Zdenka Sedlakova

List of Publications by Year
in descending order

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79	1,538	304743	330143
papers	citations	22 h-index	37 g-index

79	79	79	2020
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interaction of Blood Plasma with Antifouling Surfaces. Langmuir, 2009, 25, 6328-6333.	3.5	242
2	Preparation of layered double hydroxides intercalated with organic anions and their application in LDH/poly(butyl methacrylate) nanocomposites. Applied Clay Science, 2010, 48, 260-270.	5.2	99
3	Temperature-induced phase separation and hydration in poly(N-vinylcaprolactam) aqueous solutions: a study by NMR and IR spectroscopy, SAXS, and quantum-chemical calculations. Soft Matter, 2012, 8, 6110.	2.7	84
4	Solvent extraction of microamounts of strontium and barium into nitrobenzene using hydrogen dicarbollylcobaltate in the presence of polyethylene glycol PEG 600. Journal of Radioanalytical and Nuclear Chemistry, 2009, 280, 607-611.	1.5	62
5	SET-LRP of N-(2-hydroxypropyl)methacrylamide in H2O. Polymer Chemistry, 2013, 4, 2424.	3.9	62
6	Polymer Brushes Interfacing Blood as a Route Toward High Performance Blood Contacting Devices. Macromolecular Bioscience, 2015, 15, 636-646.	4.1	56
7	Purification of the specific immunoglobulin G1 by immobilized metal ion affinity chromatography using nickel complexes of chelating porous and nonporous polymeric sorbents based on poly(methacrylic esters). Journal of Chromatography A, 2002, 954, 115-126.	3.7	55
8	Gas barrier properties of nanocomposites based on in situ polymerized poly(n-butyl methacrylate) in the presence of surface modified montmorillonite. Journal of Membrane Science, 2010, 349, 251-257.	8.2	53
9	Low Temperature Aqueous Living/Controlled (RAFT) Polymerization of Carboxybetaine Methacrylamide up to High Molecular Weights. Macromolecular Rapid Communications, 2011, 32, 958-965.	3.9	52
10	Extraction of europium and cerium into nitrobenzene using synergistic mixture of hydrogen dicarbollylcobaltate and polyethylene glycol PEG 600. Journal of Radioanalytical and Nuclear Chemistry, 2010, 283, 157-161.	1.5	49
11	Structure of montmorillonite cointercalated with stearic acid and octadecylamine: Modeling, diffraction, IR spectroscopy. Journal of Colloid and Interface Science, 2006, 300, 264-269.	9.4	42
12	Polymer-clay nanocomposites prepared via in situ emulsion polymerization. Polymer Bulletin, 2009, 63, 365-384.	3.3	42
13	Gas transport properties of polyacrylate/clay nanocomposites prepared via emulsion polymerization. Journal of Membrane Science, 2010, 363, 48-56.	8.2	38
14	Grafting of functional methacrylate polymer brushes by photoinduced SET-LRP. Polymer Chemistry, 2016, 7, 6934-6945.	3.9	34
15	Efficient holographic recording in novel azo-containing polymer. Optical Materials, 2007, 29, 1756-1762.	3.6	32
16	1H NMR study of temperature-induced phase separation in solutions of poly(N-isopropylmethacrylamide-co-acrylamide) copolymers. European Polymer Journal, 2010, 46, 1299-1306.	5.4	29
17	Suppressing Pseudomonas aeruginosa adhesion via non-fouling polymer brushes. RSC Advances, 2014, 4, 64781-64790.	3.6	28
18	Temperature-induced phase transition in hydrogels of interpenetrating networks of poly(N-isopropylacrylamide) and polyacrylamide. European Polymer Journal, 2015, 68, 68-79.	5.4	28

