

Articole științifice – selecție

- (1) Polymer Induced Aggregation of Dye Molecules
B. C. Simionescu, G. Smets, *Makromol. Chem., Suppl.*, 1, 249 (1975)
- (2) Polymer Induced Aggregation of Dye Molecules. Influence of the Attachment of Dye Molecules as Side Groups
G. Smets, B. C. Simionescu, *Makromol. Chem.*, 178, 2719 (1977)
- (3) Porphyrins and the Evolution of Biosystems
C. I. Simionescu, R. Mora, B. C. Simionescu, *Bioelectrochem. Bioenerg.*, 5, 1 (1978)
- (4) Porphyrin-Like Compounds Genesis under Simulated Abiotic Conditions
C. I. Simionescu, B. C. Simionescu, R. Mora, M. Leancă, *Origins of Life*, 9, 103 (1978)
- (5) Résultats préliminaires sur la synthèse abiotique des métalloporphyrines
C. I. Simionescu, B. C. Simionescu, R. Mora, M. Leancă, M. Vasilescu, *C. R. Acad. Sci. (Paris)*, D 286, 1021 (1978)
- (6) Synthèse de quelques acides monocarboxyliques en conditions abiotiques simulées
C. I. Simionescu, B. C. Simionescu, M. Leancă, R. Mora, D. Mancaș, *C. R. Acad. Sci. (Paris)*, C 288, 453 (1979)
- (7) Plasma-Induced Polymerization. 9. "Living" Radical Copolymerization of Methyl Methacrylate and Styrene
B. C. Simionescu, M. Popa, S. Ioan, C. I. Simionescu, *Polym. Bull.*, 6, 415 (1982)
- (8) Unconventional Radical Polymerizations
C. I. Simionescu, B. C. Simionescu, *Pure Appl. Chem.*, 56, 427 (1984)
- (9) Plasma-Induced Living Radical Copolymerization
C. I. Simionescu, B. C. Simionescu, S. Ioan, *J. Macromol. Sci. - Chem.*, A 22, 765 (1985)
- (10) Solution Properties of Ultrahigh Molecular Weight Polymers. 5. Conformational Changes of Butyl Methacrylate – Styrene Copolymers in Dilute Solution
C. I. Simionescu, B. C. Simionescu, S. Ioan, *Macromolecules*, 18, 1995 (1985)
- (11) On the Copolymerization Model and Microstructure of Methyl Acrylate – Styrene Radical Copolymer. Influence of ZnCl₂
C. I. Simionescu, V. Bărboiu, B. C. Simionescu, V. Talmaciu, C. Sava, *J. Polym. Sci.: Part A: Polym. Chem.*, 24, 851 (1986)
- (12) Solution Properties of Ultrahigh Molecular Weight Polymers. 11. A Viscometric Study on the Excluded Volume Effect of Poly(butyl methacrylate)
C. I. Simionescu, B. C. Simionescu, I. Neamțu, S. Ioan, *Polymer*, 28, 165 (1987)
- (13) Solution Properties of Ultrahigh Molecular Weight Polymers. 13. Viscosity – Molecular Weight Relationships and Unperturbed Dimensions of Poly(butyl methacrylate) in Various Solvents
C. I. Simionescu, S. Ioan, B. C. Simionescu, *Eur. Polym. J.*, 23, 69 (1987)
- (14) Solution Properties of Ultrahigh Molecular Weight Polymers. VII. Conformational

Characteristics of Poly(butyl methacrylate)

B. C. Simionescu, S. Ioan, C. I. Simionescu, *J. Polym. Sci.: Part B: Polym. Phys.*, 25, 829 (1987)

(15) Solution Properties of Ultrahigh Molecular Weight Polymers. 15. A Viscometric Study of Poly(isobutyl methacrylate) in Different Solvents

B. C. Simionescu, S. Ioan, A. Flondor, C. I. Simionescu, *Angew. Makromol. Chem.*, 152, 121 (1987)

(16) Synthesis of Polyester-Poly(vinyl monomer) Block Copolymers

C. I. Simionescu, E. Comăniță, V. Harabagiu, B. C. Simionescu, *Eur. Polym. J.*, 23, 921 (1987)

(17) Synthesis of Block Copolymers Containing Polydimethylsiloxane

V. Harabagiu, V. Hamciuc, D. Giurgiu, B. C. Simionescu, C. I. Simionescu, *Makromol. Chem., Rapid Commun.*, 11, 433 (1990)

