

Miroslava DuÅ¡kovÃ¡-SmrÃ¡kovÃ¡

List of Publications by Year in descending order

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59
papers

1,318
citations

331259

21
h-index

360668

35
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59
all docs

59
docs citations

59
times ranked

1561
citing authors

#	ARTICLE	IF	CITATIONS
1	Communicating macropores in PHEMA-based hydrogels for cell seeding: Probabilistic open pore simulation and direct micro-CT proof. <i>Materials and Design</i> , 2021, 198, 109312.	3.3	7
2	Copolymer chain formation of 2-oxazolines by ¹ H-NMR spectroscopy: dependence of sequential composition on substituent structure and monomer ratios. <i>RSC Advances</i> , 2021, 11, 10468-10478.	1.7	3
3	Supramolecular hydrogelation via host-guest anion recognition: Lamellar hydrogel materials for the release of cationic cargo. <i>CheM</i> , 2021, 7, 2473-2490.	5.8	7
4	Revealing the True Morphological Structure of Macroporous Soft Hydrogels for Tissue Engineering. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6672.	1.3	17
5	Volume Phase Transition in Gels: Its Discovery and Development. <i>Gels</i> , 2020, 6, 22.	2.1	21
6	Analysis and removal of air pollutants from scorched wood. <i>Journal of Wood Chemistry and Technology</i> , 2020, 40, 248-257.	0.9	0
7	Wide-Cone Angle Phase-Contrast X-Ray Computed Tomography of Synthetic Polymer Materials. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 8910-8918.	2.4	4
8	Microscopic Structure of Swollen Hydrogels by Scanning Electron and Light Microscopies: Artifacts and Reality. <i>Polymers</i> , 2020, 12, 578.	2.0	62
9	Hydrogel Tissue Expanders for Stomatology. Part II. Poly(styrene-maleic anhydride) Hydrogels. <i>Polymers</i> , 2019, 11, 1087.	2.0	4
10	Polymer Networks: Structure, Properties, and Function. <i>Macromolecular Symposia</i> , 2019, 385, .	0.4	0
11	Biomimetic modification of dual porosity poly(2-hydroxyethyl methacrylate) hydrogel scaffoldsâ€”porosity and stem cell growth evaluation. <i>Biomedical Materials (Bristol)</i> , 2019, 14, 055004.	1.7	10
12	How to Force Polymer Gels to Show Volume Phase Transitions. <i>ACS Macro Letters</i> , 2019, 8, 272-278.	2.3	10
13	Microstructured poly(2-hydroxyethyl methacrylate)/poly(glycerol monomethacrylate) interpenetrating network hydrogels: UV-scattering induced accelerated formation and tensile behavior. <i>European Polymer Journal</i> , 2018, 101, 304-313.	2.6	13
14	Solvent-free, catalyst-free aza-Michael addition of cyclohexylamine to diethyl maleate: Reaction mechanism and kinetics. <i>Tetrahedron</i> , 2018, 74, 58-67.	1.0	33
15	Hydrogel tissue expanders for stomatology. Part I. Methacrylate-based polymers. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 12.	1.7	6
16	Polymer Networks From Nanosized Functional Precursors. <i>Macromolecular Symposia</i> , 2017, 372, 14-27.	0.4	0
17	Reductively Degradable Poly(2-hydroxyethyl methacrylate) Hydrogels with Oriented Porosity for Tissue Engineering Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10544-10553.	4.0	47
18	The Manifold Varieties of Poly(2-Hydroxyethyl Methacrylate) Hydrogelsâ€”IPNs. <i>Macromolecular Symposia</i> , 2017, 372, 28-42.	0.4	9

#	ARTICLE	IF	CITATIONS
19	Swelling of Coating Films. , 2017, , 271-291.		2
20	Role of Distributions in Binders and Curatives and Their Effect on Network Evolution and Structure. , 2017, , 3-37.		1
21	Development of Self-oscillating Human Vocal Folds Prosthesis. Procedia Engineering, 2016, 144, 867-874.	1.2	4
22	The Human Vocal Fold Layers. Their Delineation Inside Vocal Fold as a Background to Create 3D Digital and Synthetic Glottal Model. Journal of Voice, 2016, 30, 529-537.	0.6	7
23	Effect of Constraints on Swelling of Polymer Networks. Macromolecular Symposia, 2015, 358, 120-127.	0.4	5
24	Macroporous Biodegradable Cryogels of Synthetic Poly(α -amino acids). Biomacromolecules, 2015, 16, 3455-3465.	2.6	26
25	Macroporous 2-hydroxyethyl methacrylate hydrogels of dual porosity for cell cultivation: morphology, swelling, permeability, and mechanical behavior. Journal of Polymer Research, 2014, 21, 1.	1.2	24
26	Constrained Swelling of Polymer Networks: Characterization of Vapor-Deposited Cross-Linked Polymer Thin Films. Macromolecules, 2014, 47, 4417-4427.	2.2	21
27	Constraints effects in swollen particulate composites with hyperelastic polymer matrix of finite extensibility modeled by FEM. Journal of Physics: Conference Series, 2014, 490, 012207.	0.3	0
28	Polymer Networks from Preformed Precursors Having Molecular Weight and Group Reactivity Distributions. Theory and Application. Macromolecules, 2013, 46, 2767-2784.	2.2	11
29	Rheology and porosity control of poly(2-hydroxyethyl methacrylate) hydrogels. Polymer, 2013, 54, 661-672.	1.8	25
30	Modeling of Polymer Network Formation from Preformed Precursors. Macromolecular Reaction Engineering, 2012, 6, 426-445.	0.9	20
31	Rheological properties of homogeneous and heterogeneous poly(2-hydroxyethyl methacrylate) hydrogels. Polymer International, 2012, 61, 328-336.	1.6	29
32	Methacrylate hydrogels reinforced with bacterial cellulose. Polymer International, 2012, 61, 1193-1201.	1.6	32
33	Synthesis and characterization of calix[4]arene-containing polyimides. Polymer International, 2011, 60, 405-413.	1.6	6
34	Diluent Induced Cyclization and Phase Separation in Polymer Networks. Macromolecular Symposia, 2011, 306-307, 67-76.	0.4	4
35	Effect of Dilution on Structure and Properties of Polyurethane Networks. Pregel and Postgel Cyclization and Phase Separation. Macromolecules, 2010, 43, 6450-6462.	2.2	23
36	Coiled-Coil Hydrogels: Effect of Grafted Copolymer Composition and Cyclization on Gelation. Macromolecules, 2009, 42, 2265-2274.	2.2	16

