

# Zdenka Sedlakova

## List of Publications by Year in descending order

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docs citations

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#	ARTICLE	IF	CITATIONS
1	SHARP hydrogel for the treatment of inflammatory bowel disease. International Journal of Pharmaceutics, 2022, 613, 121392.	5.2	8
2	“Clickable” and Antifouling Block Copolymer Brushes as a Versatile Platform for Peptide-Specific Cell Attachment. Macromolecular Bioscience, 2020, 20, e1900354.	4.1	27
3	Temperature-Dependent Gas Transport Behavior in Cross-Linked Liquid Crystalline Polyacrylate Membranes. Membranes, 2019, 9, 104.	3.0	2
4	Dynamic surface properties of poly(methylalkyldiallylammonium chloride) solutions. Journal of the Taiwan Institute of Chemical Engineers, 2017, 80, 122-127.	5.3	9
5	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
6	Phthalocyanine-Conjugated Upconversion NaYF <sub>4</sub> :Yb <sup>3+</sup> /Er <sup>3+</sup> @SiO <sub>2</sub> Nanospheres for NIR-Triggered Photodynamic Therapy in a Tumor Mouse Model. ChemMedChem, 2017, 12, 2066-2073.	3.2	21
7	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
8	Grafting of functional methacrylate polymer brushes by photoinduced SET-LRP. Polymer Chemistry, 2016, 7, 6934-6945.	3.9	34
9	Nanocomposite preparation via in situ polymerization of quaternary ammonium salt ion-bonded to graphite platelets. RSC Advances, 2016, 6, 353-357.	3.6	3
10	(Meth)acrylate liquid crystalline polymers for membrane applications. Journal of Applied Polymer Science, 2015, 132, .	2.6	4
11	Polymer Brushes Interfacing Blood as a Route Toward High Performance Blood Contacting Devices. Macromolecular Bioscience, 2015, 15, 636-646.	4.1	56
12	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
13	Sorption of enantiomers and alcohols into Nafion® and the role of air humidity in the experimental data evaluation. Separation and Purification Technology, 2015, 144, 232-239.	7.9	3
14	Structures and interactions in collapsed hydrogels of thermoresponsive interpenetrating polymer networks. Colloid and Polymer Science, 2015, 293, 709-720.	2.1	22
15	Antioxidant Properties of 2-Hydroxyethyl Methacrylate-Based Copolymers with Incorporated Sterically Hindered Amine. Biomacromolecules, 2015, 16, 2726-2734.	5.4	7
16	Suppressing Pseudomonas aeruginosa adhesion via non-fouling polymer brushes. RSC Advances, 2014, 4, 64781-64790.	3.6	28
17	Synergistic extraction of some divalent metal cations into nitrobenzene by using strontium dicarbollycobaltate and electroneutral macrocyclic lactam receptor. Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 2263-2266.	1.5	1
18	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