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19	â€œClickableâ€•and Antifouling Block Copolymer Brushes as a Versatile Platform for Peptideâ€Specific Cell Attachment. Macromolecular Bioscience, 2020, 20, e1900354.	4.1	27
20	Photoorientation of azobenzene side groups in a liquid-crystalline polybutadiene-based polymer. Optical Materials, 2008, 30, 1335-1342.	3.6	22
21	Liquid crystalline polybutadiene diols with chiral thiol side-chain units. European Polymer Journal, 2008, 44, 233-243.	5.4	22
22	Structures and interactions in collapsed hydrogels of thermoresponsive interpenetrating polymer networks. Colloid and Polymer Science, 2015, 293, 709-720.	2.1	22
23	Phthalocyanineâ€Conjugated Upconversion NaYF‹sub›4‹/sub›:Yb‹sup›3+‹/sup›/Er‹sup›3+‹/sup›@SiO‹sub›2‹/sub› Nanospheres for NIRâ€Triggered Photodynamic Therapy in a Tumor Mouse Model. ChemMedChem, 2017, 12, 2066-2073.	3.2	21
24	Phase transition in swollen gels. 21. Effect of acrylamide quaternary salts with various alkyl lengths on the collapse, mechanical, and SAXS behavior of poly(acrylamide) networks. Macromolecules, 1995, 28, 6835-6842.	4.8	20
25	Gas sorption properties of zwitterion-functionalized carbon nanotubes. Journal of Membrane Science, 2013, 429, 88-94.	8.2	20
26	Phase transition in swollen gels : Part 32. Temperature transition in charged poly(N-isopropylmethacrylamide) hydrogels in water and aqueous NaCl solutions. Physical Chemistry Chemical Physics, 2002, 4, 4360-4367.	2.8	18
27	Phase transition in hydrogels of thermoresponsive semi-interpenetrating and interpenetrating networks of poly(N,N-diethylacrylamide) and polyacrylamide. European Polymer Journal, 2016, 85, 1-13.	5.4	17
28	Swelling and mechanical behavior of charged poly(N-isopropylmethacrylamide) and poly(N-isopropylacrylamide) networks in water/ethanol mixtures. Cononsolvency effect. Polymer Bulletin, 2007, 58, 191-199.	3.3	16
29	Temperature-induced phase transition in hydrogels of interpenetrating networks poly(N-isopropylmethacrylamide)/poly(N-isopropylacrylamide). Colloid and Polymer Science, 2013, 291, 2409-2417.	2.1	15
30	Phase transition in swollen gels. Polymer Bulletin, 2001, 46, 99-106.	3.3	13
31	Ion vs. ion pair receptor: NMR and DFT study of the interaction of Thallium and Cesium ions and ion pairs with meso-octamethylcalix[4]pyrrole. Chemical Physics, 2012, 400, 19-28.	1.9	13
32	Phase transition in swollen gels. Polymer Bulletin, 2001, 47, 367-374.	3.3	11
33	Formation, structure, thermal and dynamic mechanical behaviour of ordered polyurethane networks based on mesogenic diol. European Polymer Journal, 2001, 37, 1511-1517.	5.4	9
34	Hydrogen bonding interactions of styrene-maleimide copolymers with diaminotriazine derivatives. Journal of Applied Polymer Science, 2006, 101, 2338-2346.	2.6	9
35	Solvent extraction of europium trifluoromethanesulfonate into nitrobenzene by using some electroneutral macrocyclic lactam receptors. Journal of Radioanalytical and Nuclear Chemistry, 2012, 293, 699-702.	1.5	9
36	Dynamic surface properties of poly(methylalkyldiallylammonium chloride) solutions. Journal of the Taiwan Institute of Chemical Engineers, 2017, 80, 122-127.	5.3	9

