

Vasile Simulescu
Lista de lucrări

**Articole publicate în jurnale
indexate în Web of Science**

41 articole științifice (30 publicate în jurnale indexate în Web of Science, 165 de citări)

32 de postere și prezentări la conferințe și manifestări științifice

Un capitol de carte

h-index conform Web of Science: 8

1. 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, WOS:000586348600001.
2. L. Macarie, V. Simulescu, G. Ilia, Phosphonium-based ionic liquids used as reagents or catalysts, *Chemistry Select*, 2019, 4(32), 9285-9299, <https://doi.org/10.1002/slct.201901712>, WOS:000483732500005.
3. L. Macarie, V. Simulescu, G. Ilia, Ultrasonic irradiation used in synthesis of aminophosphonates, *Monatshefte für Chemie/Chemical Monthly*, 2019, 150(2), 163-171, DOI: 10.1007/s00706-018-2327-3, WOS:000457316200002.
4. V. Simulescu, G. Ilia, L. Macarie, P. Merghes, Sport and energy drinks consumption before, during and after training, *Science and Sports*, 2019, 34(1), 3-9, <https://doi.org/10.1016/j.scispo.2018.10.002>, WOS:000456081000009.
5. V. Simulescu, G. Ilia, Solid-phase synthesis of phosphorus derivatives, *Current Organic Chemistry*, 2019, 23(6), 679-688, <https://doi.org/10.2174/1385272823666190213112019>, WOS:000474205700003.
6. S. Popa, S. Boran, V. Simulescu, Collagen films obtained from collagen solutions characterized by rheology, *Materiale plastice*, 2017, 54(2), 359-361, WOS:000408702100036.
7. L. Macarie, M. Pekař, V. Simulescu, N. Plesu, S. Iliescu, G. Ilia, M. Tara-Lunga-Mihaili, 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.
8. 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.
9. 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.
10. E. Crasmareanu, C. A. Mak, R. Gheonea, V. Simulescu, G. Ilia, New magnetic phosphonate organic-inorganic hybrid materials, *Revista de Chimie*, 2016, 8, 1542-1546, WOS:000384514200028.
11. 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.
12. G. Ilia, S. Iliescu, A. Popa, A. Visa, B. Maranescu, V. Simulescu, M. Pekař, V. Badea, Polyalkylene-H-phosphonates obtained by direct esterification and oxidation from hypophosphorus acid and ethylene glycol, *Journal of Macromolecular Science, Part A: Pure and Applied Chemistry*, 2016, 53(1), 49-54, <https://doi.org/10.1080/10601325.2016.1110458>, WOS:000367550100008.

