Aurica Chiriac

List of Publications by Year
in descending order

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117 papers	1,946 citations	331259 21 h-index	329751 37 g-index
119 all docs	119 docs citations	119 times ranked	2260 citing authors

#	Article	IF	Citations
1	Basic concepts and recent advances in nanogels as carriers for medical applications. Drug Delivery, 2017, 24, 539-557.	2.5	319
2	Trends in 3D Printing Processes for Biomedical Field: Opportunities and Challenges. Journal of Polymers and the Environment, 2020, 28, 1345-1367.	2.4	110
3	New Trends in Bio-Based Aerogels. Pharmaceutics, 2020, 12, 449.	2.0	103
4	Biodegradation of poly(lactic acid) and some of its based systems with Trichoderma viride. International Journal of Biological Macromolecules, 2016, 88, 515-526.	3.6	62
5	TGA/FTIR/MS study on thermal decomposition of poly(succinimide) and sodium poly(aspartate). Polymer Testing, 2011, 30, 397-407.	2.3	56
6	Magnetic field polymerisation. Progress in Polymer Science, 2000, 25, 219-258.	11.8	51
7	Hybrid collagen-based hydrogels with embedded montmorillonite nanoparticles. Materials Science and Engineering C, 2015, 53, 212-221.	3.8	44
8	Synthesis of hydrogels based on poly(NIPAM) inserted into collagen sponge. Colloids and Surfaces B: Biointerfaces, 2011, 87, 382-390.	2.5	37
9	Alginate enriched with phytic acid for hydrogels preparation. International Journal of Biological Macromolecules, 2021, 181, 561-571.	3.6	37
10	Interpenetrated polymer network with modified chitosan in composition and self-healing properties. International Journal of Biological Macromolecules, 2019, 132, 374-384.	3.6	35
11	Advancement in the Biomedical Applications of the (Nano)gel Structures Based on Particular Polysaccharides. Macromolecular Bioscience, 2019, 19, e1900187.	2.1	31
12	Polymeric Carriers Designed for Encapsulation of Essential Oils with Biological Activity. Pharmaceutics, 2021, 13, 631.	2.0	30
13	Synergistic behavior of poly(aspartic acid) and Pluronic F127 in aqueous solution as studied by viscometry and dynamic light scattering. Colloids and Surfaces B: Biointerfaces, 2013, 103, 544-549.	2.5	26
14	Multifunctional nanogels with dual temperature and pH responsiveness. International Journal of Pharmaceutics, 2016, 515, 165-175.	2.6	24
15	Novel Environmentally Friendly Copolymers Carboxymethyl Starch Grafted Poly(Lactic Acid). Journal of Polymers and the Environment, 2013, 21, 461-471.	2.4	23
16	Characterization of the semi-interpenetrated network based on collagen and poly(N-isopropyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	2.6	23
17	Stimuli Responsive Scaffolds Based on Carboxymethyl Starch and Poly(2â€Dimethylaminoethyl) Tj ETQq1 1 0.784314 rgBT /Overlock	2.1	23
18	Bioactive Collagen Hydrolysate-Chitosan/Essential Oil Electrospun Nanofibers Designed for Medical Wound Dressings. Pharmaceutics, 2021, 13, 1939.	2.0	23