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37	Phase transition in swollen gels 24. Polymer Gels and Networks, 1998, 6, 163-178.	0.6	8
38	Phase transition in swollen gels: 25. Effect of the anionic comonomer concentration on the first-order phase transition of poly(1-vinyl-2-pyrrolidone) hydrogels. European Polymer Journal, 1999, 35, 451-459.	5.4	8
39	SHARP hydrogel for the treatment of inflammatory bowel disease. International Journal of Pharmaceutics, 2022, 613, 121392.	5.2	8
40	Thermal and dynamic mechanical behavior of polyurethanes based on diisocyanates and diethanolamine derivatives with mesogenic groups in side chain. European Polymer Journal, 2003, 39, 437-448.	5.4	7
41	New Chiral Thiols and Related Side Chain Liquid Crystalline Polymers. Molecular Crystals and Liquid Crystals, 2007, 465, 93-107.	0.9	7
42	Chiral liquid crystalline thiols for preparation of polybutadiene diols. Liquid Crystals, 2008, 35, 653-660.	2.2	7
43	Hydrophilic Interpolymer Associates as a Satellite Product of Reactions of Formation of Interpolymer Complexes. Applied Mechanics and Materials, 0, 467, 58-63.	0.2	7
44	Antioxidant Properties of 2-Hydroxyethyl Methacrylate-Based Copolymers with Incorporated Sterically Hindered Amine. Biomacromolecules, 2015, 16, 2726-2734.	5.4	7
45	Poly(meth)acrylate nanocomposite membranes containing in situ exfoliated graphene platelets: Synthesis, characterization and gas barrier properties. European Polymer Journal, 2017, 94, 431-445.	5.4	7
46	Phase Transition in Swollen Gels XXVIII. Swelling and Mechanical Behavior of Poly(1-vinyl-2-pyrrolidone-co-N-vinylcaprolactam) Gels in Water/Acetone Mixtures. Polymer Journal, 2001, 33, 214-220.	2.7	6
47	Dynamics of photoinduced motions in azobenzene grafted polybutadienes. Optical Materials, 2011, 33, 1398-1404.	3.6	6
48	Phase transition in swollen gels. Polymer Bulletin, 1994, 32, 331-338.	3.3	5
49	Dielectric and thermal behavior of liquid crystalline comb-like polybutadiene-diols with mesogenic groups in side chains. Polymer, 2007, 48, 5721-5733.	3.8	5
50	Phase transition in swollen gels. Polymer Bulletin, 1992, 27, 577-583.	3.3	4
51	Phase transition in swollen gels. Polymer Bulletin, 1993, 30, 339-346.	3.3	4
52	Surface-Deposited Acid/Base on Glass Microfibers in Formation of (3-Aminopropyl)triethoxysilane-[2-(3,4-epoxycyclohexyl)ethyl]heptaisobutyl- octasilsesquioxane Bioverlay. Langmuir, 2006, 22, 3633-3639.	3.5	4
53	Dynamic mechanical and thermal behavior of liquid-crystalline polybutadiene-diols with mesogenic groups in side chains. European Polymer Journal, 2006, 42, 2450-2457.	5.4	4
54	Grafted polybutadiene for fast retrieval of optical information. Journal of Applied Physics, 2009, 106, 053108.	2.5	4

