



Professor Bogdan C. SIMIONESCU



PROFESSOR BOGDAN C. SIMIONESCU AT HIS 65th ANNIVERSARY

On March 16, 2013, Professor Bogdan C. Simionescu celebrates his 65th anniversary. Born in Iași in a family of chemists – Natalia and Cristofor I. Simionescu –, having the grandparents from his mother's side coming from Bucovina County and speaking fluently Ukrainian, German and Polish, and from his father's side coming from Suceava County, the young Bogdan took benefit of an open-minded and multicultural environment which would strongly influence the development of his personality.

He graduated from the high-school in Iași at “Costache Negruzzi” Lyceum in 1966. Attracted by history, chemistry and fine arts, the already young man decided to study chemistry and he took the courses of organic and macromolecular chemistry in Iași, at “Gheorghe Asachi” Polytechnic Institute (1966-1971), getting his engineering degree in polymer chemistry and technology. In fact, in his youth, he was fond of ancient history and he dreamed of practicing archaeological diggings in Egypt, Syria, Greece, and so on, but he decided to study chemical engineering being aware that such dreams were almost impossible to fulfill in Roumania in those hard times. After graduation he was accepted as an assistant professor in the Department of Organic and Macromolecular Chemistry of the “Gheorghe Asachi” Polytechnic Institute, and in January 1972 he left Roumania for a PhD degree at the Catholic University of Leuven, Belgium, under the supervision of Professor Georges J. Smets, one of the pioneers of polymer science. He was awarded the PhD degree in June 1975 and returned to Roumania as the youngest doctor in science in the country. Back in Iași, he followed the academic career in the same Polytechnic Institute where he studied and in 1992 he became full professor in Polymer science in the Department of Macromolecules.

Along the years, professor Bogdan C. Simionescu was invited as a visiting professor in France (Université de Haute-Alsace, Ecole Nationale Supérieure de Chimie, Mulhouse (Chaire Noelting – 1991); Centre de Mise en Forme des Matériaux, Sophia Antipolis – 1992; Université du Littoral, Dunkerque – 1995; Université Montpellier 2 – 2001; Université d'Angers – 2005; Université de Rouen – 2007), Germany (Freiburger Materialforschungszentrum – 1996), Japan (University of Kyoto – 1988, Japan Society of Polymer Science – 1996), Poland (Centre of Polymer Chemistry, Zabrze – 1998, 1999, 2000, 2001, 2003, and 2005). Between 1994 and 2006 he got the position of invited professor at the “Polytechnica” University of Bucharest, Department of Engineering Sciences.

Thirty-eight series of students in polymer science and engineering had the opportunity to attend his courses and seminars in polymer chemistry and physics or to elaborate their graduation diploma under his guidance, and 32 PhD theses were finalized under his supervision. Nowadays, most of his former PhD students have academic positions in Roumania or in well-established research or high-education centers in France, Switzerland, Germany, USA, and Canada.

The scientific activity of Professor Bogdan C. Simionescu started quite early, when he was a student at the Polytechnic Institute in Iași. From the beginning he proved his talent, creativity and skills for research. Member of the team headed by his father, Professor Cristofor I. Simionescu, he worked on the development of the “cold theory” of the origin of life and later discovered the synthesis of ultra-high molecular weight polymers in cold plasma conditions. The pioneering results on polymers of molecular weights of millions and tens of millions Daltons (pleistomers), hard to be understood and trusted by classical chemists, were published starting from 1980 and represented the beginning of laborious studies on solution characterization of these macromolecular compounds with quite unusual properties. More than 70 papers on this topic were published by Professor Bogdan Simionescu and his colleagues from the “Petru Poni” Institute of Macromolecular Chemistry. The papers on plasma-induced polymerization as a technique for the synthesis

of ultra-high molecular weight polymers and on the solution properties of these polymers were highly cited during the 80's – according to international statistics, Professors Cristofor I. Simionescu and Bogdan C. Simionescu were, at that time, on the second position in Romania on the list of “most cited researchers”.

Apart from the mentioned research directions, Professor Simionescu initiated and developed investigations on a large variety of subjects – unconventional radical polymerization, combined polymer synthesis techniques, macromolecular radical polymerization initiators, functional oligomers, block and graft copolymers, nanosized/nanostructured and bio-oriented materials, most of them belonging to the “hot area” topics in macromolecular science.

Today, the scientific activity of Professor Simionescu is illustrated by more than 300 scientific papers published in international journals, books and book chapters, more than 100 invited lectures in Europe, USA, Canada, and Japan. He is a member of Editorial Boards of Roumanian and international journals and has been organizer/co-organizer of different national/international scientific meetings, including ten editions of the French-Roumanian Symposia in Polymer Science and six editions of the “Cristofor I. Simionescu” Symposium on Frontiers in Macromolecular and Supramolecular Science. In 2000 Professor Bogdan C. Simionescu was elected corresponding member of Roumanian Academy and he became full member of the Roumanian Academy in 2009. He is also member of the European Academy of Sciences and Arts. He now acts as President of the Iași Branch of the Roumanian Academy (since 2012), President of the Iași Branch and Vice-president of the Roumanian Chemical Society (since 2010), President of the Research Coordination Council of the Roumanian Academy (since 2006) and in these capacities he is actively involved in committees advising for research and high-education strategies for Roumania. Hopefully, if some of his ideas are to be implemented we will surely feel the benefits in the next decades.

As Head of the Department of Macromolecules of “Gheorghe Asachi” Technical University of Iași (1996 – 2003) or Director of “Petru Poni” Institute of Macromolecular Chemistry (2000 – to date) Professor Simionescu proved to be a very good science manager. At “Gheorghe Asachi” Technical University he created the Polymers Centre of Excellence and the “Multifunctional Polymeric Materials” Interdisciplinary Platform, both of them offering the most appropriate environment for high education and research in polymer science and engineering.

The major political changes of December 1989 in Roumania determined Professor Simionescu to use his international experience to re-establish his former professional contacts with European and non-European centers and institutions, to find and implement solutions to improve the research infrastructure of both “Gheorghe Asachi” Technical University of Iași and “Petru Poni” Institute of Macromolecular Chemistry and to establish and consolidate a competitive working atmosphere not only for experienced researchers but also for young graduates. Together with a few enthusiastic co-workers, he succeeded to attract both European and national funding and to create a real scientific network, at European standards, for the benefit of many Roumanian young researchers and PhD students.

The fruits of Professor Simionescu's efforts in building and consolidating an appropriate research environment in Roumania can be easily seen by visiting the “Multifunctional Polymeric Materials” Interdisciplinary Platform at “Gheorghe Asachi” Technical University of Iași and “Petru Poni” Institute of Macromolecular Chemistry. Centered on polymer science, both centers promote interdisciplinary research, are very active on the international scientific scene (“Petru Poni” Institute of Macromolecular Chemistry is the main Roumanian research institute at an international level, according to ISI Thomson statistics), and gather both young graduates and PhD students.

Professor Bogdan C. Simionescu is an open-minded, creative, hard-working, enthusiastic and charming teacher, researcher and scientific manager. He made out of “Petru Poni” Institute his second home (if not his first one!) and he is an example and inspiration for his younger colleagues and co-workers. He is the portrait of a pure scientist who dedicated his whole life to his profession which is his hobby, too. And this latest assertion may be seen more *ad litteram* than figuratively, thus almost without exception (working day or holiday) one knows when he is in town by noticing the light at his office's window in the Institute late in the evening.

On the occasion of his 65th anniversary his students, co-workers, colleagues from Roumania and abroad wish him a happy anniversary and many happy returns of the day!

Editorial Board

LIST OF PUBLICATIONS**Publications / papers**

1. Recherches dans le domaine des polynitrophénylacétylènes obtenus par polymérisation dans le plasma
T. Lixandru, Sv. Dumitrescu, F. Denes, B. C. Simionescu, M. Vata
Rev. Gén. Caoutchouc Plastiques, 48, 193 (1971)
2. Das Studium der Polymerisation von Azetylderivaten. Note 10. Synthèse von substituierten Polyphenylazetylenen; Aufbau und Eigenschaften
C. I. Simionescu, Sv. Dumitrescu, T. Lixandru, M. Daranga, B. C. Simionescu, M. Vata
Eur. Polym. J., 8, 719 (1972)
3. Studium der Polymerisation von Azetylderivaten. XIV Mitt. Molekularstruktur der Monomere und der Polymere
C. I. Simionescu, Sv. Dumitrescu, T. Lixandru, S. Vasiliu, B. C. Simionescu
Plaste Kautschuk, 19, 101 (1972)
4. Polimeri orto- i para-zamescennogo fenilacetilena. Sootnoscenie mejdu rezultatami polucennimi sposobom rasceta molekuliarnih orbitalei po Hiukkeliu i experimentalnimi dannimi
C. I. Simionescu, V. Sahini, Sv. Dumitrescu, T. Lixandru, M. Daranga, B. C. Simionescu, M. Vata, J. Weissberg
Vysokomol. Soedin., (A) XVI, 1464 (1974)
5. Polymer Induced Aggregation of Dye Molecules
B. C. Simionescu, G. Smets
Makromol. Chem., Suppl., 1, 249 (1975)
6. Phenomenes methacromatiques de polymeres acides
B. C. Simionescu
PhD Thesis, Catholic University of Leuven, Leuven, Belgium (1975)
7. Propriétés semiconductrices des polyphénylacétylènes
B. C. Simionescu
Thesis, Catholic University of Leuven, Leuven, Belgium (1975)
8. Synthèse de quelques intermédiaires impliqués dans l'apparition des biomonomeres dans les systèmes CH₄/NH₃ et CH₄/NH₃/H₂O
C. I. Simionescu, S. Dumitriu, V. Bulacovschi, B. C. Simionescu, V. I. Popa
C. R. Acad. Sci. (Paris), C 283, 515 (1976)
9. Synthèse abiotique des porphyrines: obtention de composés du type porphyrinique par la décharge de haute fréquence dans un mélange de méthane, d'ammoniac et de vapeur d'eau
C. I. Simionescu, B. C. Simionescu, R. Mora, M. Leanca, E. Ioanid
C. R. Acad. Sci. (Paris), C 284, 743 (1977)
10. 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)
11. Porfirinele și evoluția biosistemelor
C. I. Simionescu, R. Mora, B. C. Simionescu
Rev. Chimie, 28, 1029 (1977)
12. Modele chimique de synthèse des précurseurs de la matiere vivante
C. I. Simionescu, S. Dumitriu, V. I. Popa, V. Bulacovschi, B. C. Simionescu
Rev. Roum. Chim., 23, 89 (1978)
13. Porphyrins and the Evolution of Biosystems
C. I. Simionescu, R. Mora, B. C. Simionescu
Bioelectrochem. Bioenerg., 5, 1 (1978)
14. Molekulare Reaktionen in Kalten Methan-Wasser-Plasmen und die Wirkung von UV-Bestrahlung
C. I. Simionescu, S. Dumitriu, V. Bulacovschi, V. I. Popa, B. C. Simionescu
Z. Naturforsch., 336, 390 (1978)

15. Résultats préliminaires sur la synthèse abiotique des métalloporphyrines
C. I. Simionescu, B. C. Simionescu, R. Mora, M. Leanca, M. Vasilescu
C. R. Acad. Sci. (Paris), D 286, 1021 (1978)
16. Porphyrin-Like Compounds Genesis under Simulated Abiotic Conditions
C. I. Simionescu, B. C. Simionescu, R. Mora, M. Leanca
Origins of Life, 9, 103 (1978)
17. Synthèse de quelques acides monocarboxyliques en conditions abiotiques simulées
C. I. Simionescu, B. C. Simionescu, M. Leanca, R. Mora, D. Mancas
C. R. Acad. Sci. (Paris), C 288, 453 (1979)
18. Possible Prebiotic Synthesis of Some Monocarboxylic Acids According to the “Cold Theory”
B. C. Simionescu, M. Leanca, R. Mora, D. Mancas, C. I. Simionescu
Rev. Roum. Chim., 24, 1521 (1979)
19. Intramolecular Charge Transfer Complexes. 7. Radical Copolymers of 2,4-Dinitrophenyl Methacrylate with N-(2-Hydroxyethyl)-3,6-Dichlorocarbazolyl Acrylate and Methacrylate
V. Percec, A. Natansohn, V. Barboiu, B. C. Simionescu, D. Galea
Polym. Bull., 2, 505 (1980)
20. Plasma-Induced Polymerization. 1. Bulk Copolymerization of Methyl Methacrylate and Styrene
B. C. Simionescu, A. Natansohn, C. I. Simionescu
Polym. Bull., 2, 809 (1980)
21. Plasma-Induced Polymerization. 2. Bulk Copolymerization of Alpha-Methyl Styrene with Methyl Methacrylate and Acrylonitrile
B. C. Simionescu, A. Natansohn, M. Leanca, C. Ananiescu, C. I. Simionescu
Polym. Bull., 3, 247 (1980)
22. Genesis of Porphyrin-Like Compounds under Simulated Abiotic Conditions. A Possible Mechanism of Their Formation
B. C. Simionescu, R. Mora, M. Leanca, C. Ananiescu
Rev. Roum. Chim., 25, 1077 (1980)
23. Macromoleculele în natură și în cotidian
C. I. Simionescu, B. C. Simionescu
Știința și Tehnica, XXXI ser. II, 11, 15 (1980)
24. Plasma-Induced Polymerization. 3. Bulk and Solution Homopolymerization of Some Vinyl Monomers
B. C. Simionescu, M. Leanca, C. Ananiescu, C. I. Simionescu
Polym. Bull., 3, 437 (1980)
25. Plasma-Induced Polymerization. 4. Low Conversion Bulk Polymerization of Styrene
B. C. Simionescu, M. Leanca, S. Ioan, C. I. Simionescu
Polym. Bull., 4, 415 (1981)
26. Plasma-Induced Polymerization. 5. Bulk Copolymerization of Methacrylonitrile with Styrene
B. C. Simionescu, A. Natansohn, M. Leanca, C. Ananiescu, C. I. Simionescu
Polym. Bull., 4, 569 (1981)
27. Plasma-Induced Polymerization. 6. “Living” Macroradicals as Macromolecular Initiators
C. I. Simionescu, B. C. Simionescu, M. Leanca, C. Ananiescu
Polym. Bull., 5, 61 (1981)
28. Conformational Changes of Methacrylonitrile-Styrene Copolymers in Diluted Solutions
S. Ioan, B. C. Simionescu, C. I. Simionescu
Polym. Bull., 5, 563 (1981)
29. Plasma-Induced Polymerization. 8. The Heterogeneity of Chain Composition of Methacrylonitrile – Styrene Copolymers
B. C. Simionescu, S. Ioan, C. I. Simionescu
Polym. Bull., 6, 87 (1981)
30. 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)