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19	Hyaluronic acid gels with tunable properties by conjugating with a synthetic copolymer. Biochemical Engineering Journal, 2017, 125, 135-143.	1.8	22
20	Self-assembling of poly(aspartic acid) with bovine serum albumin in aqueous solutions. International Journal of Biological Macromolecules, 2017, 95, 412-420.	3.6	22
21	Sol Gel Method Performed for Biomedical Products Implementation. Mini-Reviews in Medicinal Chemistry, 2010, 10, 990-1013.	1.1	22
22	An analysis of the complexation between poly(aspartic acid) and poly(ethylene glycol). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 348, 254-262.	2.3	21
23	Current Concepts on Cardiovascular Stent Devices. Mini-Reviews in Medicinal Chemistry, 2014, 14, 505-536.	1.1	20
24	Polymerization in a magnetic field. X. Solvent effect in poly(methyl methacrylate) synthesis. Journal of Polymer Science Part A, 1996, 34, 567-573.	2.5	19
25	Polymerization in a magnetic field: 1. Influence of esteric chain length on the synthesis of various poly(methacrylate)s. Polymer, 1993, 34, 3917-3920.	1.8	18
26	Polymerization in magnetic field. XVI. Kinetic aspects regarding methyl methacrylate polymerization in high magnetic field. Journal of Polymer Science Part A, 2004, 42, 5678-5686.	2.5	18
27	High conversion synthesis of poly(methyl methacrylate). Polymer Bulletin, 1991, 27, 31-36.	1.7	17
28	Chitosan Derivatives in Macromolecular Co-assembly Nanogels with Potential for Biomedical Applications. Biomacromolecules, 2020, 21, 4231-4243.	2.6	17
29	Interpenetrating polymer network systems based on poly(dimethylaminoethyl methacrylate) and a copolymer containing pendant spiroacetal moieties. Materials Science and Engineering C, 2018, 87, 22-31.	3.8	16
30	New self-healing hydrogels based on reversible physical interactions and their potential applications. European Polymer Journal, 2019, 118, 176-185.	2.6	16
31	Synthesis of Poly(Ethylene Brassylate-Co-squaric Acid) as Potential Essential Oil Carrier. Pharmaceutics, 2021, 13, 477.	2.0	16
32	Nanostructured hyaluronic acid-based hydrogels encapsulating synthetic/ natural hybrid nanogels as promising wound dressings. Biochemical Engineering Journal, 2022, 179, 108341.	1.8	16
33	An investigation of the grafting of cellulose powder with acrylamide under a magnetic field. Angewandte Makromolekulare Chemie, 1997, 246, 1-9.	0.3	15
34	In situ monitoring the solâ€“gel transition for polyacrylamide gel. Rheologica Acta, 2007, 46, 595-600.	1.1	15
35	Poly(vinyl alcohol-co-lactic acid)/Hydroxyapatite Composites: Synthesis and Characterization. Journal of Polymers and the Environment, 2011, 19, 546-558.	2.4	15
36	Semiâ€interpenetrated network with improved sensitivity based on poly(Nâ€isopropylacrylamide) and poly(aspartic acid). Polymer Engineering and Science, 2013, 53, 2345-2352.	1.5	15

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37	Biocompatibility, biodegradability, and drug carrier ability of hybrid collagen-based hydrogel nanocomposites. Journal of Bioactive and Compatible Polymers, 2013, 28, 540-556.	0.8	15
38	Design and synthesis of a new polymer network containing pendant spiroacetal moieties. Designed Monomers and Polymers, 2015, 18, 780-788.	0.7	15
39	Influence of a magnetic field on radicalic polymerization of butyl methacrylate. Colloid and Polymer Science, 1992, 270, 753-758.	1.0	14
40	Studies on the nanocomposites based on carboxymethyl starch-g-lactic acid-co-glycolic acid copolymer and magnetite. Journal of Thermal Analysis and Calorimetry, 2018, 131, 1867-1880.	2.0	14
41	Study of a binary interpenetrated polymeric complex by correlation of rheological parameters with zeta potential and conductivity. Colloids and Surfaces B: Biointerfaces, 2010, 76, 70-75.	2.5	13
42	Semi-interpenetrated polymer networks of hyaluronic acid modified with poly(aspartic acid). Journal of Polymer Research, 2013, 20, 1.	1.2	13
43	New nanocomposite based on poly(lactic-co-glycolic acid) copolymer and magnetite. Synthesis and characterization. Composites Part B: Engineering, 2015, 72, 150-159.	5.9	13
44	Hybrid gels by conjugation of hyaluronic acid with poly(itaconic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (anhydride-co-3,9-divinyl-2 Biological Macromolecules, 2017, 98, 407-418.	3.6	13
45	Polymerisation in a magnetic field. Polymer Testing, 2000, 19, 405-413.	2.3	12
46	Polymerization in a magnetic field. 14. Possibilities to improve field effect during methyl acrylate polymerization. Journal of Applied Polymer Science, 2004, 92, 1031-1036.	1.3	12
47	Polymerization in magnetic field: XVIII. Influence of surfactant nature on the synthesis and thermal properties of poly(methyl methacrylate) and poly[(methyl methacrylate)â€coâ€(epoxypropyl) Tj ETQq1 1 0.784314 rgBT /Over	1.8	12
48	Contribution to polymer nanoparticles analysis by laser light scattering. Polymer Testing, 2009, 28, 886-890.	2.3	12
49	Nano-network with dual temperature and pH responsiveness based on copolymers of 2-hydroxyethyl methacrylate with 3,9-divinyl-2,4,8,10-tetraoxaspiro[5.5]-undecane. Journal of Nanoparticle Research, 2011, 13, 6953-6962.	0.8	12
50	Copolymerization of 2â€hydroxyethyl methacrylate with a comonomer with spiroacetal moiety. Journal of Polymer Science Part A, 2011, 49, 1543-1551.	2.5	12
51	A study on the composites based on poly(succinimide)-b-poly(ethylene glycol) and ferrite and their magnetic response. Composites Part B: Engineering, 2011, 42, 1525-1531.	5.9	12
52	Cross-Linking Structural Effect of Hydrogel Based on 2-Hydroxyethyl Methacrylate. Industrial & Engineering Chemistry Research, 2012, 51, 7769-7776.	1.8	12
53	Title is missing!. Die Makromolekulare Chemie Rapid Communications, 1989, 10, 601-606.	1.1	11
54	Aspects concerning the temperature influence on the polymer/polymer interactions between poly(aspartic acid) and poly(ethylene glycol). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 374, 121-128.	2.3	11