13. V. Simulescu, G. Ilia, E. Crasmareanu, Synthesis of organic compounds containing phosphorus by using ultrasounds, *Mini-Reviews in Organic Chemistry*, 2016, 13(4), 289-298, DOI: 10.2174/1570193X13666160609123041, WOS:000380839800005.
14. 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.
15. 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.
16. G. Ilia, V. Simulescu, C.A. Mak, E. Crasmareanu, The use of transesterification method for obtaining phosphorus-containing polymers, *Advances in Polymer Technology*, 2014, 33(S1), 21437, <https://doi.org/10.1002/adv.21437>, WOS:000346980600002.
17. G. Ilia, E. Crasmareanu, D. Pascut, L. Darabanti, V. Simulescu, The use of mass spectrometry in obstetric and gynecology, *Central European Journal of Chemistry*, 2013, 11(5), 645-654, <https://doi.org/10.2478/s11532-013-0219-2>, WOS:000315482000001.
18. E. Crasmareanu, V. Simulescu, G. Ilia, Synthesis by reversed phase transfer catalysis and characterization of naphthol AS-D pigment, Hindawi Publishing Corporation, *Journal of Chemistry*, 2013, <https://doi.org/10.1155/2013/545374>, WOS:000324181800001.
19. E. Crasmareanu, N. Plesu, S. Muntean, M. Mihali, V. Simulescu, G. Ilia, An EIS and UV-Vis Spectroscopy Assay for Aggregation of Monoazo Acid Dye, *Revista de chimie*, 2012, 63 (8), 768-771, WOS:000309782900005.
20. V. Simulescu, I. Tatarova, H. Ehmann, M. Reischl, K. Stana-Kleinschek, V. Ribitsch, Cationic surfactants adsorption on different hydrophobic/hydrophilic charged polymer surfaces - A comparative study, *Abstracts of papers of the American Chemical Society*, 2012, 243, ISSN 0065-7727, WOS:000324475103668.
21. E. Crasmareanu, V. Simulescu, G. Ilia, Reversed phase transfer catalysis used in the synthesis of red pigments, *Revista de chimie*, 2011, 62 (3), 313-317, WOS:000289814300012.
22. V. Simulescu, E. Crasmareanu, G. Ilia, Synthesis, Properties and Structures of Phosphorus-Nitrogen Heterocycles, *Heterocycles*, 2011, 83 (2), 275-291, DOI: 10.3987/REV-10-685, WOS:000287562900002.
23. V. Simulescu, G. Ilia, Macrocycles and cavitands containing phosphorus, *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, 2010, 66 (1-2), 3-14, <http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/s10847-009-9641-7>, WOS:000273753100002.
24. R. Tudose, E. M. Mosoarca, V. Simulescu, V. Sasca, W. Linert, O. Costisor, Mixed-ligand complexes of iron(II), iron(III), copper(II), and cobalt(II) with pyrazolonic and 2,2'-bipyridine ligands, *Journal of Coordination Chemistry*, 2010, 63 (24), 4358-4366, <https://doi.org/10.1080/00958972.2010.539683>, WOS:000478618600001.
25. E. M. Mosoarca, I. Labadi, L. Sajti, R. Tudose, V. Simulescu, W. Linert, O. Costisor, Synthesis and thermal behavior of copper(II) complexes containing N,N'-tetra(4-antipyrilmethyl)-1,2-diaminoethane as ligand, *Studia Universitatis Babes-Bolyai, Chemia*, 2010, 2(1), 89-96, WOS:000289655500008.
26. R. Caprita, A. Caprita, G. Ilia, I. Cretescu, V. Simulescu, Laboratory procedures for assessing quality of soybean meal, *Proceedings of the World Congress on Engineering and Computer Science*

(WCECS), 2010, 1, 791-794, WOS:000292889100154.

27. N. Kristen, V. Simulescu, A. Vüllings, A. Laschewsky, R. Miller, R. v. Klitzing, No charge reversal at foam film surfaces after addition of oppositely charged polyelectrolytes?, *Journal of Physical Chemistry B*, 2009, 113 (23), 7986-7990, <https://doi.org/10.1021/jp902369d>, WOS:000266679200005.
28. V. Simulescu, E. Manev, G. Ilia, Drainage and stability of foam films from aqueous solutions of single surfactant $C_{12}E_6$, *Optoelectronics and Advanced Materials*, 2009, 3 (2), 155-159, WOS:000264239300016.
29. V. Simulescu, J. Angarska, E. Manev, Drainage and critical thickness of foam films from aqueous solutions of mixed nonionic surfactants, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 2008, 319 (1-3), 21-28, <https://doi.org/10.1016/j.colsurfa.2007.03.047>, WOS:000257046000005.
30. M. Drehe, V. Simulescu, G. Ilia, Progress in the development of flame retardants, *Reviews in Chemical Engineering*, 2008, 24 (6), 263-302, <https://doi.org/10.1515/REVCE.2008.24.6.263>, WOS:000273062600001.

Articole BDI

1. R. Gheonea, C. Mak, E. Crasmareanu, V. Simulescu, N. Plesu, G. Ilia, Hybrid materials obtained with iron oxides, *Chemical Bulletin of "Politehnica" University of Timisoara*, 2016, 61(1), 31-34.
2. J. Mondek, V. Simulescu, M. Pekař, New Kinetic Models in Biopolymer Degradation: Long-Term Study of Hyaluronan Samples, XIV workshop of physical chemists and electrochemists, 2014, ISBN: 978-80-210-6842, 199-202.
3. B. Maranescu, A. Visa, V. Simulescu, Synthesis and Characterization of New Unsaturated Layered Metal Phosphonates, *Proceedings of the 13th Timisoara's Academic Days*, Timisoara, Romania, 2013, 55-59.
4. E. Crasmareanu, V. Simulescu, C. Mak, G. Ilia, Characterization of organic-inorganic hybrid materials obtained by incorporation of some red pigments in SiO_2 gels by SEM method, *Proceedings of the 18th international symposium on analytical and environmental problems*, Szeged, Hungary, 2012, 14-17.
5. A. Visa, B. Maranescu, A. Bucur, V. Simulescu, Design and synthesis of a diphosphonate metal-organic framework, *Proceedings of the 18th international symposium on analytical and environmental problems*, Szeged, Hungary, 2012, 257-260.
6. A. Caprita, R. Caprita, V. Simulescu, R. Drehe, The effect of temperature on soluble dietary fiber fraction in cereals, *Journal of Agroalimentary Processes and Technologies*, 2011, 17(3), 214-217.
7. A. Caprita, R. Caprita, V. Simulescu, R. Drehe, Water extract viscosities correlated with soluble dietary fiber molecular weight in cereals, *Journal of Agroalimentary Processes and Technologies*, 2011, 17(3), 242-245.
8. A. Caprita, R. Caprita, V. Simulescu, R. Drehe, The effect of thermal processing on soluble dietary fiber fraction in barley, *International Journal of Arts and Sciences: Technology and Science*, ISSN: 1944 - 6934, 4(20), 2011, 261-265.
9. A. Caprita, R. Caprita, V. Simulescu, R. Drehe, Dietary fibre: chemical and functional properties, *Journal of Agroalimentary Processes and Technologies*, 2010, 16(4), 406-416.
10. V. Simulescu, A. Caprita, R. Caprita, Effect of concentration and extraction condition on wheat water extracts viscosities, *Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-*