31. Plasma-Induced Polymerization. 10. On the Heterogeneity and Excluded Volume Effect of Methyl Methacrylate – Styrene Copolymers
S. Ioan, B. C. Simionescu, C. I. Simionescu
Polym. Bull., 6, 421 (1982)
32. Plasma-Induced Polymerization. VII. Some Characteristics of this New Method of Polymer Synthesis
C. I. Simionescu, B. C. Simionescu
Rev. Roum. Chim., 27, 141 (1982)
33. Copolymerization of Acrylonitrile with Alpha-Methyl Styrene and with Vinyl Acetate in Ethylene Carbonate and Ethylene Carbonate – Water Mixture
B. C. Simionescu, C. Ananiescu, M. Leanca, C. I. Simionescu
Acta Polym., 33, 347 (1982)
34. Thermally Stimulated Currents in Methacrylonitrile – Styrene Copolymer Films
B. C. Simionescu, E. Neagu, M. Leanca, C. I. Simionescu
Polym. Bull., 8, 15 (1982)
35. Polymerization of Methyl Methacrylate Initiated with Invertase and FeCl₃ in Water
B. C. Simionescu, S. Dumitriu, C. Mihailescu, C. I. Simionescu
Polym. Bull., 8, 199 (1982)
36. Polymerization of Methyl Methacrylate Initiated with Invertase and Copper (II) Ion in Water
C. I. Simionescu, C. Mihailescu, S. Dumitriu, B. C. Simionescu
Polym. Bull., 9, 21 (1983)
37. Bulk Copolymerization of Phenylacetylene with Methacrylonitrile and with Isoprene
C. I. Simionescu, B. C. Simionescu, C. Mihailescu
Acta Polym., 34, 62 (1983)
38. Solution Properties of Ultrahigh Molecular Weight Polymers. 1. Methyl Methacrylate – Styrene 50:50 Random Copolymers
C. I. Simionescu, B. C. Simionescu, S. Ioan
Makromol. Chem., 184, 829 (1983)
39. Plasma-Induced Polymerizations and Copolymerizations
C. I. Simionescu, B. C. Simionescu
Supplement to the Proceedings of IUPAC Macro 1982, Amherst, MA (1982)
40. Solution Properties of Ultrahigh Molecular Weight Polymers. 2. Poly(methyl methacrylate)
C. I. Simionescu, B. C. Simionescu, S. Ioan
Makromol. Chem., Rapid Commun., 4, 549 (1983)
41. Solution Properties of Ultrahigh Molecular Weight Polymers. IV. Conformational Changes of Butyl Methacrylate – Styrene Copolymers in Diluted Solutions
C. I. Simionescu, S. Ioan, B. C. Simionescu
1983 Prague Meeting on Macromolecules (Copolymers: Structure and Solution Properties), 69 (1983)
42. Kinetic Aspects of Radical Polymerization with Instantaneous Initiation and without Termination
C. I. Simionescu, S. Petrovan, B. C. Simionescu
Eur. Polym. J., 10/11, 1005 (1983)
43. Plasma-Induced Polymerizations and Copolymerizations
C. I. Simionescu, B. C. Simionescu
Chem. Zvesti, 37, 685 (1983)
44. Alternating Copolymerization of Ethyl Methacrylate and Butyl Methacrylate with Styrene in the Presence of ZnCl₂
B. C. Simionescu, V. Talmaciu, V. Barboiu, C. I. Simionescu
Polym. Bull., 10, 497 (1983)
45. Unconventional Radical Polymerizations
C. I. Simionescu, B. C. Simionescu
Pure Appl. Chem., 56, 427 (1984)
46. Solution Properties of Ultrahigh Molecular Weight Polymers. 6. Poly(butyl methacrylate)
C. I. Simionescu, B. C. Simionescu, S. Ioan
J. Polym. Sci., Polym. Lett. Ed., 23, 121 (1985)

47. Plasma-Induced Polymerization. 12. Low Conversion Bulk Homopolymerization of Methyl Methacrylate
C. I. Simionescu, B. C. Simionescu, S. Ioan, M. Leanca, C. Chelaru
Rev. Roum. Chim., 30, 441 (1985)
48. Plasma-Induced Living Radical Copolymerization
C. I. Simionescu, B. C. Simionescu, S. Ioan
J. Macromol. Sci.-Chem., A 22, 765 (1985)
49. 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)
50. Solution Properties of Ultrahigh Molecular Weight Polymers. 9. Systematic Error Sources in Light Scattering Determinations Affecting the Discussion of the Excluded Volume Effect
S. Ioan, C. Sava, B. C. Simionescu
Bul. IPI, XXXI (XXXV), fasc. supl., 117 (1985)
51. Living Radical Polymerizations
C. I. Simionescu, B. C. Simionescu
Rev. Cubana Quim., I, 1 (1985)
52. Solution Properties of Ultrahigh Molecular Weight Polymers. 10. Viscosity of Dilute to Moderately Concentrated Poly(butyl methacrylate) Solutions
S. Ioan, B. C. Simionescu, I. Neamtu, C. I. Simionescu
Polymer Commun., 27, 113 (1986)
53. On the Copolymerization Model and Microstructure of Methyl Acrylate – Styrene Radical Copolymer. Influence of $ZnCl_2$
C. I. Simionescu, V. Barboiu, B. C. Simionescu, V. Talmaciu, C. Sava
J. Polym. Sci.: Part A: Polym. Chem., 24, 851 (1986)
54. Solution Properties of Ultrahigh Molecular Weight Polymers. 12. Systematic Error Sources Affecting the Discussion of the Excluded Volume Effect
S. Ioan, A. Leonte, C. Sava, B. C. Simionescu, C. I. Simionescu
Acta Polym., 37, 533 (1986)
55. Solution Properties of Ultrahigh Molecular Weight Polymers (Pleistomers). 14. Solvent Effect on the Unperturbed Dimensions of Poly(butyl methacrylate) Chains
C. I. Simionescu, S. Ioan, B. C. Simionescu
Rev. Roum. Chim., 31, 995 (1986)
56. 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. Neamtu, S. Ioan
Polymer, 28, 165 (1987)
57. 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)
58. 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)
59. Conformational Transitions in Poly(butyl methacrylate)
B. C. Simionescu, S. Ioan, A. Chiriac, C. I. Simionescu
Polym. Bull., 17, 439 (1987)
60. 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)
61. Synthesis of Polyester-Poly(vinyl monomer) Block Copolymers
C. I. Simionescu, E. Comanita, V. Harabagiu, B. C. Simionescu
Eur. Polym. J., 23, 921 (1987)

62. Molecular Weight Investigation of Ultrahigh Molecular Weight Poly(butyl methacrylate) by Electron Microscopy
C. I. Simionescu, A. Ioanid, B. C. Simionescu
Acta Polym., 38, 586 (1987)
63. Experimental and Theoretical Data on Excluded Volume Effect of Ultrahigh Molecular Weight Polymethacrylates
C. I. Simionescu, S. Ioan, B. C. Simionescu
Makromol. Chem., Macromol. Symp., 20/21, 235 (1988)
64. Solution Properties of Ultrahigh Molecular Weight Polymers. 16. Unperturbed Dimensions of Poly(isobutyl methacrylate)
C. I. Simionescu, S. Ioan, A. Flondor, B. C. Simionescu
Makromol. Chem., 189, 2331 (1988)
65. Synthesis of Ultrahigh Molecular Weight Polymers by Plasma-Induced Polymerization
C. I. Simionescu, B. C. Simionescu
Polym. Prepr., 29 (2), 75 (1988)
66. Synthesis of Silicone – Vinyl Block Copolymers
C. I. Simionescu, V. Harabagiu, E. Comanita, V. Hamciuc, D. Giurgiu, B. C. Simionescu
Eur. Polym. J., 26, 565 (1990)
67. 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)
68. Hydrophobic – Hydrophilic Copolymers from Functional Organosiloxane Oligomers
C. I. Simionescu, V. Harabagiu, D. Giurgiu, V. Hamciuc, B. C. Simionescu
Bull. Soc. Chim. Belg., 29, 991 (1990)
69. Solution Properties of Ultrahigh Molecular Weight Polymers. 18. Conformational Transitions of Polystyrene in Binary Solvents
S. Ioan, M. Bercea, B. C. Simionescu
Mem. Sect. St. Acad. Rom., Seria IV, Tom XIII, 69 (1990)
70. Solution Characterization of High Molecular Weight Polyacrylonitrile Obtained by Plasma-Induced Polymerization
B. C. Simionescu, S. Ioan, M. Bercea, C. I. Simionescu
Eur. Polym. J., 27, 553 (1991)
71. Unperturbed Dimensions of High Molecular Weight Polyacrylonitrile
B. C. Simionescu, S. Ioan, M. Bercea, C. I. Simionescu
Eur. Polym. J., 27, 589 (1991)
72. Solution Properties of Ultrahigh Molecular Weight Polymers. 17. Conformational Transitions of Poly(isobutyl methacrylate) in Dilute Solutions
S. Ioan, A. Flondor, B. C. Simionescu, C. I. Simionescu
Acta Polym., 42, 230 (1991)
73. On the Mechanism of Plasma-Induced Polymerization
C. I. Simionescu, B. C. Simionescu
Polym. Prepr., 32 (1), 434 (1991)
74. Chain Conformation and Viscometric Behaviour of High Molecular Weight Polystyrene in Solvent/Nonsolvent Mixtures
S. Ioan, M. Bercea, B. C. Simionescu, C. I. Simionescu
Polym. Bull., 26, 117 (1991)
75. Phase-Transfer-Agent-Aided Free Radical Polymerization of Methyl Methacrylate – A Kinetic Study
V. Bulacovschi, C. Mihailescu, S. Ioan, B. C. Simionescu
J. Macromol. Sci. - Chem., A 28, 613 (1991)
76. Flexibility Parameter of High Molecular Weight Polymers. 2. Polystyrene in Solvent – Nonsolvent Mixtures
S. Ioan, M. Bercea, B. C. Simionescu
Rev. Roum. Chim., 36, 749 (1991)
77. Block Copolymers by Combined Polymer Synthesis Techniques
V. Harabagiu, B. C. Simionescu, C. I. Simionescu
Mem. Sect. St. Acad. Rom., Seria IV, Tom XIV, 81 (1991)