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55	Upon the characterization of semi-synthetic hydrogels based on poly (NIPAM) inserted onto collagen sponge. Composites Part B: Engineering, 2012, 43, 1508-1515.	5.9	11
56	Multilayered structure based on poly(N,N-dimethyl-acrylamide-co-3,9-divinyl-2,4,8,10-tetraoxaspiro (5.5)) Tj ETQq0 0 0 rgBT /Overlock 10 456, 21-30.	2.6	11
57	Effect of pH and temperature upon self-assembling process between poly(aspartic acid) and Pluronic F127. Colloids and Surfaces B: Biointerfaces, 2014, 119, 47-54.	2.5	11
58	Investigation of the magnetic field effect upon interpolymeric complexes formation based on bovine serum albumin and poly(aspartic acid). International Journal of Biological Macromolecules, 2018, 119, 974-981.	3.6	11
59	Self-Assembled Nanocarriers Based on Modified Chitosan for Biomedical Applications: Preparation and Characterization. Polymers, 2020, 12, 2593.	2.0	11
60	Polymerization in a magnetic field. XV Some azo-initiators behavior in a high magnetic field. Journal of Applied Polymer Science, 2005, 98, 1025-1031.	1.3	10
61	Polymerization in a magnetic field, part 17: Styrene copolymerization with 2,3-epoxypropyl methacrylate. Journal of Applied Polymer Science, 2007, 104, 3029-3035.	1.3	10
62	An inÂvitro release study of indomethacin from nanoparticles based on methyl methacrylate/glycidyl methacrylate copolymers. Journal of Materials Science: Materials in Medicine, 2010, 21, 3129-3140.	1.7	10
63	Upon the emulsion polymerization of 2-hydroxyethyl methacrylate with 3,9-divinyl-2,4,8,10-tetraoxaspiro[5.5]-undecane. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 381, 111-117.	2.3	10
64	Upon synthesis of a polymeric matrix with pH and temperature responsiveness and antioxidant bioactivity based on poly(maleic anhydride-co-3,9-divinyl-2,4,8,10-tetraoxaspiro [5.5] undecane) derivatives. Materials Science and Engineering C, 2015, 50, 348-357.	3.8	10
65	Nanogels Containing Polysaccharides for Bioapplications. , 2019, , 387-420.		10
66	Functionalized magnetic composites based on block copolymers poly(succinimide)-b-poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 926-932.	5.9	9
67	Static and dynamic investigations of poly(aspartic acid) and Pluronic F127 complex prepared by self-assembling in aqueous solution. Applied Surface Science, 2015, 359, 486-495.	3.1	9
68	Tailorable polyelectrolyte protein complex based on poly(aspartic acid) and bovine serum albumin. Designed Monomers and Polymers, 2016, 19, 596-606.	0.7	9
69	Poly(ethylene glycol) functionalized by polycondensing procedure with poly(succinimide). Polimery, 2010, 55, 641-645.	0.4	8
70	New Physical Hydrogels Based on Co-Assembling of FMOCâ€“Amino Acids. Gels, 2021, 7, 208.	2.1	8
71	Development of a new polymer network system carrier of essential oils. Biomedicine and Pharmacotherapy, 2022, 149, 112919.	2.5	8
72	Aspects regarding the characteristics of some acrylic and methacrylic polyesters synthesized in a magnetic field. Polymer Testing, 1996, 15, 537-548.	2.3	7