Napoca. Agriculture, 2010, 67 (2), 517, ISSN 1843-5246.

11. V. Simulescu, J. Angarska, E. Manev, Kinetic stability of foam films from aqueous solutions of single and mixed nonionic surfactants, Ann. University of Shumen, 2007, XVII B2, 132-148.

Capitol de carte

V. Simulescu, G. Ilia, Metal polymers, in Recent Research Developments in Applied Polymer Science, 2009, 4 (1), 85-138, ISBN: 978-81-308-0347-0.

Postere și prezentări la conferințe

1. V. Simulescu, G. Ilia, I. Hulka, SEM and EDX studies of new organic-inorganic hybrids containing zirconium and phosphorus compounds, New Trends and Strategies in the Chemistry of Advanced Materials, Timișoara, 2019.

2. V. Simulescu, G. Ilia, Organic-inorganic hybrids containing phosphorus compounds, NANO-modeling of strategic materials for knowledge economy, Timișoara, 2018.

3. V. Simulescu, G. Ilia, Hybrids containing zirconium and phosphorus compounds obtained by sol-gel method, New Trends and Strategies in the Chemistry of Advanced Materials, Timișoara, 2018.

4. V. Simulescu, M. Pekař, L. Macarie, N. Plesu, S. Iliescu, G. Ilia, M. Tara-Lunga Mihali, SEC-MALLS characterization of new synthesized polymers of vinylphosphonic acid derivatives, New Trends and Strategies in the Chemistry of Advanced Materials, Timișoara, 2017.

5. E. Crasmareanu, R. Gheonea, V. Simulescu, G. Ilia, Grafting of SnO₂ on phenyl-phosphonic acids, New Trends and Strategies in the Chemistry of Advanced Materials, Timișoara, 2017.

6. V. Simulescu, J. Mondek, M. Kalina, M. Pekař, G. Ilia, The use of SEC-MALLS method to study the biopolymers degradation, New Trends and Strategies in the Chemistry of Advanced Materials, Timișoara, 2016.

7. V. Simulescu, J. Mondek, M. Pekař, Comparison of enzymatic, thermal and long-term degradation of hyaluronic acid in aqueous solution 4th International Conference on Multifunctional, Hybrid and Nanomaterials, Sitges, 2015.

8. V. Simulescu, J. Mondek, A. Kargerová, M. Pekař, Enzymatic and long-term degradation of hyaluronic acid studied by SEC-MALLS, Asian Conference on Engineering and Natural Sciences, Tokio, 2015.

9. V. Simulescu, J. Mondek, M. Pekař, SEC-MALLS study of hyaluronic acid and BSA thermal degradation in powder and in solution, XIII International Conference on Biology, Environment and Chemistry, Zurich, 2015.

10. M. Žitnan, V. Simulescu, M. Pekař, Fluorescence correlation spectroscopy and SEC-MALLS measurements of the activity of hyaluronidase on fluorophore labeled hyaluronan, Focus on Microscopy, Göttingen, 2015.

11. M. Chytil, P. Hájovská, V. Simulescu, A. Sereda, Overview of the Polysaccharide-Protein Complexes, 6th Chemistry and Life Meeting, Brno, 2015.

12. E. Crasmareanu, C.A. Mak, V. Simulescu, G. Ilia, The synthesis and characterization of composite materials, New Trends and Strategies in the Chemistry of Advanced Materials, Timișoara, 2015.