(18) Interpretation of Long-Chain Structure from Dilute Solution Properties of Ultrahigh Molecular Weight Polymers

M. Bercea, S. Ioan, B. C. Simionescu, C. I. Simionescu, *Polym. Bull.*, 27, 551 (1992)

(19) Shear Rheology of Semidilute Poly(methyl methacrylate) Solutions

M. Bercea, C. Peiti, B. C. Simionescu, P. Navard, *Macromolecules*, 26, 7095 (1993)

(20) Ionic Polymers. I. Poly(vinyltoluene-co-divinylbenzene) Networks and some Chemical Transformations

C. Luca, V. Neagu, I. Poinescu, B. C. Simionescu, *Angew. Makromol. Chem.*, 222, 1 (1994)

(21) Solution Polymerization of Vinyl Monomers in the Presence of Poly(N-acetyliminoethylene) Macroazoinitiators

C. I. Simionescu, G. David, A. Ioanid, V. Paraschiv, G. Riess, B. C. Simionescu, *J. Polym. Sci.: Part A: Polym. Chem.*, 32, 3123 (1994)

(22) The Influence of Branching on Inter- and Intramolecular Interaction Parameters of Polymer/Solvent Systems

C. Ioan, S. Ioan, B. C. Simionescu, *J. Macromol. Sci.: Pure Appl. Chem.*, A 32, 8 - 9, 1589 (1995)

(23) Synthesis and Characterization of Some Epoxy Resins Bearing Azomethine Groups

A. Mija, C. N. Cașcaval, Gh. Stoica, D. Rosu, B. C. Simionescu, *Eur. Polym. J.*, 32, 779 (1996)

(24) Ionic Polymers. III. Sorption of Fe (III) Ions on New Crosslinked Ionic Polymers Based on 4-vinylpyridine : Divinylbenzene Copolymers

V. Guțanu, C. Luca, C. Turtă, V. Neagu, V. Sofranschi, M. Cherdivarenco, B. C. Simionescu, *J. Appl. Polym. Sci.*, 59, 1371 (1996)

(25) Polyelectrolyte Complexes. I. Synthesis and Characterization of Some Insoluble Polyanion – Polycation Complexes

S. Drăgan, M. Cristea, C. Luca, B. C. Simionescu, *J. Polym. Sci.: Part A: Polym. Chem.*, 34, 3485 (1996)

(26) Block and Graft Copolymers with Polysiloxane and Poly(N-acetyliminoethylene) Sequences

C. I. Simionescu, M. Rusa, G. David, M. Pinteală, V. Harabagiu, B. C. Simionescu, *Angew. Makromol. Chem.*, 253, 139 (1997)

(27) Stabilization of Emulsion Polymerization by Block and Graft Copolymers with Polysiloxane and Poly(N-acetyliminoethylene) Sequences

C. I. Simionescu, G. David, V. Alupei, M. Rusa, A. Ioanid, B. C. Simionescu, *Angew. Makromol. Chem.*, 255, 17 (1998)

(28) Synthesis of Poly(styrene – dimethylsiloxane) Block Copolymers: Influence of the Phase Separated Morphologies on the Thermal Behaviour

D. Rosati, M. Perrin, P. Navard, V. Harabagiu, M. Pinteală, B. C. Simionescu, *Macromolecules*, 31, 4301 (1998)

(29) Siloxane and N-acetyliminoethylene Based Copolymers Obtained by Combined Polymer Synthesis Techniques

B. C. Simionescu, V. Harabagiu, G. David, M. Pinteală, V. Lungu, *Mol. Cryst. Liquid Cryst.*, 354, 269 (2000)

(30) Polymerization of 2-substituted 2-oxazolines Induced by Photocationic Initiators

M. Rusa, G. David, B. C. Simionescu, J. Couve, M. J. M. Abadie, *Macromol. Chem. Phys., Rapid Commun.*, 22, 372 (2001)

(31) Synthesis and Characterisation of Thermomesogenic Polysiloxanes with 2,5-dihydropyrrolo[3,4-c]pyrrole-1,4-dione Units in the Main Chain

