu Performante Avansate in Descompunerea Electrochimica a Apei - PN 23 27 01 04 (2023-2026);**
- 🚦 **PN Nanotehnologii inovative pentru obtinerea de materiale hibride avansate cu aplicatii in protectia mediului - PN 19 22 02 01 (2019-2022);**
- 🚦 **PN Studies regarding the synthesis and characterization of binary compounds based on SnTe with advanced thermoelectric properties - PN 09 34 02 02 (2008-2011);**
- 🚦 **PN Development of ABO₃ type multifunctional materials and study of physicochemical properties – PN 1614 0305- (2016-2017).**
- 🚦 **PNII Innovative technology for biohydrogen production from wastewater as renewable energy source (BIOSIM) 49/2012 – (2016)**
- 🚦 **PN Studii privind sinteza si caracterizarea de compusi binari pe baza de SnTe cu proprietati termoelectrice avansate - 09 34 02 02**
- 🚦 **Membru in echipa de cercetare a 7 proiecte internationale si 27 de proiecte nationale**

Capitole de carte

- ✓ A Comparative Study Between Different Corrosion Protection Layers, Adina- Elena Segneanu, **Paula Sfirloaga**, Ionel Balcu, Nandina Vlatanescu and Ioan Grozescu, "Environmental and Industrial Corrosion - Practical and Theoretical Aspects", ISBN 978-953-51-0877-1, December 12, **2012**.
- ✓ Waste Water Treatment Methods, Adina Elena Segneanu, Cristina Orbeci, Carmen Lazau, **Paula Sfirloaga**, Paulina Vlazan, Cornelia Bandas and Ioan Grozescu, ISBN 978-953-51-0928-0, January 16, **2013**.
- ✓ Organic Compounds FT-IR Spectroscopy, Adina Elena Segneanu, Ioan Gozescu, Anamaria Dabici, **Paula Sfirloaga** and Zoltan Szabadai, Chemistry» Organic Chemistry» "Macro To Nano Spectroscopy", ISBN 978-953-51-0664-7, June 29, **2012**.
- ✓ Peptide and Amino Acids Separation and Identification from Natural Products, Ion Neda, Paulina Vlazan, Raluca Oana Pop, **Paula Sfarloaga**, Ioan Grozescu and Adina-Elena Segneanu, Chemistry» Analytical Chemistry» "Analytical Chemistry", ISBN 978-953-51-0837-5, November 7, **2012**.
- ✓ Synthesis methods of the oxides, Authors: Antoanetta Lungu, Paulina Vlazan, **Paula Sfirloagă**, Maria Poienar, Book: Oxide materials: fundamentals, challenges and perspectives, Cambridge Scholars, 2022.
- ✓ Methods of morpho-structural characterization and for determination of the electrical and magnetic properties of metallic oxides, **Paula Sfirloagă**, Maria Poienar, Paulina Vlazan, Antoanetta Lungu, Mihail Lungu, Iosif Malaescu, Catalin N. Marin, Aurel Ercuța, Book: Oxide materials: fundamentals, challenges and perspectives, Cambridge Scholars, 2022.
- ✓ Oxide materials with spinel structure, Paulina Vlăzan, Antoanetta Lungu, **Paula Sfirloagă**, Catalin N. Marin, Aurel Ercuța, Iosif Malaescu, Book: Oxide materials: fundamentals, challenges and perspectives, Cambridge Scholars, 2022.
- ✓ Ceramic materials with perovskite structure, **Paula Sfirloagă**, Paulina Vlazan, Catalin N. Marin, Iosif Malaescu, Book: Oxide materials: fundamentals, challenges and perspectives, Cambridge Scholars, 2022.
- ✓ Applications, Iosif Malaescu, Maria Poienar, **Paula Sfirloagă**, Paulina Vlazan, Antoanetta Lungu, Mihail Lungu, Catalin N. Marin, Aurel Ercuța, Book: Oxide materials: fundamentals, challenges and perspectives, Cambridge Scholars, 2022.