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73	Some properties of vinyl acetate/methyl methacrylate/acrylamide copolymer synthesized in a magnetic field. Polymer Testing, 1997, 16, 185-192.	2.3	7
74	Effect of emulsion polymerization and magnetic field on the adsorption of albumin on poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2443-2452.	1.7	7
75	Indomethacin uptake into poly(2-hydroxyethyl methacrylate-co-3,9-divinyl-2,4,8,10-tetraoxaspiro) Tj ETQq1 1 0.784314 rgBT /Overlock Pharmaceutics, 2012, 426, 90-99.	2.6	7
76	A combined NIR-CI, SEM, ESEM and X-ray nondestructive examination for the characterization of composite polymeric surfaces. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	7
77	Multifunctional BSA Scaffolds Prepared with a Novel Combination of UVâ€Crosslinking Systems. Macromolecular Chemistry and Physics, 2019, 220, 1900378.	1.1	7
78	Magnetic composites obtainment based on styrene polymers. Journal of Applied Polymer Science, 2006, 100, 4133-4141.	1.3	6
79	Upon some multi-membrane hydrogels based on poly(N,N-dimethyl-acrylamide-co-3,9-divinyl-2,4,8,10-tetraoxaspiro (5.5) Undecane): preparation, characterization and in vivo tests. Journal of Materials Science: Materials in Medicine, 2014, 25, 1757-1768.	1.7	6
80	The influence of excipients on physical and pharmaceutical properties of oral lyophilisates containing a pregabalin-acetaminophen combination. Expert Opinion on Drug Delivery, 2017, 14, 589-599.	2.4	6
81	Multifunctional hybrid 3D network based on hyaluronic acid and a copolymer containing pendant spiroacetal moieties. International Journal of Biological Macromolecules, 2019, 125, 191-202.	3.6	6
82	Comparative study on the properties of a bio-based copolymacrolactone system. Polymer Testing, 2022, 109, 107555.	2.3	6
83	New Cryogels Based on Poly(vinyl alcohol) and a Copolymacrolactone System: I-Synthesis and Characterization. Nanomaterials, 2022, 12, 2420.	1.9	6
84	Some properties in solution of poly(acrylamide) synthesized in a magnetic field. Polymer Testing, 2001, 20, 585-589.	2.3	5
85	Synthesis and Thermal Analysis of a Magnetic Composite by Thermogravimetry Coupled to Fourier Transform Infrared Spectroscopy and Mass Spectrometry. Industrial & Engineering Chemistry Research, 2012, 51, 335-344.	1.8	5
86	Patterning poly(maleic anhydride-co-3,9-divinyl-2,4,8,10-tetraoxaspiro (5.5) undecane) copolymer bioconjugates for controlled release of drugs. International Journal of Pharmaceutics, 2015, 493, 328-340.	2.6	5
87	New Hydrogel Network Based on Alginate and a Spiroacetal Copolymer. Gels, 2021, 7, 241.	2.1	5
88	Synthesis and Comparative Studies of Glucose Oxidase Immobilized on Fe3O4 Magnetic Nanoparticles Using Different Coupling Agents. Nanomaterials, 2022, 12, 2445.	1.9	5
89	Aspects regarding the grafting of some lignosulfonates with acrylamide under a magnetic field. Angewandte Makromolekulare Chemie, 1999, 273, 75-85.	0.3	4
90	Nanocomposites Based on Montmorillonite/Acrylic Copolymer for Aqueous Coating of Soft Surfaces. Solid State Phenomena, 0, 151, 129-134.	0.3	4