78. Thermodynamic Aspects of Ultrahigh Molecular Weight Polymer Solutions
C. I. Simionescu, S. Ioan, M. Bercea, B. C. Simionescu
Mem. Sect. St. Acad. Rom., Seria IV, Tom XIV, 29 (1991)
79. 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)
80. The Mechanism of Plasma-Induced Polymerization
C. I. Simionescu, B. C. Simionescu
Makromol. Chem., Macromol. Symp., 54/55, 595 (1992)
81. Polydispersity Corrections for the Second Virial Coefficient
C. Constantin, B. C. Simionescu, C. I. Simionescu
Rev. Roum. Chim., 37, 1197 (1992)
82. Polystyrene/Solvent/Solvent Ternary System. A Comparative Study of the Flory-Huggins, Flory-Huggins-Pouchly and Flory-Patterson Formalism
G. Grigorescu, S. Ioan, B. C. Simionescu
Rev. Roum. Chim., 37, 1205 (1992)
83. Polimerizarea radicalică cu deschidere de ciclu
S. Morariu, M. Bercea, B. C. Simionescu
Mat. Plast., 29, 77 (1992)
84. Free-Radical Ring-Opening Polymerization of 2-(o-chlorophenyl)-4-methylene-1,3-dioxolane
S. Morariu, E. C. Buruiana, B. C. Simionescu
Polym. Bull., 30, 7 (1993)
85. High Molecular Weight Polystyrene in Solvent Mixtures. Preferential and Total Adsorption
C. I. Simionescu, S. Ioan, M. Bercea, N. Mitu, B. C. Simionescu
Eur. Polym. J., 29, 183 (1993)
86. Shear Rheology of Semidilute Poly(methyl methacrylate) Solutions
M. Bercea, C. Peiti, B. C. Simionescu, P. Navard
Macromolecules, 26, 7095 (1993)
87. Solvent/Solvent/Polymer Ternary Systems. 1. Correlation Between Experimental Data and Theoretical Predictions for Acetonitrile/Chlorobutane/Poly(methyl methacrylate) System
G. Grigorescu, S. Ioan, B. C. Simionescu
Polym. Bull., 31, 123 (1993)
88. Functional Polysiloxanes. 1. Polydimethylsiloxanes Containing Chloromethylphenethyl Groups
M. Pinteala, V. Harabagiu, C. Cotzur, B. C. Simionescu
Eur. Polym. J., 30, 309 (1994)
89. Polymerization of Methyl Methacrylate in the Presence of Azosiloxane Macroinitiators
C. I. Simionescu, V. Harabagiu, C. Cotzur, B. C. Simionescu
Rev. Roum. Chim., 39, 319 (1994)
90. Azo derivați organici în sinteza copolimerilor bloc
C. I. Simionescu, M. Neamtu, V. Harabagiu, B. C. Simionescu
Mat. Plast., 30, 75 (1994)
91. On Chain Flexibility of Ultrahigh Molecular Weight Polymethacrylates
M. Bercea, S. Morariu, S. Ioan, B. C. Simionescu
Synth. Polym. J., 1, 81 (1994)
92. Photoactive Polysiloxanes. 1. Synthesis of Polydimethylsiloxane with Benzoin Terminal Groups
Y. Yagci, A. Onen, V. Harabagiu, M. Pinteala, C. Cotzur, B. C. Simionescu
Turkish J. Chem., 18, 101 (1994)
93. Functional Polysiloxanes. 2. On the Reaction of Hydroxypropyl- and Aminoalkyl-terminated Polydimethylsiloxanes with Cyclic Anhydrides
M. Pinteala, V. Harabagiu, C. Cotzur, N. M. Holerca, B. C. Simionescu
Polym. Bull., 32, 173 (1994)
94. Excluded Volume Effect in Polyacrylonitrile Solutions
S. Ioan, G. Grigorescu, C. Ioan, B. C. Simionescu
Polym. Bull., 33, 119 (1994)

95. 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)
96. Influence of Inter- and Intramolecular Contacts on the Second Virial Coefficient
C. Constantin, B. C. Simionescu
Eur. Polym. J., 30, 1071 (1994)
97. Theoretical Study of Free-Radical Ring-Opening Polymerization of 2-(o-chlorophenyl)-4-methylene-1,3-dioxolane. A Molecular and Quantum Mechanics Approach
S. Morariu, Gh. Surpateanu, B. C. Simionescu
Macromol. Theory. Simul., 3, 523 (1994)
98. On the Polymerization of 2-(2', 4'-dichlorophenyl)-4-methylene-1,3-dioxolane
S. Morariu, B. C. Simionescu
Eur. Polym. J., 30, 1339 (1994)
99. 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)
100. Functional Polysiloxanes as Precursors in Copolymer Synthesis
V. Harabagiu, M. Pinteala, C. Cotzur, B. C. Simionescu, C. I. Simionescu
Synth. Polym. J., 1 (2-3), 259 (1994)
101. Specific Interactions in Multicomponent Polymer/Solvent Systems
B. C. Simionescu, S. Ioan, C. Ioan, C. I. Simionescu
Synth. Polym. J., 1 (2-3), 23 (1994)
102. Solution Properties of Ultrahigh Molecular Weight Polymers. 20. Polymer Chain Dimensions of Poly(methyl methacrylate)
S. Ioan, M. Bercea, C. Ioan, B. C. Simionescu
Eur. Polym. J., 31, 85 (1995)
103. Ultrahigh Molecular Weight Poly(methyl methacrylate) Dilute Solutions as Studied by UV Spectrophotometry and Viscometry
M. Bercea, K. Gosa, B. C. Simionescu
Rev. Roum. Chim., 40, 661 (1995)
104. The Effect of Star-like Branching and Solvent Quality on Inter- and Intramolecular Interaction Parameters of Polystyrene – Solvent Systems
C. Ioan, S. Ioan, B. C. Simionescu
Macromol. Reports, A 32, Suppl. 5-6, 923 (1995)
105. 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)
106. Functional Polysiloxanes. 4. An Approach to Multifunctional Cyclic Carbosiloxanes
M. Pinteala, V. Harabagiu, M. N. Holerca, I. I. Negulescu, B. C. Simionescu
Macromol. Reports, A 32, Suppl. 5-6, 671 (1995)
107. Specific Interactions in Dilute Polymer Solutions
B. C. Simionescu, C. Ioan, S. Ioan, C. I. Simionescu
Macromol. Chem. Phys., Macromol. Symp., 98, 1045 (1995)
108. Ionic Polymers. II. Polymers with Ammonium Quarternary Groups Based on Poly(4-vinylpyridine)
C. Luca, V. Neagu, G. Grigoriu, B. C. Simionescu
Rev. Roum. Chim., 40 (7-8), 717 (1995)
109. Intramolecular Charge Transfer Complexes. 29. Morphological Study of Multicomponent Systems
C. I. Simionescu, G. David, A. Ioanid, G. Ioanid, B. C. Simionescu
Polym. Plast. Technol. Eng., 34, 845 (1995)
110. Soap-Free Emulsion Polymerization in the Presence of Poly(N-acetyl iminoethylene) Macroazoinitiators
C. I. Simionescu, V. Paraschiv, G. David, B. C. Simionescu
Macromol. Reports, A 32, Suppl. 7, 1095 (1995)

111. Template Polymerization of Methacrylic Acid in the Presence of Poly(N-acetyliminoethylene) Macroazoinitiators
G. David, O. Ciochina, V. Bulacovschi, B. C. Simionescu
J. Macromol. Sci.: Pure Appl. Chem., A 32 (8 & 9), 1649 (1995)
112. Macromolecular Radical Initiators in the Synthesis of Block and Graft Copolymers
M. Ropot, V. Harabagiu, B. C. Simionescu, C. I. Simionescu
Rev. Roum. Chim., 40, 937 (1995)
113. On the Determination of the Unperturbed Dimensions of Polystyrene
C. Ioan, B. C. Simionescu
Mem. Sect. St., IV, XVIII, 301 (1995)
114. Interaction Parameters in Multicomponent Polymer-Solvent Systems. I. Polymer – Solvent Binary Interaction Parameters
G. Grigorescu, S. Ioan, B. C. Simionescu
Mem. Sect. St., IV, XVIII, 261 (1995)
115. Interaction Parameters in Multicomponent Polymer-Solvent Systems. II. Binary and Ternary Interaction Parameters
G. Grigorescu, S. Ioan, B. C. Simionescu
Mem. Sect. St., IV, XVIII, 283 (1995)
116. Solution Properties of Ultrahigh Molecular Weight Polymers. 19. A Viscometric Study of Poly(methyl methacrylate)
D. Caraiman, M. Bercea, S. Ioan, B. C. Simionescu
Mem. Sect. St., IV, XVIII, 323 (1995)
117. Carbofunctional Siloxane Oligomers
M. Pinteala, V. Harabagiu, C. Cotzur, B. C. Simionescu
Roum. Chem. Quart. Rev., 4, 75 (1996)
118. Correlation Between Preferential and Total Adsorption Coefficients and the Second Virial Coefficient for 1-Chlorobutane/2-Butanol/Poly(methyl methacrylate) System
G. Grigorescu, S. Ioan, B. C. Simionescu
Eur. Polym. J., 32, 851 (1996)
119. Synthesis and Characterization of Some Epoxy Resins Bearing Azomethine Groups
A. Mija, C. N. Cascaval, Gh. Stoica, D. Rosu, B. C. Simionescu
Eur. Polym. J., 32, 779 (1996)
120. Polymers with N-acyliminoethylene Sequences
B. C. Simionescu, G. David, V. Paraschiv
Polym. Prepr. (Japan), 45 (1), 76 (1996)
121. Ionic Polymers. III. Sorption of Fe (III) Ions on New Crosslinked Ionic Polymers Based on 4-vinylpyridine : Divinylbenzene Copolymers
V. Gutanu, C. Luca, C. Turta, V. Neagu, V. Sofranschi, M. Cherdivarenco, B. C. Simionescu
J. Appl. Polym. Sci., 59, 1371 (1996)
122. On the Behavior of Aminofunctional Oligosiloxanes in Toluene/Acetone Mixtures
G. Grigorescu, S. Ioan, V. Harabagiu, B. C. Simionescu
Macromol. Reports, A 33, Suppl 3 & 4, 163 (1996)
123. Polyelectrolyte Complexes. I. Synthesis and Characterization of Some Insoluble Polyanion – Polycation Complexes
S. Dragan, M. Cristea, C. Luca, B. C. Simionescu
J. Polym. Sci.: Part A: Polym. Chem., 34, 3485 (1996)
124. Template Polymerization of Methacrylic Acid along Poly(N-acetyliminoethylene) in Water. Influence of Template Architecture
C. I. Simionescu, G. David, V. Paraschiv, A. Ioanid, S. Manolache, B. C. Simionescu
J. Polym. Sci.: Part A: Polym. Chem., 34, 3071 (1996)
125. On the Polymerization of 2-(o-chlorophenyl)-4-methylene-1,3-dioxolane
S. Morariu, E. C. Buruiana, Gh. Surpateanu, B. C. Simionescu
Synth. Polym. J., III (1-2), 91 (1996)

126. Correlations between Mark-Houwink Parameters for Linear and Star-like Polybutadiene
C. Ioan, B. C. Simionescu
Synth. Polym. J., III (1-2), 118 (1996)
127. Preferential and Total Adsorption Coefficients for Poly(methyl methacrylate) in Isorefractive Solvent Mixtures
G. Grigorescu, S. Ioan, B. C. Simionescu
Synth. Polym. J., III (1-2), 138 (1996)
128. Chemical Modification of the Siloxane Backbone
V. Harabagiu, M. Pinteala, C. Cotzur, B. C. Simionescu
Synth. Polym. J., III (1-2), 262 (1996)
129. Dilute Solutions of Star-like Polymers
B. C. Simionescu, C. Ioan, S. Ioan
Synth. Polym. J., III (1-2), 317 (1996)
130. Ordering in Synthetic Polyelectrolyte Complexes
M. Cristea, St. Dragan, D. Dragan, B. C. Simionescu
6th Dresden Polymer Discussion – Surface Modification, Meissen, 100 (1997)
131. On the Morphology of Poly(N-acetyliminoethylene)/Polyvinyl Block Copolymers
C. I. Simionescu, A. Ioanid, G. David, B. C. Simionescu
Bul. Inst. Polit. Iasi, XLIII (XLVII), fasc. 1-2, 67 (1997)
132. Solution and Solid State Behaviour of Poly(N-acetyliminoethylene) – Poly(methacrylic acid) Interpolymer Complexes
G. David, J. M. Buisine, A. Daoudi, C. Kolinski, A. Stoleriu, V. Paraschiv, C. I. Simionescu, B. C. Simionescu
J. Macromol. Sci.: Pure Appl. Chem., A34, 1395 (1997)
133. Photochemical Polymerization of Methacrylic Acid in the Presence of Poly(N-acetyliminoethylene) Macroinitiators
C. I. Simionescu, V. Paraschiv, G. David, B. C. Simionescu
Eur. Polym. J., 33, 1251 (1997)
134. Synthesis and Characterization of PEO-Based Networks from Azide Precursors
M. Pinteala, V. Harabagiu, B. C. Simionescu, P. Guegan, H. Cheradame
Polym. Prepr., 38(1), 610 (1997)
135. Overlap Concentrations of Polydimethylsiloxanes with Amino End Groups
G. Grigorescu, S. Ioan, V. Harabagiu, B. C. Simionescu
Rev. Roum. Chim., 42, 701 (1997)
136. Preferential and Total Sorption in the Aminopropyl-terminated Polydimethylsiloxane/Toluene/Nitromethane System
G. Grigorescu, S. Ioan, C. Cojocar, V. Harabagiu, B. C. Simionescu
J. Macromol. Sci.: Pure Appl. Chem., A34, 533 (1997)
137. Photoactive Polysiloxanes. 3. Synthesis and Photocrosslinking of Vinyl Terminated Polydimethylsiloxanes
M. J. M. Abadie, M. Ropot, M. Pinteala, V. Harabagiu, B. C. Simionescu
Rev. Roum. Chim., 42, 923 (1997)
138. Materials with New Properties – a Challenge for Polymer Synthesis
B. C. Simionescu, V. Harabagiu, G. David, M. Pinteala
J. Serb. Chem. Soc., 62, 295 (1997)
139. Interaction of Di- and Tri-anionic Azo Dyes with Polycations of Integral Type
S. Dragan, M. Cristea, A. Airinei, B. C. Simionescu
Macromol. Chem. Phys., Rapid Commun., 18, 541 (1997)
140. Block and Graft Copolymers with Polysiloxane and Poly(N-acetyliminoethylene) Sequences
C. I. Simionescu, M. Rusa, G. David, M. Pinteala, V. Harabagiu, B. C. Simionescu
Angew. Makromol. Chem., 253, 139 (1997)
141. Interpolyelectrolyte Complexes Formation in Dependence on the Nature of Polyelectrolytes
M. Cristea, S. Dragan, D. Dragan, B. C. Simionescu
Macromol. Symp., 126, 143 (1997)