M. Horn, Y. Hepuzer, Y. Yagci, B. Bilgin-Eran, U. Cernenco, V. Harabagiu, M. Pinteală, B. C. Simionescu, *Eur. Polym. J.*, 38, 2197 (2002)

(32) Detection of Toluene Dissolved in Water by Using PCS Fibers Excited by an Inclined Collimated Beam

V. Matejec, M. Chomat, D. Berkova, J. Mrazek, R. Ardeleanu, V. Harabagiu, M. Pinteala, B. C. Simionescu, *Sensors and Actuators B*, 90, 204 (2003)

(33) Concentration- and pH-Dependent Conformational Changes and Aggregation of Block Copolymers of Poly(methacrylic acid) and Poly(dimethylsiloxane) in Aqueous Media, Based on Fluorescence Spectra of Pyrene and Potentiometry

M. Pinteală, V. Epure, V. Harabagiu, B. C. Simionescu, S. Schlick, *Macromolecules*, 37, 4623 (2004)

(34) Synthesis and Characterization of Persilylated Cyclodextrins

V. Harabagiu, B. C. Simionescu, M. Pinteală, C. Merrienne, J. Mahuteau, P. Guegan, H. Cheradame, *Carbohydr. Polym.*, 56, 301 (2004)

(35) Inclusion Complexes of 5-Flucytosine with β -Cyclodextrin and Hydroxypropyl- β -Cyclodextrin: Characterization in Aqueous Solution and in Solid State

M. Spulber, M. Pinteală, A. Fifere, V. Harabagiu, B. C. Simionescu, *J. Incl. Phenom. Macrocycl. Chem.*, 62, 117 – 125 (2008)

(36) Rapid Deswelling Response of Poly(N-isopropylacrylamide)/Poly(2-alkyl-2-oxazoline)/Poly(2-hydroxyethyl methacrylate) Hydrogels

G. David, B. C. Simionescu, A.-C. Albertsson, *Biomacromolecules*, 9, 1678 – 1683 (2008)

- (37) Polydimethylsiloxane Modified Chitosan. Part III: Preparation and Characterization of Hybrid Membranes
D. Enescu, V. Hamciuc, R. Ardeleanu, M. Cristea, A. Ioanid, V. Harabagiu, B. C. Simionescu, *Carbohydr. Polym.*, 76, 268 – 278 (2009)
- (38) Mild and selective oxidation of cellulose fibers in the presence of N-hydroxyphthalimide
S. Coșeri, G. Nistor, L. Fras, S. Strnad, V. Harabagiu, B. C. Simionescu, *Biomacromolecules*, 10 (8), 2294 – 2299 (2009)
- (39) New cationic hydrophilic and amphiphilic polysaccharides synthesized by one pot procedure
M. Nichifor, M. C. Stanciu, B. C. Simionescu, *Carbohydr. Polym.*, 82 (3), 965 – 975 (2010)
- (40) Entrapment and release of drugs by a strict “on-off” mechanism in pullulan microspheres with pendant thermosensitive groups
G. M. Fundeanu, M. G. Constantin, I. I. Oanea, V. Harabagiu, P. Ascenzi, B. C. Simionescu, *Biomaterials*, 31 (36), 9544 – 9553 (2010)
- (41) Hydrodynamic properties of some cationic amphiphilic polysaccharides in dilute and semi-dilute aqueous solutions
M. Nichifor, M. C. Stanciu, L. Ghimici, B. C. Simionescu, *Carbohydr. Polym.*, 83 (4), 1887 – 1894 (2011)
- (42) Chain packing versus chain mobility in semialiphatic BTDA-based copolyimides
M. Cristea, D. Ioniță, C. Hulubei, D. Țîmpu, D. Popovici, B. C. Simionescu, *Polymer*, 52 (8), 1820 – 1828 (2011)
- (43) Synthesis and structural characterization of 1-(3-aminopropyl)silatrane and some new derivatives
A. - M. - C. Dumitriu, M. Cazacu, S. Shova, C. Turtă, B. C. Simionescu, *Polyhedron*, 33 (1), 119 – 126 (2012)
- (44) Effect of Cross-Linking Methods on Structure and Properties of Poly(ϵ -caprolactone) Stabilized Hydrogels Containing Biopolymers
G. David, M. Cristea, C. Balhui, D. Țîmpu, F. Doroftei, B. C. Simionescu, *Biomacromolecules*, 13, 2263-2272 (2012)
- (45) Imino-chitosan biodynamers
L. Marin, B. Simionescu, M. Barboiu, *Chem. Commun.*, 48, 8778 – 8780 (2012)
- (46) Oxidized cellulose - Survey of the most recent achievements
S. Coșeri, G. Biliuță, B. C. Simionescu, K. Stana-Kleinschek, V. Ribitsch, V. Harabagiu, *Carbohydr. Polym.*, 93 (1), 207 – 215 (2013)
- (47) Calcium Carbonate–Magnetite–Chondroitin Sulfate Composite Microparticles with Enhanced pH Stability and Superparamagnetic Properties
M. Mihai, V. Socoliuc, F. Doroftei, E. - L. Ursu, M. Aflori, L. Vekas, B. C. Simionescu *Cryst. Growth Des.*, 13 (8), 3535 – 3545 (2013)
- (48) Out-of-Water Constitutional Self-Organization of Chitosan-Cinnamaldehyde Dynagels