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55	(Meth)acrylate liquid crystalline polymers for membrane applications. Journal of Applied Polymer Science, 2015, 132, .	2.6	4
56	Formation, structure and physical properties of ordered polyurethane networks. Macromolecular Symposia, 2001, 171, 105-114.	0.7	3
57	Synthesis and thermal behavior of telechelic poly(butadiene)diols with azobenzene-based liquid-crystalline units in side chains. Polymer Bulletin, 2010, 64, 315-326.	3.3	3
58	Mesogenic polybutadiene diols with thiol side-chain units: synthesis and thermal behaviour. Phase Transitions, 2010, 83, 16-27.	1.3	3
59	NMR, FTIR and DFT study of the interaction of the benzoate anion with meso-octamethylcalix[4]pyrrole. Chemical Physics Letters, 2013, 561-562, 42-45.	2.6	3
60	Experimental and DFT study on complexation of Eu3+ with a macrocyclic lactam receptor. Structural Chemistry, 2013, 24, 2149-2153.	2.0	3
61	Sorption of enantiomers and alcohols into NafionÂ® and the role of air humidity in the experimental data evaluation. Separation and Purification Technology, 2015, 144, 232-239.	7.9	3
62	Nanocomposite preparation via in situ polymerization of quaternary ammonium salt ion-bonded to graphite platelets. RSC Advances, 2016, 6, 353-357.	3.6	3
63	NMR and AM1 Quantum Chemical Study of the Regioselectivity of the Reaction of 2-Hydroxyethyl Methacrylate with 3-Nitrophthalic Anhydride. Collection of Czechoslovak Chemical Communications, 1997, 62, 69-82.	1.0	3
64	Title is missing!. Angewandte Makromolekulare Chemie, 1992, 201, 33-48.	0.2	2
65	Dynamic Mechanical Behavior of Ordered Off-Stoichiometric Polyurethane Systems at the Gel Point Threshold. Journal of Macromolecular Science - Physics, 2000, 39, 605-622.	1.0	2
66	Photochromic liquid crystalline structures containing azobenzene moieties. Macromolecular Symposia, 2004, 212, 399-406.	0.7	2
67	SANS Study of Coated Block Copolymer Micelles. Macromolecular Chemistry and Physics, 2005, 206, 1206-1215.	2.2	2
68	Thermal and Dielectric Behavior of Liquid-Crystalline Polybutadiene-Diols with Mesogenic Groups in Side Chains. AIP Conference Proceedings, 2008, , .	0.4	2
69	Dynamic mechanical and thermal behavior of novel liquid-crystalline polybutadiene-diols with azobenzene groups in side chains. Journal of Rheology, 2013, 57, 1297-1310.	2.6	2
70	Complexation of Eu3+ with a macrocyclic lactam receptor: Experimental and theoretical study. Journal of Molecular Structure, 2013, 1038, 216-219.	3.6	2
71	Temperature-Dependent Gas Transport Behavior in Cross-Linked Liquid Crystalline Polyacrylate Membranes. Membranes, 2019, 9, 104.	3.0	2
72	Dynamic mechanical study of the transition from swollen particles to hydrogel caused by neutralization. Polymer Bulletin, 2000, 44, 585-592.	3.3	1

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73	Dynamic mechanical and thermal behavior of thermotropic polyesters based on 4,4â€²-alkane-1-ï‰-diylbis(4-hydroxybenzoic acid) and 4,4â€²-(pentane-1,5-diyloxy)dibenzoic acid. European Polymer Journal, 2002, 38, 2333-2341.	5.4	1
74	Formation, structure, thermal and dynamic mechanical behavior of polyurethane networks based on a diethanolamine derivative with mesogenic group. European Polymer Journal, 2003, 39, 1521-1531.	5.4	1
75	Chemical Clusters in Polyurethane Networks. SAXS, Photoelastic and Dynamic Mechanical Behavior of Networks from Poly(Oxypropylene)Diol, Diisocyanate, and Trimethylolpropane Prepared Oneâ€Stage and Twoâ€Stage Process. Journal of Macromolecular Science - Physics, 2005, 44, 909-923.	1.0	1
76	Thermal, Dynamic Mechanical and Dielectric Behavior of Liquid-Crystalline Linear and Crosslinked Polyurethanes with Mesogenic Group in Side Chains. Materials Science Forum, 2006, 518, 367-374.	0.3	1
77	Synergistic extraction of some divalent metal cations into nitrobenzene by using strontium dicarbollylcobaltate and electroneutral macrocyclic lactam receptor. Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 2263-2266.	1.5	1
78	2-(2-Methoxyphenyl)-1-benzofuran. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o1427-o1427.	0.2	0
79	Use of Non-linear Properties of Stimuli-sensitive Polymers in Image Display Systems. AASRI Procedia, 2012, 3, 528-533.	0.6	0