142. Radical Copolymerization of 2-(o-chlorophenyl)-4-methylene-1,3-dioxolane with Vinyl Monomers
S. Morariu, B. C. Simionescu
Rev. Roum. Chim., 42, 421 (1997)
143. Polysilanes. 1. Coupling Reaction of Dichloromethylphenylsilane in the Presence of Alkali Metal/Crown Ether Systems
V. Harabagiu, M. Pinteala, C. Cotzur, C. Iojoiu, B. C. Simionescu
Bul. Inst. Polit. Iasi, XLIII (XLVII), fasc. 3-4, 83 (1997)
144. Interaction Parameters in Multicomponent Polymer/Solvent Systems. 3. Preferential and Total Adsorption Coefficients
G. Grigorescu, S. Ioan, B. C. Simionescu
Mem. Sect. St., IV, XX, 184 (1997)
145. Comportarea poli(metacrilatului de metil) în amestecuri de solvenți. Comparatie între modelele teoretice și experimentale
G. Grigorescu, S. Ioan, B. C. Simionescu
Mem. Sect. St., IV, XX, 156 (1997)
146. Configuration Effect on the Theta Condition for Polymer/Solvent Systems
C. Ioan, B. C. Simionescu
Mem. Sect. St., IV, XX, 213 (1997)
147. Stabilization of Emulsion Polymerization by Block and Graft Copolymers with Polysiloxane and Poly(N-acetyliminoethylene) Sequences
C. I. Simionescu, G. David, V. Alupeii, M. Rusa, A. Ioanid, B. C. Simionescu
Angew. Makromol. Chem., 255, 17 (1998)
148. Characterization of Star-like Branching through Polymer Solution Properties. I. Effect of Arms Number
C. Ioan, B. C. Simionescu
Rev. Roum. Chim., 43, 531 (1998)
149. Solution Properties of Ultrahigh Molecular Weight Polymers. 21. Conformational Characteristics of Poly(methyl methacrylate)
M. Bercea, S. Ioan, B. C. Simionescu
Polym. Plast. Technol. Eng., 31, 285 (1998)
150. Characterization of Star-like Branching through Polymer Solution Properties. II. Inter- and Intramolecular Interactions
C. Ioan, B. C. Simionescu
Rev. Roum. Chim., 43, 633 (1998)
151. Behaviour of Polysiloxanes with Amino End Groups in Toluene/Nitromethane Mixtures
G. Grigorescu, S. Ioan, V. Harabagiu, B. C. Simionescu
Eur. Polym. J., 34, 827 (1998)
152. Synthesis and Properties of New Homo- and Copolyether Sulfones Containing Cycloaliphatic Cardo Groups
E. Butuc, M. Rusa, V. Cozan, A. Stoleriu, B. C. Simionescu
J. Macromol. Sci. – Pure Appl. Chem., A35, 175 (1998)
153. Polymolecularity Correction Factors for the Thermodynamic Properties of High Molecular Weight Polyacrylonitrile
S. Ioan, C. Ioan, M. Bercea, B. C. Simionescu
J. Macromol. Sci. – Pure Appl. Chem., A35, 609 (1998)
154. Ionic Polymers. V. Comparative Study on Textural Characteristics of Styrene – Divinylbenzene and Vinyltoluene – Divinylbenzene Copolymer Supports
C. Luca, V. Neagu, B. C. Simionescu, I. Rabia, J. Zerouk, Z. Bencheikh
React. Funct. Polym., 36, 79 (1998)
155. 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. Pinteala, B. C. Simionescu
Macromolecules, 31, 4301 (1998)
156. On the Influence of Poly(butyl methacrylate) Polydispersity on the Excluded Volume Parameters
G. Grigorescu, C. Ioan, S. Ioan, B. C. Simionescu
Bull. Chem. Technol. Macedonia, 17, 9 (1998)

157. Synthesis of Conducting H-type Polysiloxane – Polypyrrole Block Copolymers
E. Kalaycioglu, L. Toppare, Y. Yagci, V. Harabagiu, M. Pinteala, R. Ardelean,
B. C. Simionescu
Synth. Metals, 97, 7 (1998)
158. Polymer Chain Dimensions of Polystyrene in Solution
M. Bercea, S. Ioan, S. Morariu, B. C. Simionescu
Bull. Chem. Technol. Macedonia, 17, 89 (1998)
159. Short-range Interaction Parameters for Polydimethylsiloxanes with Different Terminal Groups
G. Grigorescu, S. Ioan, M. Pinteala, B. C. Simionescu
J. Serb. Chem. Soc., 63, 961 (1998)
160. Functional Polydimethylsiloxanes Containing End Heterocyclic Groups
M. Pinteala, C. Iojoiu, C. Cotzur, V. Harabagiu, C. Ioan, B. C. Simionescu
Synth. Polym. J., 5(1), 152 (1998)
161. Ionic Polymers. IV. Selectivity Trends of Some Unconventional Strong Base Anion Exchangers in Monovalent and Divalent/Monovalent Ionic Exchangers
V. Neagu, C. Luca, W. H. Holl, B. C. Simionescu
Synth. Polym. J., 5(1), 159 (1998)
162. Photocrosslinking of Functional Polydimethylsiloxanes
M. Ropot, M. Pinteala, V. Harabagiu, B. C. Simionescu, M. J. M. Abadie
Synth. Polym. J., 5(1), 169 (1998)
163. Influence of Temperature on Flow Properties of Ultrahigh Molecular Weight Poly(methyl methacrylate) in Semidilute Solutions
C. Ioan, J. - L. Vernet, M. Bercea, B. C. Simionescu
Synth. Polym. J., 5(1), 199 (1998)
164. Oligo- and Polysiloxanes in Dilute Solution
G. Grigorescu, S. Ioan, V. Harabagiu, B. C. Simionescu
Synth. Polym. J., 5(1), 213 (1998)
165. Ultrahigh Molecular Weight Poly(methyl methacrylate) in Dilute Solutions
M. Bercea, C. Ioan, S. Morariu, S. Ioan, B. C. Simionescu
Synth. Polym. J., 5(1), 223 (1998)
166. Polymolecularity Correction Factors for the Second Virial Coefficient of Polyacrylonitrile
S. Ioan, C. Ioan, M. Bercea, B. C. Simionescu
Synth. Polym. J., 5(1), 232 (1998)
167. Synthesis and Characterization of Some Nematic Epoxy Resins
A. Mititelu, C. N. Cașcaval, B. C. Simionescu, P. Navard
Synth. Polym. J., 5(1), 256 (1998)
168. Polymeric Gels Based on Polydimethylsiloxane-co-poly(methacrylic acid) Networks
T. Rusu, M. Pinteala, C. Iojoiu, V. Harabagiu, C. Cotzur, B. C. Simionescu,
I. Blagodatskikh, O. Shchegolikhina
Synth. Polym. J., 5(2), 29 (1998)
169. Siloxane Containing Copolymers. 1. Synthesis of Polydimethylsiloxane – Polyisobutene Di- and Triblock Copolymers
V. Lungu, V. Harabagiu, M. Pinteala, B. C. Simionescu
Synth. Polym. J., 5(2), 36 (1998)
170. Synthesis and Some Properties of Oligo- and Polyacrylonitrile
S. Morariu, M. Bercea, C. Ioan, S. Ioan, B. C. Simionescu
Synth. Polym. J., 5(2), 116 (1998)
171. Soapless Emulsion Polymerization of MMA at the Surface of Silica Powder Particles
C. I. Simionescu, G. David, V. Alupeii, C. Ioan, B. C. Simionescu
Synth. Polym. J., 5(2), 260 (1998)
172. Amphiphilic Copolymers with Polysiloxane and Poly(N-acetyliminoethylene) Sequences
C. I. Simionescu, M. Rusa, G. David, V. Harabagiu, U. Cernenco, B. C. Simionescu
Synth. Polym. J., 5(2), 270 (1998)

173. Aspecte privind morfologia unor copolimeri bloc care conțin secvențe siloxanice
A. Ioanid, V. Hamciuc, A. Stanciu, G. David, E. Ioanid, B. C. Simionescu
A XXIV-a Sesiune Națională de Comunicări Științifice, octombrie 1998,
Căciulata – Vâlcea, II, II-549 (1998)
174. Efectul sărurilor mic moleculare asupra stabilității complexilor polielectrolitici
S. Dragan, M. Cristea, B. C. Simionescu
A XXIV-a Sesiune Națională de Comunicări Științifice, octombrie 1998,
Căciulata – Vâlcea, II, II-561 (1998)
175. The Influence of the Terminal Groups on the Excluded Volume Effect of Polydimethylsiloxanes
G. Grigorescu, S. Ioan, M. Pinteala, B. C. Simionescu
A XXIV-a Sesiune Națională de Comunicări Științifice, octombrie 1998,
Căciulata – Vâlcea, II, II-650 (1998)
176. Conformational Characteristics of Polystyrene in Dilute Solutions of Ethyl Acetate
M. Bercea, S. Morariu, S. Ioan, B. C. Simionescu
A XXIV-a Sesiune Națională de Comunicări Științifice, octombrie 1998,
Căciulata – Vâlcea, II, II-662 (1998)
177. Semidilute Solutions of Ultrahigh Molecular Weight Poly(methyl methacrylate) Submitted to Sinusoidal Oscillations
C. Ioan, J. - L. Vernet, M. Bercea, B. C. Simionescu
A XXIV-a Sesiune Națională de Comunicări Științifice, octombrie 1998,
Căciulata – Vâlcea, II, II-668 (1998)
178. Viscometric Study of Polyacrylonitrile Solutions over a Large Domain of Concentrations
S. Morariu, M. Bercea, S. Ioan, B. C. Simionescu
A XXIV-a Sesiune Națională de Comunicări Științifice, octombrie 1998,
Căciulata – Vâlcea, II, II-674 (1998)
179. Rheology of Entangled Polymer Solutions
M. Bercea, B. C. Simionescu
Mem. Sect. St., IV, XXI, 121 (1998)
180. Conformational Characteristics of Oligo- and Polyacrylonitrile in Dilute Solution
S. Morariu, M. Bercea, C. Ioan, S. Ioan, B. C. Simionescu
Eur. Polym. J., 35, 377 (1999)
181. Materiale polimere pe bază de polietilenimine N-acil/aryl substituie. Obținere, proprietăți, aplicații posibile
G. David, V. Alupei, M. Rusa, B. C. Simionescu
Conferința Internațională de Știința și Ingineria Materialelor Bramat '99, februarie 1999,
Brasov, IV, 224 (1999)
182. Specific Phenomena in Dilute Solutions of Oligomers
S. Ioan, M. Bercea, S. Morariu, C. Ioan, B. C. Simionescu
Conferința Internațională de Știința și Ingineria Materialelor Bramat '99, februarie 1999,
Brasov, IV, 312 (1999)
183. Viscometric Study of Extremely Dilute Polyacrylonitrile Solutions
M. Bercea, S. Morariu, C. Ioan, S. Ioan, B. C. Simionescu
Eur. Polym. J., 35, 2019 (1999)
184. Ultrahigh Molecular Weight Polymers in Dilute Solutions
M. Bercea, C. Ioan, S. Ioan, B. C. Simionescu, C. I. Simionescu
Prog. Polym. Sci., 24, 379 (1999)
185. Correlations between Mark-Houwink-Sakurada Parameters for Linear and Star-like Polymers
C. Ioan, S. Ioan, B. C. Simionescu
Macromol. Symp., 138, 191 (1999)
186. Short- and Long-range Interaction Parameters for Polydimethylsiloxanes with Different Terminal Groups
G. Grigorescu, S. Ioan, B. C. Simionescu
Macromol. Symp., 138, 197 (1999)
187. Conformational Transitions of High Molecular Weight Poly(methyl methacrylate) in Dilute Solutions
M. Bercea, K. Gosa, B. C. Simionescu
Polym. Plast. Technol. Eng., 38, 87 (1999)