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19	Complexation of Eu <sup>3+</sup> with a macrocyclic lactam receptor: Experimental and theoretical study. <i>Journal of Molecular Structure</i> , 2013, 1038, 216-219.	3.6	2
20	Temperature-induced phase transition in hydrogels of interpenetrating networks poly(N-isopropylmethacrylamide)/poly(N-isopropylacrylamide). <i>Colloid and Polymer Science</i> , 2013, 291, 2409-2417.	2.1	15
21	Gas sorption properties of zwitterion-functionalized carbon nanotubes. <i>Journal of Membrane Science</i> , 2013, 429, 88-94.	8.2	20
22	NMR, FTIR and DFT study of the interaction of the benzoate anion with meso-octamethylcalix[4]pyrrole. <i>Chemical Physics Letters</i> , 2013, 561-562, 42-45.	2.6	3
23	Experimental and DFT study on complexation of Eu <sup>3+</sup> with a macrocyclic lactam receptor. <i>Structural Chemistry</i> , 2013, 24, 2149-2153.	2.0	3
24	SET-LRP of N-(2-hydroxypropyl)methacrylamide in H <sub>2</sub> O. <i>Polymer Chemistry</i> , 2013, 4, 2424.	3.9	62
25	Use of Non-linear Properties of Stimuli-sensitive Polymers in Image Display Systems. <i>AASRI Procedia</i> , 2012, 3, 528-533.	0.6	0
26	Temperature-induced phase separation and hydration in poly(N-vinylcaprolactam) aqueous solutions: a study by NMR and IR spectroscopy, SAXS, and quantum-chemical calculations. <i>Soft Matter</i> , 2012, 8, 6110.	2.7	84
27	Solvent extraction of europium trifluoromethanesulfonate into nitrobenzene by using some electroneutral macrocyclic lactam receptors. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012, 293, 699-702.	1.5	9
28	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. <i>Chemical Physics</i> , 2012, 400, 19-28.	1.9	13
29	Low Temperature Aqueous Living/Controlled (RAFT) Polymerization of Carboxybetaine Methacrylamide up to High Molecular Weights. <i>Macromolecular Rapid Communications</i> , 2011, 32, 958-965.	3.9	52
30	Dynamics of photoinduced motions in azobenzene grafted polybutadienes. <i>Optical Materials</i> , 2011, 33, 1398-1404.	3.6	6
31	2-(2-Methoxyphenyl)-1-benzofuran. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o1427-o1427.	0.2	0
32	Synthesis and thermal behavior of telechelic poly(butadiene)diols with azobenzene-based liquid-crystalline units in side chains. <i>Polymer Bulletin</i> , 2010, 64, 315-326.	3.3	3
33	Extraction of europium and cerium into nitrobenzene using synergistic mixture of hydrogen dicarbollylcobaltate and polyethylene glycol PEG 600. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2010, 283, 157-161.	1.5	49
34	Gas barrier properties of nanocomposites based on in situ polymerized poly(n-butyl methacrylate) in the presence of surface modified montmorillonite. <i>Journal of Membrane Science</i> , 2010, 349, 251-257.	8.2	53
35	Gas transport properties of polyacrylate/clay nanocomposites prepared via emulsion polymerization. <i>Journal of Membrane Science</i> , 2010, 363, 48-56.	8.2	38
36	<sup>1</sup> H NMR study of temperature-induced phase separation in solutions of poly(N-isopropylmethacrylamide-co-acrylamide) copolymers. <i>European Polymer Journal</i> , 2010, 46, 1299-1306.	5.4	29

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37	Mesogenic polybutadiene diols with thiol side-chain units: synthesis and thermal behaviour. <i>Phase Transitions</i> , 2010, 83, 16-27.	1.3	3
38	Preparation of layered double hydroxides intercalated with organic anions and their application in LDH/poly(butyl methacrylate) nanocomposites. <i>Applied Clay Science</i> , 2010, 48, 260-270.	5.2	99
39	Grafted polybutadiene for fast retrieval of optical information. <i>Journal of Applied Physics</i> , 2009, 106, 053108.	2.5	4
40	Solvent extraction of microamounts of strontium and barium into nitrobenzene using hydrogen dicarbollylcobaltate in the presence of polyethylene glycol PEG 600. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2009, 280, 607-611.	1.5	62
41	Polymer-clay nanocomposites prepared via in situ emulsion polymerization. <i>Polymer Bulletin</i> , 2009, 63, 365-384.	3.3	42
42	Interaction of Blood Plasma with Antifouling Surfaces. <i>Langmuir</i> , 2009, 25, 6328-6333.	3.5	242
43	Photoorientation of azobenzene side groups in a liquid-crystalline polybutadiene-based polymer. <i>Optical Materials</i> , 2008, 30, 1335-1342.	3.6	22
44	Liquid crystalline polybutadiene diols with chiral thiol side-chain units. <i>European Polymer Journal</i> , 2008, 44, 233-243.	5.4	22
45	Chiral liquid crystalline thiols for preparation of polybutadiene diols. <i>Liquid Crystals</i> , 2008, 35, 653-660.	2.2	7
46	Thermal and Dielectric Behavior of Liquid-Crystalline Polybutadiene-Diols with Mesogenic Groups in Side Chains. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	2
47	New Chiral Thiols and Related Side Chain Liquid Crystalline Polymers. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 465, 93-107.	0.9	7
48	Efficient holographic recording in novel azo-containing polymer. <i>Optical Materials</i> , 2007, 29, 1756-1762.	3.6	32
49	Swelling and mechanical behavior of charged poly(N-isopropylmethacrylamide) and poly(N-isopropylacrylamide) networks in water/ethanol mixtures. Cononsolvency effect. <i>Polymer Bulletin</i> , 2007, 58, 191-199.	3.3	16
50	Dielectric and thermal behavior of liquid crystalline comb-like polybutadiene-diols with mesogenic groups in side chains. <i>Polymer</i> , 2007, 48, 5721-5733.	3.8	5
51	Surface-Deposited Acid/Base on Glass Microfibers in Formation of (3-Aminopropyl)triethoxysilane-[2-(3,4-epoxycyclohexyl)ethyl]heptaisobutyl- octasilsesquioxane Bioverlay. <i>Langmuir</i> , 2006, 22, 3633-3639.	3.5	4
52	Dynamic mechanical and thermal behavior of liquid-crystalline polybutadiene-diols with mesogenic groups in side chains. <i>European Polymer Journal</i> , 2006, 42, 2450-2457.	5.4	4
53	Structure of montmorillonite cointercalated with stearic acid and octadecylamine: Modeling, diffraction, IR spectroscopy. <i>Journal of Colloid and Interface Science</i> , 2006, 300, 264-269.	9.4	42
54	Hydrogen bonding interactions of styrene-maleimide copolymers with diaminotriazine derivatives. <i>Journal of Applied Polymer Science</i> , 2006, 101, 2338-2346.	2.6	9

