

LISTA LUCRĂRILOR REPREZENTATIVE CARE SUSȚIN CONȚINUTUL TEZEI

1. P. Merghes, N. Varan, G. Ilia, I. Hulka, V. Simulescu, A SEM-EDX Study on the Structure of Phenyl Phosphinic Hybrids Containing Boron and Zirconium, *Gels*, 2023, 9(9), 706; <https://doi.org/10.3390/gels9090706> WOS:001073612100001. (Q1)
2. P. Merghes, G. Ilia, I. Hulka, V. Chiriac, N. Varan, V. Simulescu, The Influence of Boron on the Structure and Properties of Hybrid Compounds Containing Zirconium and Phosphorus, *Gels*, 2022, 8(10), 667. <https://doi.org/10.3390/gels8100667> WOS:000875261300001. (Q1)
3. G. Ilia, V. Simulescu, I. Hulka, Hybrids containing zirconium and phosphorus compounds obtained by sol-gel method, *Colloid and Polymer Science*, 2021, 299, 137-151. DOI: [10.1007/s00396-020-04780-8](https://doi.org/10.1007/s00396-020-04780-8) WOS:000586348600001.
4. G. Ilia, V. Simulescu, R. Gheonea, E. Crasmareanu, I. Hulka, Grafting on metal oxide surface of phenyl phosphinic acid by using solid-state process, *Journal of the Iranian Chemical Society*, 2021, 18(7), 1815-1823. <https://doi.org/10.1007/s13738-020-02153-0> WOS:000606178300002.
5. L. Macarie, M. Pekař, V. Simulescu, N. Plesu, S. Iliescu, G. Ilia, M. Tara-Lunga-Mihali, Properties in aqueous solution of homo- and copolymers of vinylphosphonic acid derivatives obtained by UV-curing, *Macromolecular Research*, 2017, 25(3), 214-221. <https://doi.org/10.1007/s13233-017-5026-8> WOS:000397986000003.
6. R. Gheonea, E. Crasmareanu, N. Plesu, S. Sauca, V. Simulescu, G. Ilia, New hybrid materials synthesized with different dyes by sol-gel method, *Hindawi Publishing Corporation, Advances in Materials Science and Engineering*, 2017. <https://doi.org/10.1155/2017/4537039> WOS:000410301400001.
7. R. Gheonea, C. Mak, E. Crasmareanu, V. Simulescu, N. Plesu, G. Ilia, Surface modification of SnO₂ with phosphonic acids, *Hindawi Publishing Corporation, Journal of Chemistry*, 2017. <https://doi.org/10.1155/2017/2105938> WOS:000394083800001.
8. V. Simulescu, M. Kalina, J. Mondek, M. Pekař, Long-term degradation study of hyaluronic acid in aqueous solutions without protection against microorganisms, *Carbohydrate Polymers*, 2016, 137, 664-668. <https://doi.org/10.1016/j.carbpol.2015.10.101> WOS:000366938200079. (Q1)
9. J. Mondek, M. Kalina, V. Simulescu, M. Pekař, Thermal degradation of high molar mass hyaluronan in solution and in powder; comparison with BSA, *Polymer Degradation and Stability*, 2015, 120, 107-113. <https://doi.org/10.1016/j.polymdegradstab.2015.06.012> WOS:000362926800013. (Q1)
10. V. Simulescu, J. Mondek, M. Kalina, M. Pekař, Kinetics of long-term degradation of different molar mass hyaluronan solutions studied by SEC-MALLS, *Polymer Degradation and Stability*, 2015, 111, 257-262. <https://doi.org/10.1016/j.polymdegradstab.2014.12.005> WOS:000348949000030. (Q1)