188. Ionically Conducting Networks Derived from PEO Containing Aziridine Groups
M. Pinteala, V. Harabagiu, B. C. Simionescu, Ph. Guegan, H. Cheradame
Polym. Int., 48, 1 (1999)
189. Siloxane Containing Copolymers. 2. Synthesis of Poly(vinyl-g-dimethylsiloxane) Copolymers
V. Lungu, V. Harabagiu, M. Pinteala, Th. Hamaide, B. C. Simionescu, C. I. Simionescu
Rev. Roum. Chim., 44, 811 (1999)
190. The Influence of Polydimethylsiloxanes Terminal Groups on the Excluded Volume Effect
S. Ioan, G. Grigorescu, B. C. Simionescu
Polish J. Appl. Chem., XLIII, 3 (1999)
191. Relationship between Intrinsic Viscosity and Molecular Weight for Linear Aminopropyl-terminated Polydimethylsiloxane (PDMS-NH₂)
G. Grigorescu, C. Ioan, S. Ioan, V. Harabagiu, B. C. Simionescu
Rev. Roum. Chim., 44, 607 (1999)
192. Copolymerization of 2-(o-chlorophenyl)-4-methylene-1,3-dioxolane with Vinyl Monomers. Conformational Transitions in Dilute Solutions
S. Morariu, M. Bercea, S. Ioan, B. C. Simionescu
Bul. St. Univ. Politehnica Timisoara, 44 (58), 2, 156 (1999)
193. Extremely Dilute Polystyrene Solutions. An Empirical Equation for Viscometric Behaviour
M. Bercea, S. Morariu, S. Ioan, B. C. Simionescu
Bul. St. Univ. Politehnica Timisoara, 44 (58), 2, 140 (1999)
194. Flow Properties of Ultrahigh Molecular Weight Poly(methyl methacrylate) in Semidilute Solutions
C. Ioan, M. Bercea, J.-L. Vernet, B. C. Simionescu
Polym. Plast. Technol. Eng., 38, 255 (1999)
195. Correlations between Mark – Houwink – Sakurada Parameters for Linear Polymers
C. Ioan, B. C. Simionescu
Bul. St. Univ. Politehnica Timisoara, 44 (58), 2, 146 (1999)
196. Influence of Terminal Groups on the Conformation of Polydimethylsiloxanes in Solutions
G. Grigorescu, S. Ioan, M. Pinteala, B. C. Simionescu
Bul. St. Univ. Politehnica Timisoara, 44 (58), 2, 151 (1999)
197. On the Influence of Polymers Polydispersity on the Excluded Volume Effect
S. Ioan, C. Ioan, G. Grigorescu, B. C. Simionescu
Bul. St. Univ. Politehnica Timisoara, 44 (58), 2, 163 (1999)
198. Copolymers of 2-(o-chlorophenyl)-4-methylene-1,3-dioxolane with Methyl Methacrylate. Conformational Characteristics in Dilute Solutions
S. Morariu, M. Bercea, S. Ioan, B. C. Simionescu
Bull. Chem. Technol. Macedonia, 19, 49 (2000)
199. Photoinduced Copolymerization of 2-substituted-2-oxazolines
G. David, M. Rusa, M. J. M. Abadie, B. C. Simionescu
Bul. Inst. Polit. Iasi, XLVI (L), fasc. 1-2, 73 (2000)
200. Synthesis and Photocrosslinking of Benzyl Acrylate Substituted Polydimethylsiloxanes
C. Iojoiu, M. J. M. Abadie, V. Harabagiu, M. Pinteala, B. C. Simionescu
Eur. Polym. J., 36, 2115 (2000)
201. Synthesis and Photocrosslinking of Polysiloxanes Containing End or Chain Reactive Groups
C. Iojoiu, M. Ropot, M. J. M. Abadie, V. Harabagiu, M. Pinteala, B. C. Simionescu
SITA (Scientific Israel: Technological Advantages), 2, 6 (2000)
202. Dinamic Behaviour of Ultrahigh Molecular Weight Poly(methyl methacrylate) in Semidilute Solutions
C. Ioan, M. Bercea, J.-L. Vernet, B. C. Simionescu
Macromol. Symp., 158, 169 (2000)
203. Functional Polysiloxanes. 6. Synthesis of Aziridine – terminated Polydimethylsiloxanes
C. Iojoiu, M. Pinteala, E. Rusu, V. Harabagiu, Ph. Guegan, H. Cheradame, M. Gaspar, B. C. Simionescu
Rev. Roum. Chim., 45, 655 (2000)

204. Formation and Properties of Some Polyelectrolyte Complexes between Strong Complementary Polyelectrolytes
St. Dragan, M. Cristea, B. C. Simionescu
Rev. Roum. Chim., 45, 763 (2000)
205. Siloxane and N-acetyliminoethylene Based Copolymers Obtained by Combined Polymer Synthesis Techniques
B. C. Simionescu, V. Harabagiu, G. David, M. Pinteala, V. Lungu
Mol. Cryst. Liquid Cryst., 354, 269 (2000)
206. Curing Kinetics of Liquid-crystalline Epoxy Resins with Inverse Reactivity Ratios
A. Mititelu, T. Hamaide, C. Novat, J. Dupuis, C. N. Cascaval, B. C. Simionescu, P. Navard
Macromol. Chem. Phys., 201, 1209 (2000)
207. 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)
208. La polymerisation photoinduite sans photoamorceur du système hydroxybutyl vinyl ether/ disiloxane phenylmaleimide
C. Iojoiu, M. Sava, M. Pinteala, V. Harabagiu, M. J. M. Abadie, B. C. Simionescu, C. I. Simionescu
Rev. Roum. Chim., 46, 703 (2001)
209. End-capping of Living Poly(2-methyl-2-oxazoline) with Maleic Acid
G. David, V. Alupei, B. C. Simionescu
Eur. Polym. J., 37, 1353 (2001)
210. Poly(N-acetyliminoethylene) Macromonomers. Applications
G. David, V. Alupei, A. Ioanid, B. C. Simionescu
Int. Conf. Materials Sci. Eng., IV, 185 (2001)
211. Maleic Polyelectrolytes as Phosphate Substitutes for Ecologically Friendly Detergent Formulation
G. C. Chitanu, G. Aldea, B. C. Simionescu
12th Romanian Int. Conf. Chem. Chem. Eng., 307 (2001)
212. Dispersion Copolymerization of Styrene with Poly[(N-acetylimino)ethylene] Macromonomers
V. Alupei, G. David, A. Ioanid, B. C. Simionescu
12th Romanian Int. Conf. Chem. Chem. Eng., 78 (2001)
213. Metal Complexes with Macromolecular Ligands
V. Epure, V. Harabagiu, M. Pinteala, B. C. Simionescu, C. Turta, V. Sofranschi, I. Bulhac
Mem. Sect. St., IV, XXIV, 77 (2001)
214. Synthèse et caractérisation de quelques maleimide disiloxanes. Etude de leur capacité de photoamorage
C. Iojoiu, V. Harabagiu, M. Pinteala, B. C. Simionescu, M. J. M. Abadie
Bul. St. Univ. Politehnica Timisoara, 46 (60), 1-2, 19 (2001)
215. Copolymères à blocs amphiphiles PNAI/PSt obtenus par photopolymérisation
M. Rusa, M. J. M. Abadie, B. C. Simionescu
Bul. St. Univ. Politehnica Timisoara, 46 (60), 1-2, 65 (2001)
216. Microemulsion Photopolymerization of Methacrylates Stabilized with Sodium Dodecyl Sulfate and Poly(N-acetyleneimine) Macromonomers
G. David, F. Ozer, B. C. Simionescu, H. Zareie, E. Piskin
Eur. Polym. J., 38, 73 (2002)
217. Synthesis and Characterization of α,ω -bis(maleimide-ester) and α,ω -bis(maleimide-amide) Substituted Polysiloxanes
U. Cernenco, M. Pinteala, V. Harabagiu, M. Sava, B. C. Simionescu
Rev. Roum. Chim., 47, 257 (2002)
218. Synthesis and Properties of some New Polyazomethine-urethanes
E. C. Buruiana, M. Olaru, B. C. Simionescu
Eur. Polym. J., 38, 1079 (2002)
219. Synthesis and Photocrosslinking of Benzyl (Meth)acrylate Substituted Polydimethylsiloxanes: Influence of Photoinitiator Nature
C. Iojoiu, V. Harabagiu, M. Pinteala, M. J. M. Abadie, B. C. Simionescu
J. Macromol. Sci. – Pure Appl. Chem., A39, 467 (2002)

220. Synthesis of Conducting Polysiloxane – Polypyrrole Graft Copolymers
O. Gunaydin, L. Toppare, Y. Yagci, V. Harabagiu, M. Pinteala, B. C. Simionescu
Polym. Bull., 47, 501 (2002)
221. On the Photoreactivity of Oxirane-terminated Polydimethylsiloxanes
C. Iojoiu, V. Harabagiu, M. Pinteala, M. J. M. Abadie, B. C. Simionescu
Rev. Roum. Chim., 47, 733 (2002)
222. 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. Pinteala, B. C. Simionescu
Eur. Polym. J., 38, 2197 (2002)
223. Rheology of Very High Molecular Weight Poly(methyl methacrylate) Solutions
M. Bercea, B. C. Simionescu
Rev. Roum. Chim., 47, 155 (2002)
224. Kinetic Investigation of the Photo(co)polymerization of Poly(2-methyl-2-oxazoline) Macromonomers
V. Alupei, M. J. M. Abadie, B. C. Simionescu
Rev. Roum. Chim., 47, 973 (2002)
225. Poly(*N*-isopropylacrylamide)/poly[*(N*-acetylimino)ethylene] Thermosensitive Block and Graft Copolymers
G. David, V. Alupei, B. C. Simionescu, S. Dinçer, E. Piskin
Eur. Polym. J., 39, 1209 (2003)
226. Poly[*(N*-acetylimino)ethylene] Macromonomers with Maleic Moieties in the Dispersion Copolymerization with Styrene
V. Alupei, G. David, M. J. M. Abadie, B. C. Simionescu
J. Macromol. Sci. – Pure Appl. Chem., 40, 547 (2003)
227. 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)
228. Morphological Study of Poly[*(N*-acetylimino)ethylene]/polystyrene Block and Graft Copolymers
A. Ioanid, G. David, B. C. Simionescu
Rev. Roum. Chim., 48, 873 (2003)
229. Poly[*(N*-Acylimino)ethylene]s – Advanced Materials
G. David, A. Ioanid, B. C. Simionescu
J. Non-Linear Optics, Quantum Optics, 30, 233 (2003)
230. Modified Poly(ϵ -caprolactone)s and Their Use for Drug Encapsulating Nanoparticles
C. Iojoiu, T. Hamaide, V. Harabagiu, B. C. Simionescu
J. Polym. Sci.: Part A: Polym. Chem., 40, 689 (2004)
231. 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. Pinteala, V. Epure, V. Harabagiu, B. C. Simionescu, S. Schlick
Macromolecules, 37, 4623 (2004)
232. Synthesis and Characterization of Persilylated Cyclodextrins
V. Harabagiu, B. C. Simionescu, M. Pinteala, C. Merrienne, J. Mahuteau, P. Guegan, H. Cheradame
Carbohydr. Polym., 56, 301 (2004)
233. Layer by Layer Deposition of Rhodamine 6G Films Using Maleic Acid Copolymers as Anionic Partners
G. Aldea, G. C. Chitanu, J.-M. Nunzi, S. Dabos - Seignon, B. C. Simionescu
J. Non-Linear Optics, Quantum Optics, 32, 117 (2004)
234. Self-Assembled LbL Opto-Electronics from Maleic Anhydride Copolymers
G. Aldea, J.-M. Nunzi, H. Gutierrez, G. C. Chitanu, M. Sylla, B. C. Simionescu
Proc. IEEE – ISIE 2004, 1413-1416, May 4-7 (2004)
235. Polyelectrolyte Multilayers Deposition with Maleic Anhydride Copolymer Derivatives
G. Aldea, J.-M. Nunzi, G. C. Chitanu, J. Cousseau, B. C. Simionescu
Proc. IUPAC Macro, Paris, France (2004)