- L. Marin, S. Moraru, M. -C. Popescu, A. Nicolescu, C. Zgardan, B. C. Simionescu, M. Bărboiu, *Chemistry – A Eur. J.*, 20 (16), 4814 – 4821 (2014)
- (49) Degradation Mechanism Induced by Psoriasis in Human Fingernails: A Different Approach
A. Coroabă, T. Pinteală, A. Chiriac, A. E. Chiriac, B. C. Simionescu, M. Pinteală, *J. Investigative Dermatology*, 136 (1), 311 – 313 (2016)
- (50) Multivalent polyrotaxane vectors as adaptive cargo complexes for gene therapy
R. Ardeleanu, A. Dascălu, A. Neamțu, D. Peptanariu, C. M. Urîtu, S. S. Maier, A. Nicolescu, B. C. Simionescu, M. Bărboiu, M. Pinteală, *Polymer Chem.*, 9 (7), 845 – 859 (2018)
- (51) Inhibition of bacterial alpha-, beta- and gamma-class carbonic anhydrases with selenazoles incorporating benzenesulfonamide moieties
A. Angeli, M. Pinteală, S. S. Maier, S. Del Prete, C. Capasso, B. C. Simionescu, C. T. Supuran, *J. Enzyme Inhibition Medicinal Chem.*, 34 (1), 244 – 249 (2018)
- (52) Entrapment of N-Hydroxyphthalimide Carbon Dots in Different Topical Gel Formulations: New Composites with Anticancer Activity
C. L. Savin, C. Tiron, E. Carasevici, C. S. Stan, S. A. Ibanescu, B. C. Simionescu, C. A. Peptu, *Pharmaceutics*, 11 (7), Article Number 303 (2019)
- (53) Crystal Structure of a Tetrameric Type II beta-Carbonic Anhydrase from the Pathogenic Bacterium *Burkholderia pseudomallei*
A. Angeli, M. Ferraroni, M. Pinteală, S. S. Maier, B. C. Simionescu, F. Carta, S. del Prete, C. Capasso, C. T. Supuran, *Molecules*, 25 (10), 2269 (2020)
- (54) Humelnicu, P. Samoilă, C. Cojocar, R. Dumitriu, A. C. Bostănar, M. Mareș, V. Harabagiu* and B. C. Simionescu, *Polymers*, 14, 689, <https://doi.org/10.3390/polym14040689>, (2022)
- (55) Cu(II)/guanidine functionalized disiloxane complex of supra-molecular structures for visible light driven photocatalysis
M. E. Fortuna, L. Pricop, M. F. Zaltariov, D. Popovici, M. Ignat *, V. Harabagiu * and B. Simionescu, *Polymers*, <https://www.mdpi.com/2073-4360/14/4/817/pdf>, <http://doi.org/10.3390/polym1404817> (2022)