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91	Indomethacinâ€loaded polymer nanocarriers based on poly(2â€hydroxyethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 vitro and in vivo evaluation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 1121-1133.	1.6	4
92	Evaluation of the controlled release ability from the poly(2-hydroxyethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (methacrylate-co- presence of Î²-cyclodextrin. Journal of Materials Science: Materials in Medicine, 2012, 23, 1211-1223.	1.7	4
93	Obtaining of new magnetic nanocomposites based on modified polysaccharide. Carbohydrate Polymers, 2013, 98, 451-459.	5.1	4
94	Investigation on thermal, rheological, dielectric and spectroscopic properties of a polymer containing pendant spiroacetal moieties. Materials Chemistry and Physics, 2016, 180, 291-300.	2.0	4
95	Acrylovinylic macromolecular compounds with adhesive properties. Polymer Testing, 1999, 18, 415-427.	2.3	3
96	Possibilities of collagen adsorption on some polymeric matrices based on styrene copolymers. Journal of Applied Polymer Science, 2006, 100, 3554-3561.	1.3	3
97	Magnetic composite based on vinylic template. Journal of Applied Polymer Science, 2008, 108, 3690-3695.	1.3	3
98	Upon a magnetic composite preparation based on magnetite and poly(succinimide)-b-poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.1	3
99	The Temperature Influence upon the Complexation Process between Poly(aspartic acid) and Poly(ethylene glycol). Industrial & Engineering Chemistry Research, 2011, 50, 5369-5375.	1.8	3
100	The magnetic field effect during preparation of an interpenetrated hybrid polymeric composite. Polymer Composites, 2012, 33, 1816-1823.	2.3	3
101	Semi-imprinting Quercetin into Poly[N,N-Dimethylacrylamide-co-3, 9-divinyl-2, 4, 8, 10-Tetraoxaspiro (5.5) Undecane] Network: Evaluation of the Antioxidant Character. Journal of Pharmaceutical Sciences, 2014, 103, 2338-2346.	1.6	3
102	In situ preparation of a magnetic composite during functionalization of poly[maleic anhydride-co-3,9-divinyl-2,4,8,10-tetraoxaspiro(5.5)undecane] with erythritol. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	3
103	Magnetic Polymeric Nanocomposites. , 2019, , 359-386.		3
104	Alginate enriched with phytic acid for hydrogels preparation. Therapeutic applications. International Journal of Biological Macromolecules, 2021, 189, 335-345.	3.6	3
105	Biodegradable copolymers with succinimide and lactic acid units. Part I. Synthesis possibilities. Polimery, 2011, 56, 204-210.	0.4	3
106	Aging Study of Gold Nanoparticles Functionalized with Chitosan in Aqueous Solutions. Revista De Chimie (discontinued), 2017, 68, 2385-2388.	0.2	3
107	Using Riboflavin as Low Molecular Mass Gelator for the Preparation of a New Network Structure Having Spiroacetal Moieties. Journal of Research Updates in Polymer Science, 2017, 6, 134-141.	0.3	3
108	Functional and structural analysis of a network containing a polymer structure with spiroacetal moieties and riboflavin as low molecular mass gelator. Materials Chemistry and Physics, 2018, 217, 242-253.	2.0	2

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109	The improvement of adhesive character of an acrylovinylic macromolecular compound. Polymer Testing, 2001, 20, 873-877.	2.3	1
110	Evaluation of the Complexation Process Between Poly(Aspartic Acid) and Poly(Ethylene Glycol) Through Dynamic Rheology and Electrokinetic Potential. Journal of Macromolecular Science - Physics, 2012, 51, 288-297.	0.4	1
111	Self-linked polymer gels [based on hyaluronic acid and poly (itaconic anhydride-co-3, 9-divinyl-2, 4, 8,) Tj ETQq1 1 0.784314 rgBT /Ove		1
112	Possibilities of quercetin insertion into poly(N,N-dimethylacrylamide-co-3, 9-divinyl-2, 4, 8,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td	3.8	1
113	Magnetic composites based on bovine serum albumin and poly(aspartic acid). Polymer Engineering and Science, 2019, 59, 1409-1415.	1.5	1
114	Polymeric Nanogels with Applicability in the Biomedical Field. Recent Patents on Materials Science, 2018, 10, 97-102.	0.5	1
115	Using Cholesterol as Low Molecular Mass Gelator for a New Nanogel Preparation. Current Applied Polymer Science, 2018, 2, 37-43.	0.2	1
116	Functionalized superparamagnetic nanoparticles as versatile carriers for targeted antioxidant enzyme therapy. , 2013, , .		0
117	New Polymeric Particles Loaded With Sea Buckthorn Essential Oil. , 2021, , .		0