236. Production of Nanoparticles of Methyl Methacrylate and Butyl Methacrylate Copolymers by Microemulsion Polymerization in the Presence of Maleic Acid Terminated Poly(N-acetyleneimine) Macromonomers as Cosurfactant
C. Babac, G. Guven, G. David, B. C. Simionescu, E. Piskin
Eur. Polym. J., 40, 1947 (2004)
237. Photobase-Generating New Polyurethanes with Oxime-Urethane Groups in the Main Chain
E. C. Buruiana, M. Olaru, B. C. Simionescu
J. Appl. Polym. Sci., 94, 2324 (2004)
238. Poly(ester-N-substituted urethanes) with Carboxylate Groups. Synthesis, Characterization and Solution Properties
E. C. Buruiana, M. Olaru, T. Buruiana, B. C. Simionescu
Rev. Roum. Chim., 49, 753 (2004)
239. Biomedical Activity of Polyurethanes
M. Olaru, E. C. Buruiana, B. C. Simionescu
Mem. Sect. St., IV, XXVII, 19 (2004)
240. Synthesis and Characterization of Nitrogen – Bridged [C60] Fullerene/3-Deoxythymidine Conjugates
C. Ungurenasu, M. Pinteala, B. C. Simionescu
Synthesis, 361 (2005)
241. Polymeric Materials – from Fundamental Research to Specific Applications
B. C. Simionescu, M. Pinteala, A. Stanciu, Gh. Fundueanu, V. Harabagiu
Proceedings of the 8th ESAFORM Conference on Material Forming 2005, Cluj-Napoca, 21 (2005)
242. Viscometric Study of Poly(dimethylsiloxane-b-N-vinylpyrrolidone) in Water Solutions
V. Epure, S. Ioan, M. Pinteala, V. Harabagiu, B. C. Simionescu
High Perform. Polym., 17 (2), 251-261 (2005)
243. Synthesis of Polyurethane Cationomers with Anil Groups: Intramolecular Proton Transfer in Salicylideneanil Structures
E. C. Buruiana, M. Olaru, M. Strat, G. Strat, B. C. Simionescu
Polym. Int., 54 (9), 1296-1303 (2005)
244. Interpolymer Complexes between Hydrophobically Modified Poly(methacrylic acid) and Poly(N-vinylpyrrolidone)
M. Pinteala, T. Budtova, V. Epure, N. Belnikovich, V. Harabagiu, B. C. Simionescu
Polymer, 46 (9), 7047-7054 (2005)
245. Polystyrene/poly[(N-acetylmino)ethylene] Copolymers: Interaction with Platinum Compounds with Formation of Stable Hybrid Platinum Nanocatalyst/Polymer Systems
G. David, C. Paduraru, D. Bilba, B. C. Simionescu
Rev. Roum. Chim., 50 (7-8), 519-525 (2005)
246. Multifunctional, Water-Soluble, C60-Pendant Maleic Anhydride Copolymer
G. Aldea, G. C. Chitanu, J. Delaunay, J.-M. Nunzi, B. C. Simionescu, J. Cousseau
J. Polym. Sci.: Part A: Polym. Chem., 43, 5814-5822 (2005)
247. New Polymer Supported Manganese Catalyst for Olefin Epoxidation
G. David, B. C. Simionescu
J. Coll. Surface Sci., 6 (1), 5-12 (2006)
248. Biomedical Applications of Poly[(N-acylimino)ethylene]s. Gels, Interpenetrating Polymer Networks
G. David, M. Pinteala, B. C. Simionescu
Digest J. Nanomat. Biostruct., 1 (4), 129-138 (2006)
249. Functional Oligosiloxanes: Synthesis and UV Curing Kinetics
C. Iojoiu, M. Pinteala, B. C. Simionescu, J.-Y. Sanchez, M. J. M. Abadie
Current Trends in Polymer Science, 10, 55-67 (2006)
250. Piperazinyl-Modified Polysiloxanes and their Cu (II) Complexes
V. Epure, V. Hamciuc, L. Pricop, M. Pinteala, A. Airinei, V. Harabagiu, B. C. Simionescu, D. Enescu, A. Perichaud
High Perform. Polym., 19 (3), 270-282 (2007)
251. Functional Micro- and Nanoparticles – a Possible Tool for Nanostructured Materials
G. David, B. C. Simionescu, C. I. Simionescu
Rev. Roum. Chim., 52 (1-2), 105-112 (2007)

252. Polymeric Materials – from Fundamental Research to Specific Applications
B. C. Simionescu, M. Pinteala, A. Stanciu, Gh. Fundueanu, V. Harabagiu
Int. J. Forming Processes, 10 (1), 9-22 (2007)
253. Second Harmonic Generation Diagnostic of Layer by Layer Deposition from Disperse Red 1 – Functionalized Maleic Anhydride Copolymer
G. Aldea, H. Gutierrez, J. - M. Nunzi, G. C. Chitanu, M. Sylla, B. C. Simionescu
Optical Materials, 29, 1640-1646 (2007)
254. Synthesis, Structure, and Thermal Properties of Polyrotaxanes Derived from β -Cyclodextrin and Polydimethylsiloxane
T. E. Sukhanova, S. V. Bronnikov, A. I. Grigor'ev, G. N. Gubanov, M. P. Perminova, N. Marangoci, M. Pinteala, V. Harabagiu, B. C. Simionescu
Russian J. Appl. Chem., 80 (7), 1111-1115 (2007) (*Zhurnal Prikladnoi Khimii*, 80 (7), 1141-1146 (2007))
255. Synthesis of Polymer Supported Transition Metal Catalysts for Olefin Epoxidation
G. David, B. C. Simionescu, C. I. Simionescu
Rev. Roum. Chim., 52 (8-9), 875-882 (2007)
256. Synthesis of Polyacrylamide-based Hydrogels by Simultaneous Polymerization/Crosslinking
C. Mihailescu, A. Dumitrescu, B. C. Simionescu, V. Bulacovschi
Rev. Roum. Chim., 52 (11), 1071-1076 (2007)
257. Chitosan – Siloxane Hybrid Membranes. Synthesis and Physico-chemical Characterization
D. Enescu, V. Hamciuc, L. Pricop, V. Harabagiu, B. C. Simionescu
Adv. Chitin Science, X, 296-301 (2007)
258. Synthesis and Photochemical Investigations of Novel Bistriazene Polyurethanes
E. C. Buruiana, V. Melinte, T. Buruiana, B. C. Simionescu, T. Lippert, L. Urech
J. Photochem. Photobiol. A: Chem., 186, 270-277 (2007)
259. Photochemical Aspects in Anthracene-containing Cationic Polyurethanes
E. C. Buruiana, M. Olaru, B. C. Simionescu
Eur. Polym. J., 43, 1359-1371 (2007)
260. Inclusion Complexes of Sulconazole with Cyclodextrins: Characterization in Aqueous Solution and in Solid State
M. Spulber, A. Fifere, M. Pinteala, V. Harabagiu, B. C. Simionescu
Fungi & Mycotoxins, 1 (2), 71-76 (2007)
261. Inclusion Complexes of Sulconazole with Hydroxypropyl β -Cyclodextrin: Characterization in Aqueous Solution and in Solid State
M. Spulber, A. Fifere, A. Durdureanu – Angheluta, N. Marangoci, M. Pinteala, B. C. Simionescu
Bull. Faculty Veterinary Medicine, 50, 25-33 (2007)
262. Synthesis and Characterization of a new Pseudorotaxane for Biological Applications
M. Spulber, X. Patras, M. Mares, V. Harabagiu, M. Pinteala, B. C. Simionescu
Bull. Transilvania Univ. Brasov, BRAMAT 2, 229-233 (2007)
263. Synthesis and Characterization of Polyrotaxanes based on Cyclodextrins and Viologen-modified Polydimethylsiloxanes
N. Marangoci, A. Fifere, A. Farcas, V. Harabagiu, M. Pinteala, B. C. Simionescu, A. Perichaud
High Perform. Polym., 20, 553-566 (2008)
264. Inclusion Complexes of Sulconazole with β -Cyclodextrin and Hydroxypropyl β -Cyclodextrin: Characterization in Aqueous Solution and in Solid State
M. Spulber, M. Pinteala, V. Harabagiu, B. C. Simionescu
J. Incl. Phenom. Macrocycl. Chem., 61, 41-51 (2008)
265. Water Soluble Complexes of Methyl β -Cyclodextrin and Sulconazole Nitrate
M. Spulber, M. Pinteala, A. Fifere, C. Moldoveanu, I. Mangalagiu, V. Harabagiu, B. C. Simionescu
J. Incl. Phenom. Macrocycl. Chem., 62, 135-142 (2008)
266. Inclusion Complexes of 5-Flucytosine with β -Cyclodextrin and Hydroxypropyl- β -Cyclodextrin: Characterization in Aqueous Solution and in Solid State
M. Spulber, M. Pinteala, A. Fifere, V. Harabagiu, B. C. Simionescu
J. Incl. Phenom. Macrocycl. Chem., 62, 117-125 (2008)

267. Polydimethylsiloxane-modified Chitosan. Complexes of Divalent Metals
D. Enescu, V. Hamciuc, D. Timpu, V. Harabagiu, B. C. Simionescu
J. Optoelect. Adv. Mat., 10 (6), 1473-1477 (2008)
268. Polyrotaxanes Composed of β -Cyclodextrin and Polydimethylsiloxanes: Synthesis, Morphology and Thermal Behaviour
N. Marangoci, A. Farcas, M. Pinteala, V. Harabagiu, B. C. Simionescu, T. Sukhanova, S. Bronnikov, A. Grigoryev, G. Gubanova, M. Perminova, A. Perichaud
High Perform. Polym., 20 (3), 251-266 (2008)
269. Thermal Behavior of Aromatic Polyamic Acids and Polyimides Containing Oxadiazole Rings
M. Cristea, D. Gheorghiu Ionita, M. Bruma, B. C. Simionescu
J. Thermal Anal. Cal., 93 (1), 63-68 (2008)
270. 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)
271. Neural Network Modeling Applied to Polyacrylamide Based Hydrogels Synthesized by a Single Step Process
S. Curteanu, A. Dumitrescu, C. Mihailescu, B. C. Simionescu
Polym. Plast. Technol. Eng., 47 (10), 1061-1071 (2008)
272. Synthesis and Properties of New Poly(urethane-acrylates) with Pendant Triazene Moieties
E. C. Buruiana, V. Melinte, T. Buruiana, B. C. Simionescu
Des. Monom. Polym., 11 (5), 423-433 (2008)
273. Spectroscopic Characterization of α -Cyclodextrin – Sulconazole Inclusion Complexes. Determination of Binding Constants by Rose – Drago Approximation
M. Spulber, M. Pinteala, A. Fifere, V. Harabagiu, B. C. Simionescu
Fungi & Mycotoxins, 2 (2), 189-192 (2008)
274. Dynamic Mechanical Analysis on Regenerated Cellulose
M. Cristea, D. Ionita, B. C. Simionescu
Rev. Chim., 53 (10), 1088-1091 (2008)
275. Synthesis and Thermal Properties of Polyrotaxanes Derived from γ -Cyclodextrin and Modified Polydimethylsiloxane
T. E. Sukhanova, M. P. Perminova, S. V. Bronnikov, A. I. Grigor'ev, A. Ya. Volkov, G. N. Gubanova, A. A. Kutin, N. Marangoci, V. Harabagiu, B. C. Simionescu
Russian J. Appl. Chem., 81 (12), 2145-2150 (2008)
276. Synthesis and Characterization of Polyrotaxanes based on Cyclodextrins and Viologen-modified Polydimethylsiloxanes
N. Marangoci, A. Fifere, A. Farcas, V. Harabagiu, M. Pinteala, B. C. Simionescu, A. Perichaud
High Perform. Polym., 20, 553-566 (2008)
277. Silane Covered Magnetic Particles. Preparation and Characterization
A. Durdureanu-Angheluta, R. Ardeleanu, M. Pinteala, V. Harabagiu, H. Chiriac, B. C. Simionescu
Digest. J. Nanomat. Biostruct., 3, 33-40 (2008)
278. Determination of Binding Constants between Cyclodextrins and Sulconazole Antifungal Drug by Hildebrand-Bennessy Approximation
M. Spulber, M. Pinteala, V. Harabagiu, B. C. Simionescu, A. Fifere
Fungi & Mycotoxins 2, 152-156 (2008)
279. Noncovalent Immobilization of Collagen on the Surface of Silanized Hydroxyapatite
M. Olaru, B. C. Simionescu, C. Cotofana, X. Patras
Optoelectronics Adv. Mat. – Rapid Commun., 2, 726-729 (2008)
280. Testing and evaluation methods for polymers biodegradation
A. Dumitrescu, C. Mihailescu, B. C. Simionescu, M. Daranga
Mem. Sect. Stiintifice, Academia Romana, Seria IV, 31, 35-76 (2008)
281. Rheological characterization of binders for alkyd resin coatings
C. Ibanescu, M. Danu, S. A. Ibanescu, M. Lungu, B. C. Simionescu
J. Colloid Surf. Chem., 8, 5-12 (2008)