Timisoara
27.02.2025

- 1) Research Progress on Development of PVP-Ag-Doped LaMnO_3 Composites for Methyl Orange Degradation, Căta, Madalina-Gabriela Ivanovici, Paula Svera, Ioana Maria Carmen Ienascu, and **Paula Sfirloaga**, *Metals* **2025**, 15, 151.
- 2) A Comparative Analysis of the Electrical Properties of Silicone Rubber Composites with Graphene and Unwashed Magnetite, Malaescu, Iosif; **Sfirloaga, Paula**; Bunoiu, Octavian; Marin, Catalin N., *Materials*, **2024**, Article number 6006.
- 3) New PVP–Ag or Pd-Doped Perovskite Oxide Hybrid Structures for Water Splitting Electrocatalysis, Adina Căta, Bogdan-Ovidiu Tăranu, Ioana Maria Carmen Ienascu and **Paula Sfirloaga**, *Appl. Sci.* **2024**, 14, 1179.
- 4) Exploiting the Bi-doping effect on the properties of NaNbO_3 perovskite -type materials, Paulina Vlazan, Maria Poienar, Iosif Malaescu, Catalin N. Marin, Cristian Casut, **Paula Sfirloaga**, *Chemical Physics*, Volume 579, 1 March **2024**, 112203.
- 5) Dental Biopolymer Composites with Antibiotics, Bisphosphonate, and Hydroxyapatite for Possible Use in Bone Tissue Regeneration, Budiul, Mihaela; Maria Vlase, Gabriela; Negru, Daniel; Okolišan, Dorinel; Bradu, Ionela-Amalia; Tăşală, Alexandra; Pahomi, Alexandru; Vlase, Titus; Jumanca, Daniela; Galuscan, Atena; **Sfirloaga, Paula**; Carabă, Nicoleta; *Journal of Chemistry*; **2024**, Article number 6614044.
- 6) Experimental Investigations on the Electrical Conductivity and Complex Dielectric Permittivity of $\text{Zn}_x\text{Mn}_{1-x}\text{Fe}_2\text{O}_4$ ($x = 0$ and 0.4) Ferrites in a Low-Frequency Field, Iosif Malaescu, **Paula Sfirloaga**, Catalin N. Marin, Madalin O. Bunoiu and Paulina Vlazan, *Crystals* **2024**, 14, 437.
- 7) Experimental Investigations of the AC-Conductivity in NaTaO_3 Ceramic Materials Doped with Cu and Al Metal Ions, Malaescu, Iosif; **Sfirloaga, Paula**; Marin, Catalin N., *Metals*, **2024**, Article number 793.
- 8) Revealing the Impact of Ga and Y Doping on Thermal and Electrical Behavior of LaMnO_3 Ceramic Materials, Paulina Vlazan, Catalin Nicolae Marin, Iosif Malaescu, Gabriela Vlase, Titus Vlase, Maria Poienar, and **Paula Sfirloaga**, *Appl. Sci.* **2024**, 14, 1546.
- 9) Addressing electrocatalytic activity of metal-substituted lanthanum manganite for the hydrogen evolution reaction, **Sfirloaga, Paula**; Taranu, Bogdan-Ovidiu; Poienar, Maria; Vlazan, Paulina, *Surfaces and Interfaces*, Volume 39, **2023** Article number 102881.
- 10) Nanoplatform-based analysis for the detection of HER3 and HER4 for gastric cancer diagnosis, Gheorghe, D.-C., Stefan-Van Staden, R.-I., Ilie-Mihai, R.-M., **Sfirloaga, P.**, **2023**, *Nanotechnology* 34 (34), 345101.
- 11) A Cotton Fabric Composite with Light Mineral Oil and Magnetite Nanoparticles: Effects of a Magnetic Field and Uniform Compressions on Electrical Conductivity, Iacobescu, G.-E., Bunoiu, M., Bica, I., **Sfirloaga, P.**, Chirigiu, L.-M.-E., **2023**, *Micromachines* 14(6), 1113.
- 12) Some Brassicaceae Extracts as Potential Antioxidants and Green Corrosion Inhibitors, Ienaşcu, Ioana Maria Carmen; Căta, Adina; Chis, Adriana Aurelia; Ştefănuţ, Mariana Nela; **Sfirloagă, Paula**; Rusu, Gerlinde; Frum, Adina; Arseniu, Anca Maria; Morgovan, Claudiu; Rus, Luca Liviu; Dobrea, Carmen Maximiliana, **2023**, *Materials* 16(8), 2967.
- 13) The in-depth study of Romanian prehistoric ceramics: Late Neolithic/Eneolithic pottery and clay materials from the Foeni Tell-Orthodox cemetery in Timiş county, Vlase, Dan; Vlase, Gabriela; Ursuţ, Gabriela; **Sfirloaga, Paula**; Manea, Florin; Budiul, Mihaela; Rotaru, Andrei; Vlase, Titus, *Ceramics International* Volume 49, Issue 9, Pages 14941 - 14956 May **2023**.
- 14) Multimode Detection Platform Based on 3D Integrated Sensor for Fast On-Site Assay of Methylprednisolone in Its Pharmaceutical Formulation and Surface Water Samples, Stefan-Van Staden, Raluca-Ioana; Tuchi, Bianca-Maria; van Staden, Jacobus (Koos) Frederick; **Sfirloaga, Paula**, *Journal of the Electrochemical Society*, Volume 170, Issue 3 March **2023** Article number 037516.

- 15) 3D Stochastic Microsensors Based on Single-Walled Carbon Nanotubes Decorated with Gold Nanoparticles for Molecular Recognition and Determination of Heregulin- α and HER Family (HER1-4) in Biological Samples, Stefan-Van Staden, Raluca-Ioana; Cioates Negut, Catalina; **Sfirloaga, Paula**, Journal of the Electrochemical Society Volume 170, Issue 3 March **2023** Article number 037503.
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