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55	Thermal, Dynamic Mechanical and Dielectric Behavior of Liquid-Crystalline Linear and Crosslinked Polyurethanes with Mesogenic Group in Side Chains. <i>Materials Science Forum</i> , 2006, 518, 367-374.	0.3	1
56	SANS Study of Coated Block Copolymer Micelles. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1206-1215.	2.2	2
57	Chemical Clusters in Polyurethane Networks. SAXS, Photoelastic and Dynamic Mechanical Behavior of Networks from Poly(Oxypropylene)Diol, Diisocyanate, and Trimethylolpropane Prepared One-Stage and Two-Stage Process. <i>Journal of Macromolecular Science - Physics</i> , 2005, 44, 909-923.	1.0	1
58	Photochromic liquid crystalline structures containing azobenzene moieties. <i>Macromolecular Symposia</i> , 2004, 212, 399-406.	0.7	2
59	Thermal and dynamic mechanical behavior of polyurethanes based on diisocyanates and diethanolamine derivatives with mesogenic groups in side chain. <i>European Polymer Journal</i> , 2003, 39, 437-448.	5.4	7
60	Formation, structure, thermal and dynamic mechanical behavior of polyurethane networks based on a diethanolamine derivative with mesogenic group. <i>European Polymer Journal</i> , 2003, 39, 1521-1531.	5.4	1
61	Phase transition in swollen gels : Part 32. Temperature transition in charged poly(N-isopropylmethacrylamide) hydrogels in water and aqueous NaCl solutions. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 4360-4367.	2.8	18
62	Dynamic mechanical and thermal behavior of thermotropic polyesters based on 4,4'-alkane-1,4'-diylbis(4-hydroxybenzoic acid) and 4,4'-bis(4-hydroxy)pentane-1,5-diol. <i>European Polymer Journal</i> , 2002, 38, 2333-2341.	5.4	1
63	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). <i>Journal of Chromatography A</i> , 2002, 954, 115-126.	3.7	55
64	Phase Transition in Swollen Gels XXVIII. Swelling and Mechanical Behavior of Poly(1-vinyl-2-pyrrolidone-co-N-vinylcaprolactam) Gels in Water/Acetone Mixtures. <i>Polymer Journal</i> , 2001, 33, 214-220.	2.7	6
65	Formation, structure and physical properties of ordered polyurethane networks. <i>Macromolecular Symposia</i> , 2001, 171, 105-114.	0.7	3
66	Phase transition in swollen gels. <i>Polymer Bulletin</i> , 2001, 46, 99-106.	3.3	13
67	Phase transition in swollen gels. <i>Polymer Bulletin</i> , 2001, 47, 367-374.	3.3	11
68	Formation, structure, thermal and dynamic mechanical behaviour of ordered polyurethane networks based on mesogenic diol. <i>European Polymer Journal</i> , 2001, 37, 1511-1517.	5.4	9
69	Dynamic mechanical study of the transition from swollen particles to hydrogel caused by neutralization. <i>Polymer Bulletin</i> , 2000, 44, 585-592.	3.3	1
70	Dynamic Mechanical Behavior of Ordered Off-Stoichiometric Polyurethane Systems at the Gel Point Threshold. <i>Journal of Macromolecular Science - Physics</i> , 2000, 39, 605-622.	1.0	2
71	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. <i>European Polymer Journal</i> , 1999, 35, 451-459.	5.4	8
72	Phase transition in swollen gels 24. <i>Polymer Gels and Networks</i> , 1998, 6, 163-178.	0.6	8

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73	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
74	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
75	Phase transition in swollen gels. Polymer Bulletin, 1994, 32, 331-338.	3.3	5
76	Phase transition in swollen gels. Polymer Bulletin, 1993, 30, 339-346.	3.3	4
77	Phase transition in swollen gels. Polymer Bulletin, 1992, 27, 577-583.	3.3	4
78	Title is missing!. Angewandte Makromolekulare Chemie, 1992, 201, 33-48.	0.2	2
79	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