282. Composite Materials Based on Polydimethylsiloxane and *in situ* Generated Silica by Using the Sol-Gel Technique
M. Alexandru, M. Cristea, M. Cazacu, A. Ioanid, B. C. Simionescu
Polym. Compos. 30 (6), 751-759 (2009)
283. Polydimethylsiloxane-modified Chitosan. I. Synthesis and Structural Characterization of Graft and Crosslinked Copolymers
D. Enescu, V. Hamciuc, L. Pricop, Th. Hamaide, V. Harabagiu, B. C. Simionescu
J. Polym. Res. 16 (1), 73-80 (2009)
284. Disperse Red 1 End Capped Oligoesters. Synthesis by Noncatalyzed Ring Opening Oligomerization and Structural Characterization
C. Peptu, V. Harabagiu, B. C. Simionescu, G. Adamus, M. Kowalczyk, J.-M. Nunzi
J. Polym. Sci.: Part A: Polym. Chem., 47, 534-547 (2009)
285. 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)
286. The Synthesis of Polyacrylamide-based Multi-component Hydrogels. A Neural Network Modeling
S. Curteanu, A. Dumitrescu, C. Mihailescu, B. C. Simionescu
J. Macromol. Sci., Part A: Pure Appl. Chem., 46, 368-380 (2009)
287. Synthesis, Morphology, and Thermal Behavior of Polyrotaxanes Composed of γ -Cyclodextrin and Polydimethylsiloxanes
N. Marangoci, A. Farcas, M. Pinteala, V. Harabagiu, B. C. Simionescu, T. Sukhanova,
M. Perminova, A. Grigoryev, G. Gubanova, S. Bronnikov
J. Incl. Phenom. Macrocycl. Chem., 63, 355-364 (2009)
288. Inclusion Complexes of γ -Cyclodextrin and Carboxyl-modified γ -Cyclodextrin with C₆₀: Synthesis, Characterization and Controlled Release Application via Microgels
A. Fifere, T. Budtova, E. Tarabukina, M. Pinteala, C. Peptu, V. Harabagiu,
B. C. Simionescu
J. Incl. Phenom. Macrocycl. Chem., 64 (1-2), 83-94 (2009)
289. Mild and selective oxidation of cellulose fibers in the presence of N-hydroxyphthalimide
S. Coseri, G. Nistor, L. Fras, S. Strnad, V. Harabagiu, B. C. Simionescu
Biomacromolecules, 10 (8), 2294-2299 (2009)
290. Water Soluble Sulconazole- β -Cyclodextrin Complex: Physico-chemical Characterization and Preliminary Pharmacological Studies
L. Miron, M. Mares, V. Nastasa, M. Spulber, A. Fifere, M. Pinteala, V. Harabagiu,
B. C. Simionescu
J. Inclusion Phenom. Macrocyclic Chem., 63, 159-162 (2009)
291. Water Soluble 5 FC Complexes, Preliminary Pharmacological Studies
M. Spulber, L. Miron, M. Mares, V. Nastasa, M. Pinteala, A. Fifere, V. Harabagiu,
B. C. Simionescu
J. Inclusion Phenom. Macrocyclic Chem., 65, 431-435 (2009)
292. Complex Supramolecular Architectures for Optoelectronic Applications
A. Farcas, E.-G. Hitruc, N. Jarroux, V. Harabagiu, Ph. Guegan, B. C. Simionescu
Polyimides & High Performance Polymers – STEPI 8, Montpellier 2 University, 409-418 (2009)
293. Glycidoxypylsilane-functionalized Magnetite as Precursor for Polymer-covered Core-shell Magnetic Particles
A. Durdureanu-Angheluta, I. Stoica, M. Pinteala, L. Pricop, F. Doroftei, V. Harabagiu,
B. C. Simionescu, H. Chiriac
High Perform. Polym., 21 (5), 548-561 (2009)
294. Poly[(N-Acylimino)ethylene] Derivatives for Advanced Materials
G. David, B. C. Simionescu
High Perform. Polym., 21 (5), 596-607 (2009)

295. Semi-empirical PM3 Study of the Complexation of alpha-Cyclodextrin with 5-Flucytosine
A. Fifere, M. Pinteala, M. Spulber, V. Harabagiu, B. C. Simionescu, M. Mracec
AIP Conference Proceedings: Computational Methods in Science and Engineering: Advances in Computational Science (Lectures presented at the International Conference on Computational Methods in Sciences and Engineering, 25-30 September, 2008, Hersonissos, Creta, Greece (ICCMSE 2008)), 1148, 83-86 (2009)
296. New biocompatible polyesters based on bile acids
M. C. Stanciu, M. Nichifor, B. C. Simionescu
Rev. Roum. Chim., 54 (11-12), 951-955 (2009)
297. Synthesis and characterization of magnetite particles covered with α -triethoxysilil- polydimethylsiloxane
A. Durdureanu-Angheluta, L. Pricop, I. Stoica, C.-A. Peptu, A. Dascalu, N. Marangoci, F. Doroftei, H. Chiriac, M. Pinteala, B. C. Simionescu
J. Magnetism Magn. Mat., 322 (19), 2956-2968 (2010)
298. 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)
299. Fluorescence study of intermolecular interactions in diluted aqueous solutions of some cationic amphiphilic polysaccharides
M. Nichifor, M. C. Stanciu, B. C. Simionescu
J. Macromol. Sci., Part B: Physics, 49 (5), 983-993 (2010)
300. Entrapment and release of drugs by a strict "on-off" mechanism in pullulan microspheres with pendant thermosensitive groups
G. M. Fundueanu, M. G. Constantin, I. I. Oanea, V. Harabagiu, P. Ascenzi, B. C. Simionescu
Biomaterials, 31 (36), 9544-9553 (2010)
301. Mass spectrometry characterization of 3-OH butyrate β -cyclodextrin
C. Peptu, A. Nicolescu, C. A. Peptu, V. Harabagiu, B. C. Simionescu, M. Kowalczyk
J. Polym. Sci.: Part A: Polym. Chem., 48 (23), 5581-5592 (2010)
302. A new insight into the dynamo-mechanical behaviour of poly(ethylene terephthalate)
M. Cristea, D. Ionita, B. C. Simionescu
Eur. Polym J., 46 (10), 2005-2012 (2010)
303. Silicone-modified cellulose. Crosslinking of cellulose acetate with poly[dimethyl(methyl-H)siloxane] by Pt-catalyzed dehydrogenative coupling
G. Stiubianu, C. Racles, M. Cazacu, B. C. Simionescu
J. Mater. Sci., 45 (15), 4141-4150 (2010)
304. An intelligent multicompartimental system based on thermo-sensitive starch microspheres for temperature-controlled release of drugs
G. Fundueanu, M. Constantin, P. Ascenzi, B. C. Simionescu
Biomedical Microdevices, 12 (4), 693-704 (2010)
305. Synthesis and micellisation of polydimethylsiloxane-carboxy terminated poly(ethylene oxide) graft copolymer in aqueous and organic media and its applications for synthesis of core-shell magnetic particles
L. Pricop, A. Durdureanu-Angheluta, M. Spulber, I. Stoica, A. Fifere, N. L. Marangoci, A. I. Dascalu, R. Tigoianu, V. Harabagiu, M. Pinteala, B. C. Simionescu
e-Polymers, Paper No. 093, 1-19 (2010)
306. Polydimethylsiloxane/silica/titania composites prepared by solvent-free sol-gel technique
M. Alexandru, M. Cazacu, A. Nistor, V. E. Musteata, I. Stoica, C. Grigoras, B. C. Simionescu
J. Sol-Gel Sci. Technol., 56 (3), 310-319 (2010)
307. Structure, morphology, and thermal properties of polyrotaxanes based on calyx[6]arene and modified polydimethylsiloxane
M. P. Sokolova, S. V. Bronnikov, T. E. Sukhanova, A. I. Grigorev, A. Y. Volkov, G. N. Gubanov, A. A. Kutin, A. Farcas, M. Pinteala, V. Harabagiu, B. C. Simionescu
Russ. J. Appl. Chem., 83, 109-114 (2010)
308. Aggregation of aqueous solutions of some cationic amphiphilic polyelectrolytes
M. C. Stanciu, M. Nichifor, B. C. Simionescu
Chem. Bull. "Polytechnica" Univ. Timisoara, Chem. Environ. Eng., 55, 22-25 (2010)

309. Antinociceptive effect of morphiceptin loaded poly(butyl cyanoacrylate) nanoparticles
G. David, I. M. Jaba, B. Tamba, C. Bohotin, A. Neamtu, X. Patras, B. C. Simionescu, O. C. Mungiu
Rev. Roum. Chim., 55 (11-12), 923-931 (2010)
310. Stability of disperse systems estimated using rheological oscillatory shear tests
C. Ibanescu, M. Danu, A. Nanu, M. Lungu, B. C. Simionescu
Rev. Roum. Chim., 55 (11-12), 933-940 (2010)
311. On the morphology and potential application of polydimethylsiloxane-silica-titania composites
M. Alexandru, M. Cazacu, F. Doroftei, M. Ignat, D. Timpu, C. V. Grigoras, B. C. Simionescu
Express Polym. Lett., 5 (2), 188-196 (2011)
312. 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)
313. Semi-empirical PM3 study on complexation of β -cyclodextrin with 5-flucytosine
A. Fifere, M. Spulber, N. Marangoci, N. Fifere, M. Pinteala, V. Harabagiu,
B. C. Simionescu
Cell. Chem. Technol., 45 (3-4), 149-156 (2011)
314. Poly(siloxane-urethane) crosslinked structures obtained sol-gel technique
M. Alexandru, M. Cazacu, M. Cristea, A. Nichifor, C. Grigoras, B. C. Simionescu
J. Polym. Sci.: Part A: Polym. Chem., 49 (7), 1708-1718 (2011)
315. Cellulose modification by crosslinking with siloxane diacids
G. Stiubianu, C. Racles, A. Nistor, M. Cazacu, B. C. Simionescu
Cell. Chem. Technol., 45 (3-4), 157-162 (2011)
316. Synthesis and anti-HIV activity of β -cyclodextrin-C6-sulfate/3'-azido-3'-deoxythymidine inclusion complex
M. Sillion, A. Dascalu, B. C. Simionescu, M. Pinteala, C. Ungurenasu
J. Polym. Sci.: Part A: Polym. Chem., 49 (7), 1730-1733 (2011)
317. Effect of montmorillonite content in nanocomposites of segmented polyurethanes with poly(2-alkyl-2-oxazoline) sequences
G. David, B. C. Simionescu, S. Ibanescu, F. Vearba
High Perform. Polym., 23 (1), 74-84 (2011)
318. Chain packing versus chain mobility in semialiphatic BTDA-based copolyimides
M. Cristea, D. Ionita, C. Hulubei, D. Timpu, D. Popovici, B. C. Simionescu
Polymer, 52 (8), 1820-1828 (2011)
319. Inclusion complex of a new propiconazole derivative with β -cyclodextrin: NMR, ESI-MS and preliminary pharmacological studies
N. Marangoci, M. Mares, M. Sillion, A. Fifere, C. Varganici, A. Nicolescu, C. Deleanu,
A. Coroaba, M. Pinteala, B. C. Simionescu
Results in Pharma Sciences, 1 (1), 27-37 (2011)
320. Diagnosis of Type II Diabetes based on Non-glucose Regions of $(1)H$ NMR Spectra of Urine. A metabonornic approach
A. Nicolescu, B. Dolenko, T. Bezabeh, L. I. Stefan, C. Ciurtin, E. Kovacs, I. C. R. Smith,
B. C. Simionescu, C. Deleanu
Rev. Chim., 62 (12), 1150-1153 (2011)
321. Optical Properties of Some New Azo Photoisomerizable Bismaleimide Derivatives
A. Airinei, N. Fifere, M. Homocianu, C. Gaina, V. Gaina, B. C. Simionescu
Int. J. Molec. Sci., 12 (9), 6176-6193 (2011)
322. Micro-/Nanostructured polymeric materials: Poly(ϵ -caprolactone) crosslinked collagen sponges
G. David, B. C. Simionescu, S. Maier, C. Balhui
Digest J. Nanomat. Biostruct., 6 (4), 1575-1585 (2011)
323. Synthesis and structural characterization of 1-(3-aminopropyl)silatrane and some new derivatives
A. M.-C. Dumitriu, M. Cazacu, S. Shova, C. Turta, B. C. Simionescu
Polyhedron, 33 (1), 119-126 (2012)