13. V. Simulescu, J. Mondek, M. Kalina, M. Pekař, Long-term degradation study of hyaluronic acid aqueous solutions by using SEC-MALLS, Bioorthogonal Chemistry Meeting of the Division of Biochemistry of the German Chemical Society, Berlin, 2014.

14. E. Crasmareanu, C.A. Mak, V. Simulescu, G. Ilia, The synthesis of phosphonate organic-inorganic

- hybrid materials, *New Trends and Strategies in the Chemistry of Advanced Materials*, Timișoara, 2014.
15. V. Simulescu, S. Obruča, M. Pekař, The use of SEC-MALS to study the degradation of pullulan and hyaluronic acid, 15th YUCOMAT conference, Herceg Novi, 2013.
 16. E. Crasmareanu, V. Simulescu, I. Creanga, G. Ilia, Incorporation of Red Pigments in Sol-Gel TiO₂, *New Trends and Strategies in the Chemistry of Advanced Materials*, Timișoara, 2010.
 17. C. Cretu, L. Avram, V. Simulescu, V. Sasca, The thermic behavior of Ni(II) complexes, *New Trends and Strategies in the Chemistry of Advanced Materials*, Timișoara, 2010.
 18. V. Simulescu, The use of mass spectrometry in organic chemistry, *Contributions of young researchers at development of research in Chemistry*, Timișoara, 2010.
 19. N. Kristen, V. Simulescu, R. v. Klitzing, Tuning of interactions in foam films from oppositely charged polyelectrolyte/surfactant mixtures, DPG-Verhandlungen, CPP6: Thin films, Dresda, 2009.
 20. N. Kristen, V. Simulescu, R. v. Klitzing, The effect of polyelectrolytes on the stability of thin liquid films, International Conference "Colloidal systems in external fields" - 16th Ostwald Colloquium, Leipzig, 2008.
 21. N. Kristen, V. Simulescu, R. v. Klitzing, Control of foam film (de)stability by addition of polyelectrolytes, 22th ECIS, Cracowia, 2008.
 22. N. Kristen, V. Simulescu, R. v. Klitzing, Polyelectrolytes and Surfactants in Thin Liquid Films, 7th Liquid Matter Conference, Lund, 2008.
 23. N. Kristen, V. Simulescu, R. v. Klitzing, The effect of polyelectrolytes on stability and interactions in foam films, 17th International Symposium on Surfactants Solutions, Berlin, 2008.
 24. N. Kristen, V. Simulescu, R. v. Klitzing, Effect of oppositely charged polyelectrolytes on the stability of free-standing surfactant films, *Polyelectrolytes*, Coimbra, 2008.
 25. N. Kristen, V. Simulescu, R. v. Klitzing, Polyelectrolyte-surfactant interactions in foam films, DPG-Verhandlungen, CPP14: Membranes, Berlin, 2008.
 26. N. Kristen, V. Simulescu, R. Makuska, R. v. Klitzing, Correlation between polyelectrolyte-surfactant interactions and forces in foam, Meeting of the German Colloid Society, Mainz, 2007.
 27. V. Simulescu, R. v. Klitzing, Foam films containing polyelectrolytes, MCRTN-SOCON 3rd Project Meeting, Stockholm, 2007.
 28. V. Simulescu, J. Angarska, E. Manev, Drainage and stability of thin liquids films from mixed surfactants solutions, 20th ECIS - 18th ECIC, Hungarian Academy of Sciences, Budapesta, 2006.
 29. C. Vassillieff, E. Manev, B. Nickolova, V. Simulescu, Thinning of foam films of micellar surfactant solutions, 20th ECIS - 18th ECIC, Hungarian Academy of Sciences, Budapesta, 2006.
 30. V. Simulescu, E. Manev, Drainage and stability of thin liquids films, MCRTN-SOCON 2nd Project Meeting, Budapesta, 2006.
 31. V. Simulescu, J. Angarska, E. Manev, Drainage and stability of thin liquids films from non-ionic surfactant solutions, MCRTN-SOCON Summer School, Université de Physique des Solides, Paris, 2006.
 32. V. Simulescu, S. Sauca, M. Drehe, L. Macarie, G. Ilia, Synthesis of some perfluoroacetyl phosphonic acids derivatives, Congrès SFC-EuroChem, Université Henri Poincaré, Vandoeuvre-les-Nancy, 2005.

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