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37	Rheological and thermal properties of agarose aqueous solutions and hydrogels. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 322-328.	2.4	87
38	Effect of diluent on the gel point and mechanical properties of polyurethane networks. Polymer Bulletin, 2007, 58, 201-211.	1.7	14
39	Structure development in polyurethane networks based on star-like precursors. Journal of Coatings Technology Research, 2007, 4, 311-315.	1.2	6
40	Synthesis and characterization of novel aromatic azo bond-containing pH-sensitive and hydrolytically cleavable IPN hydrogels. Biomaterials, 2006, 27, 1140-1151.	5.7	54
41	Scratch- and mar-resistant refinish two-pack clear coats " linear versus branched acrylics. Surface Coatings International Part B: Coatings Transactions, 2006, 89, 275-283.	0.3	6
42	Branching theories and thermodynamics used to help designing precursor architectures and binder systems. Surface Coatings International Part B: Coatings Transactions, 2006, 89, 123-131.	0.3	4
43	Highly-branched off-stoichiometric functional polymers as polymer networks precursors. Polymer, 2005, 46, 4265-4282.	1.8	31
44	Polymer Networks from Precursors of Defined Architecture. Activation of Preexisting Branch Points. Macromolecules, 2003, 36, 2915-2925.	2.2	30
45	Swelling Pressure Induced Phase-Volume Transition in Hybrid Biopolymer Gels Caused by Unfolding of Folded Crosslinks: A Model. Biomacromolecules, 2003, 4, 1818-1826.	2.6	15
46	Solvent activity changes and phase separation during crosslinking of coating films. Macromolecular Symposia, 2003, 198, 259-270.	0.4	14
47	Novel Aromatic Azo-Containing pH-Sensitive Hydrogels: Synthesis and Characterization. Macromolecules, 2002, 35, 7791-7803.	2.2	37
48	Polyurethane networks with controlled architecture of dangling chains. Macromolecular Chemistry and Physics, 2002, 203, 1936-1948.	1.1	33
49	Title is missing!. Journal of Materials Science, 2002, 37, 4733-4741.	1.7	39
50	A model for swelling changes in a covalently crosslinked gel caused by unfolding of folded domains. Polymer Bulletin, 2001, 47, 351-358.	1.7	8
51	Cure Curve with Two Plateaus - The Result of Individual Vulcanization Reactions. Journal of Polymer Engineering, 2001, 21, .	0.6	5
52	Network structure formation during crosslinking of organic coating systems. Progress in Polymer Science, 2000, 25, 1215-1260.	11.8	202
53	Vapor pressure over stressed coating films. Polymer Bulletin, 2000, 45, 83-88.	1.7	3
54	Network structure dependence of volume and glass transition temperature. Journal of Rheology, 2000, 44, 961-972.	1.3	12

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55	Association in Solution and Adsorption at an Air/Water Interface of Alternating Copolymers of Maleic Anhydride and Styrene. <i>Langmuir</i> , 2000, 16, 3757-3763.	1.6	66
56	Role of cyclization in the degree-of-polymerization distribution of hyperbranched polymers. <i>Polymer Bulletin</i> , 1999, 42, 489-496.	1.7	106
57	Wetting Dynamics of Alkyl Ketene Dimer on Cellulosic Model Surfaces. <i>Langmuir</i> , 1999, 15, 7863-7869.	1.6	34
58	Multifunctional polyurethane network structures. <i>Macromolecular Symposia</i> , 1999, 148, 1-14.	0.4	2
59	True Story of Poly(2-Hydroxyethyl Methacrylate)-Based Contact Lenses: How Did It Really Happen. <i>Substantia</i> , 0, , .	0.1	1