324. Prediction of the appropriate size of drug molecules that could be released by a pulsatile mechanism from pH/thermoresponsive microspheres obtained from preformed polymers
G. Fundueanu, M. Constantin, I. Oanea, V. Harabagiu, P. Ascenzi, B. C. Simionescu
Acta Biomater., 8 (3), 1281-1289 (2012)
325. Progress in the synthesis and characterization of magnetite nanoparticles with amino groups on the surface
A. Durdureanu-Angheluta, A. Dascalu, A. Fifere, A. Coroaba, L. Pricop, H. Chiriac, V. Tura, M. Pinteala, B. C. Simionescu
J. Magnetism Magn. Mat., 324 (9), 1679-1689 (2012)
326. Molecular level differentiation between end-capped and intramolecular azofunctional oligo(ϵ -caprolactone) positional isomers through liquid chromatography multistage mass spectrometry
C. Peptu, O. F. Van Den Brink, V. Harabagiu, B. C. Simionescu, M. Kowalczyk, J. Silberring
J. Polym. Sci., Part A: Polym. Chem., 50 (12), 2421-2431 (2012)
327. Multivariate statistical analysis of mid-infrared spectra for a G1 allyl-terminated carbosilane dendrimer
M.-C. Popescu, B. C. Simionescu
Spectrochim. Acta – Part A: Mol. Biomol. Spectrosc., 92, 398-405 (2012)
328. Chemical modification of cellulose acetate by allylation and crosslinking with siloxane derivatives
G. Stiubianu, A. Nicolescu, A. Nistor, M. Cazacu, C. Varganici, B. C. Simionescu
Polym. Int., 61 (7), 1115-1126 (2012)
329. Thermal degradation of magnetite nanoparticles with hydrophilic shell
C.-D. Varganici, A. Durdureanu-Angheluta, D. Rosu, M. Pinteala, B. C. Simionescu
J. Anal. Appl. Pyrol., 96, 63-68 (2012)
330. Effect of Cross-Linking Methods on Structure and Properties of Poly(ϵ -caprolactone) Stabilized Hydrogels Containing Biopolymers
G. David, M. Cristea, C. Balhui, D. Timpu, F. Doroftei, B. C. Simionescu
Biomacromolecules, 13, 2263-2272 (2012)
331. Imino-chitosan biodynamers
L. Marin, B. Simionescu, M. Barboiu
Chem. Commun., 48, 8778-8780 (2012)
332. 2D IR Correlation Spectroscopy in Wood Science
C. - M. Popescu, M. - C. Popescu, B. C. Simionescu
Mem. Sect. St., IV, XXXV, 33-54 (2012)
333. PVA-based hybrid composites with luminescent properties for drug delivery
B. C. Simionescu, M. Olaru, I. Bordianu, C. Ursu, C. Cotofana
High Perform. Polym., 24 (6), 449-459 (2012)
334. Thermo-sensitive polymers based on graft polysiloxanes
A. D. Rusu Hodorog, C. Ibanescu, M. Danu, B. C. Simionescu, L. Rocha, N. Hurduc
Polym. Bull. 69, 579-595 (2012)
335. Polysiloxane ionic liquids as good solvents for β -cyclodextrin-polydimethylsiloxane polyrotaxane structures
N. Marangoci, R. Ardeleanu, L. Ursu, C. Ibanescu, M. Danu, M. Pinteala, B. C. Simionescu
Beilstein J. Org. Chem., 8, 1610-1618 (2012)
336. Gluten content influence on rheological behavior of starch-gluten networks
M. Danu, I. Rotaru, C. Ibănescu, N. Hurduc, S. A. Ibănescu, B. C. Simionescu
Environ. Eng. Manag. J., 11 (11), 1883-1888 (2012)
337. Effect of long-term and short-term dynamic mechanical evaluation of networks based on urethane and soybean oil
M. Cristea, D. Ionita, F. Doroftei, B. C. Simionescu
J. Mechanical Behavior Biomed. Mat., 17, 317-326 (2012)
338. Studies on new hybrid materials prepared by both Diels-Alder and Michael addition reactions
C. - D. Varganici, O. Ursache, C. Gaina, V. Gaina, B. C. Simionescu
J. Thermal Anal. Calorim., 111 (2), 1561-1570 (2013)

339. Oxidized cellulose – Survey of the most recent achievements
S. Coseri, G. Biliuta, B. C. Simionescu, K. Stana-Kleinschek, V. Ribitsch, V. Harabagiu
Carbohydr. Polym., 93 (1), 207-215 (2013)
340. Benzimidazolium-cyclodextrin inclusion complexes
A. Nicolescu, M. Balan, E. Georgescu, F. Georgescu, L. Ursu, B. C. Simionescu, P. Filip, C. Deleanu
Rev. Chim., 64 (4), 451-455 (2013)
341. Synthesis and characterization of a new thermoreversible polyurethane network
C.-D. Varganici, O. Ursache, C. Gaina, V. Gaina, D. Rosu, B. C. Simionescu
Ind. Eng. Chem. Res., 52 (15), 5287-5295 (2013)
342. Macroporous structures based on biodegradable polymers - Candidates for biomedical application
B. C. Simionescu, A. Neamtu, C. Balhui, M. Danciu, D. Ivanov, G. David
J. Biomed. Mater. Res. - Part A, 101 A (9), 2689-2698 (2013)
343. Influence of ionic structure on tribological properties of poly(dimethylsiloxane-alkylene oxide) graft copolymers
V. Totolin, N. Ranetcaia, V. Hamciuc, N. Shore, N. Dörr, C. Ibanescu, B. C. Simionescu, V. Harabagiu
Tribology Int., 67, 1–10 (2013)
344. Antifungal vanillin-imino-chitosan biodynameric films
L. Marin, I. Stoica, M. Mares, V. Dinu, B. C. Simionescu, M. Barboiu
J. Mater. Chem. B, 1 (27), 3353-3358 (2013)
345. Characterization by Fourier transform infrared spectroscopy (FT-IR) and 2D IR correlation spectroscopy of a carbosilane dendrimer with peripheral ammonium groups
M.- C. Popescu, R. Gómez, F. J. De La Mata, B. Rasines, B. C. Simionescu
J. Nanoparticle Res., 15 (6), art. no. 1713 (2013)
346. A study on electrospray mass spectrometry of fullerene C₆₀(OH)₂₄
M. Silion, A. Dascalu, M. Pinteala, B. C. Simionescu, C. Ungureanu
Beilstein J. Org. Chem., 9, 1285-1295 (2013)
347. Miscibility studies of some semi-interpenetrating polymer networks based on an aromatic polyurethane and epoxy resin
C.-D. Varganici, L. Rosu, D. Rosu, B. C. Simionescu
Composites Part B: Eng., 50, 273-278 (2013)
348. The thermosensitivity of pH/thermoreponsive microspheres activated by the electrostatic interaction of pH-sensitive units with a bioactive compound
G. Fundueanu, M. Constantin, I. Asmarandei, V. Harabagiu, P. Ascenzi,
B. C. Simionescu
J. Biomed. Mater. Res. - Part A, 101 A (6), 1661-1669 (2013)
349. Structural study of photodegraded acrylic-coated lime wood using fourier transform infrared and two-dimensional infrared correlation spectroscopy
C.-M. Popescu, B. C. Simionescu
Appl. Spectroscopy, 67 (6), 606-613 (2013)
350. Effects of chemical structure and chain end groups on the thermal stability of new silsesquioxanes with methacrylate and/or vinyl units
B. C. Simionescu, I.- E. Bordianu, N. Tudorachi, C. Cotofana, L. Ursu, A. Coroaba,
M. Drobeta, M. Olaru
Mater. Chem. Phys., 139 (2-3), 719-733 (2013)
351. 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)
352. Novel luminescent phenothiazine-based Schiff bases with tuned morphology. Synthesis, structure, photophysical and thermotropic characterization
A. Zabolica, M. Balan, D. Belei, M. Sava, B. C. Simionescu, L. Marin
Dyes Pigments, 96 (3), 686-698 (2013)

Books / book chapters

1. PROTEINE

C. I. Simionescu, B. C. Simionescu

Editura Științifică și Enciclopedică, București, 1982 (110 p)

2. CHIMIE MACROMOLECULARĂ

C. I. Simionescu, Cl. Vasiliu Oprea, V. Bulacovschi, B. C. Simionescu, C. Negulianu

Editura Științifică și Enciclopedică, București, 1985 (460 p)

3. Chimia și societatea contemporană

ȘTIINȚA ȘI CONTEMPORANEITATEA

C. I. Simionescu, B. C. Simionescu

Editura Politică, Colecția Idei Contemporane, București, 1980 (46-70)

4. Porphyrin-Like Compounds Genesis Under Simulated Abiotic Conditions

ORIGIN OF LIFE

C. I. Simionescu, B. C. Simionescu, M. Leanca, C. Ananiescu, R. Mora

D. Reidel Publ. Comp., Y. Wolman (editor), Amsterdam, 1981 (189-196)

5. Chimia macromoleculară și revoluția contemporană în știință și tehnologie

REVOLUȚIILE INDUSTRIALE ÎN ISTORIA SOCIETĂȚII

C. I. Simionescu, B. C. Simionescu

Editura Politică, Colecția Idei Contemporane, București, 1981 (73-86)

6. Unconventional Radical Polymerizations

PLENARY AND INVITED LECTURES, IUPAC MACRO 1983

C. I. Simionescu, B. C. Simionescu

Bucuresti, 1984 (52-65)

7. Aspects on Synthesis and Properties of Some Anion Exchangers

ION EXCHANGE PROCESSES: ADVANCES AND APPLICATIONS

C. Luca, V. Neagu, B. C. Simionescu

Royal Society of Chemistry, A. Dyer, M. J. Hudson, P. A. Williams (editori), London, 1993 (337-343)

8. Free Radically Initiated Ring-Opening Polymerization

ENCYCLOPEDIA OF POLYMERIC MATERIALS

B. C. Simionescu, S. Morariu

CRC Press, J. C. Salamone (editor), Boca Raton, USA (1996)

9. Ultrahigh Molecular Weight Polymers

ENCYCLOPEDIA OF POLYMERIC MATERIALS

S. Ioan, M. Bercea, B. C. Simionescu, C. I. Simionescu

CRC Press, J. C. Salamone (editor), Boca Raton, USA (1996)

10. Functional Polysiloxanes

ENCYCLOPEDIA OF POLYMERIC MATERIALS

V. Harabagiu, M. Pinteala, C. Cotzur, B. C. Simionescu

CRC Press, J. C. Salamone (editor), Boca Raton, USA (1996)

11. Siloxane-Containing Polymers

ENCYCLOPEDIA OF POLYMERIC MATERIALS

B. C. Simionescu, V. Harabagiu, C. I. Simionescu

CRC Press, J. C. Salamone (editor), Boca Raton, USA (1996)

12. Polyelectrolyte Complexes between a Weak Polyanion and a Strong Polycation with Cationic Groups in the Main Chain
PROGRESS IN ION EXCHANGE: ADVANCES AND APPLICATIONS
S. Dragan, M. Cristea, C. Luca, B. C. Simionescu
Royal Society of Chemistry, A. Dyer, M. J. Hudson, P. A. Williams (editori), London, 1997 (53-61)
13. An Unconventional Synthesis of Strongly Basic Anion Exchangers
PROGRESS IN ION EXCHANGE: ADVANCES AND APPLICATIONS
C. Luca, V. Neagu, G. Grigoriu, B. C. Simionescu
Royal Society of Chemistry, A. Dyer, M. J. Hudson, P. A. Williams (editori), London, 1997 (70-77)
14. Blends and Networks Containing Silicon-Based Polymers
HANDBOOK OF POLYMER BLENDS AND COMPOSITES, vol. 4B
V. Harabagiu, M. Pinteala, B. C. Simionescu
Rapra Technology, C. Vasile, A. K. Kulshreshtha (editori), Shawbury, 2003 (525-563)
15. Functional Micro- and Nanoparticles Based on Poly[(N-acylimino)ethylene]
BIOMATERIALS: FROM MOLECULES TO ENGINEERED TISSUES (Advances in Experimental Medicine and Biology, vol. 553)
B. C. Simionescu, G. David
Kluwer Acad./Plenum Publ., N. Hasirci, V. Hasirci (editori), New York, 2004 (1-18)
16. FENOMENE ȘI PROCESE CU RISC MAJOR LA SCARĂ NAȚIONALĂ
Fl. Gh. Filip, B. C. Simionescu (coordonatori)
Ed. Academiei Române, București, 2004
17. Macromolecular and Supramolecular Architectures based on Cellulose and Cyclodextrins
NEW TRENDS IN NATURAL AND SYNTHETIC POLYMER SCIENCE
V. Harabagiu, M. Pinteala, N. Marangoci, A. Fifere, B. C. Simionescu, H. Firgo, E. Muller, O. Bedue
Nova Science Publishers, Inc., C. Vasile, G. E. Zaikov (editori), New York, 2006 (55-67)
18. Polyrotaxanes with Cyclodextrins
NEW TRENDS IN (CO)POLYMERS AND HYBRIDS
A. Farcas, N. Marangoci, A. Fifere, M. Pinteala, V. Harabagiu, B. C. Simionescu
Nova Science Publishers, Inc., E. S. Dragan (editor), New York, 2006 (53-77)
19. New therapeutic agent with increased antifungal activity
MACROCYCLIC CHEMISTRY: NEW RESEARCH DEVELOPMENTS
M. Spulber, M. Pinteala, A. Fifere, V. Harabagiu, B. C. Simionescu
Nova Science Publishers, Inc., D. W. Fitzpatrick, H. J. Ulrich (editori), New York, 2010
20. Polymers in membrane science
SYSTEM MEMBRANES – COMPLEX ROAD MAPS TOWARD FUNCTIONAL DEVICES AND COUPLED PROCESSES
M. Olaru, I. Bordianu, B. C. Simionescu
Ed. Printech, M. Barboiu, G. Nechifor (editori), București, 2010 (191-240)
21. Building micro/nanostructured biopolymers *via* functional polymers
BIOMATERIALS AND PLASMA PROCESSING
B. C. Simionescu, G. David, V. Harabagiu
ISBN 978-973-703-543-1, N. Dumitrascu, I. Topala (editori), Iasi (242-273)
Editura Universității «Alexandru Ioan Cuza» Iași, 2011

