

Karel Jerabek

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,470
citations

361045

20
h-index

329751

37
g-index

60
all docs

60
docs citations

60
times ranked

1081
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of swollen polymer gels using size exclusion chromatography. Analytical Chemistry, 1985, 57, 1598-1602.	3.2	138
2	Mechanism of hypercrosslinking of chloromethylated styrene-divinylbenzene copolymers. Reactive and Functional Polymers, 1999, 41, 21-25.	2.0	118
3	Catalysis and polymer networks – the role of morphology and molecular accessibility. Journal of Molecular Catalysis A, 2001, 177, 3-20.	4.8	114
4	Generation of Size-Controlled Pd0 Nanoclusters inside Nanoporous Domains of Gel-Type Resins: Diverse and Convergent Evidence That Supports a Strategy of Template-Controlled Synthesis. Angewandte Chemie - International Edition, 2004, 43, 959-962.	7.2	92
5	Determination of pore volume distribution from size exclusion chromatography data. Analytical Chemistry, 1985, 57, 1595-1597.	3.2	82
6	Ring opening metathesis polymerisation of emulsion templated dicyclopentadiene giving open porous materials with excellent mechanical properties. Polymer Chemistry, 2012, 3, 325-328.	1.9	70
7	Solvent impregnated resin (SIR) containing dialkyl dithiophosphoric acid on Amberlite XAD-2: extraction of copper and comparison to the liquid-liquid extraction. Reactive and Functional Polymers, 1996, 28, 149-158.	2.0	57
8	On the mechanical properties of HIPE templated macroporous poly(dicyclopentadiene) prepared with low surfactant amounts. Journal of Materials Chemistry A, 2013, 1, 487-490.	5.2	56
9	Post polymerisation hypercrosslinking of styrene/divinylbenzene poly(HIPE)s: Creating micropores within macroporous polymer. Polymer, 2014, 55, 410-415.	1.8	54
10	Responsive Poly(acrylic acid) and Poly(N-isopropylacrylamide) Monoliths by High Internal Phase Emulsion (HIPE) Templating. Macromolecular Chemistry and Physics, 2011, 212, 2151-2158.	1.1	47
11	Effects of post-crosslinking of macroreticular styrene-divinylbenzene copolymers on their morphology. Polymer, 2006, 47, 6544-6550.	1.8	45
12	Influence of hypercrosslinking on adsorption and absorption on or in styrenic polymers. Reactive and Functional Polymers, 2004, 59, 71-79.	2.0	37
13	Porogenic Solvents Influence on Morphology of 4-Vinylbenzyl Chloride Based PolyHIPEs. Macromolecules, 2008, 41, 3543-3546.	2.2	37
14	Nanomorphology of Polymer Frameworks and their Role as Templates for Generating Size-Controlled Metal Nanoclusters. Chemistry - A European Journal, 2003, 9, 5292-5296.	1.7	35
15	Inverse Steric Exclusion Chromatography as a Tool for Morphology Characterization. ACS Symposium Series, 1996, , 211-224.	0.5	34
16	SOLVENT - IMPREGNATED RESINS VIA ACID-BASE INTERACTION OF POLY(4-VINYLPYRIDINE) RESIN AND DI(2-ETHYLHEXYL) DITHIOPHOSPHORIC ACID.. Solvent Extraction and Ion Exchange, 1997, 15, 259-283.	0.8	32
17	Highly Chemoselective Hydrogenation of 2-Ethylanthraquinone to 2-Ethylanthrahydroquinone Catalyzed by Palladium Metal Dispersed inside Highly Lipophilic Functional Resins. Chemistry - A European Journal, 2002, 8, 2962.	1.7	29
18	Working-state morphologies of ion exchange catalysts and their influence on reaction kinetics. Journal of Molecular Catalysis A, 2010, 333, 109-113.	4.8	25

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19	Polymer matrix influence on ion exchange resin- catalyzed reactions. Journal of Molecular Catalysis, 1987, 39, 161-167.	1.2	23
20	Modelling of the Deactivation of Polymer-Supported Palladium Catalysts in the Hydrogenation of 4-Nitrotoluene. Collection of Czechoslovak Chemical Communications, 1998, 63, 1074-1088.	1.0	22
21	Bisphenol A synthesis – modeling of industrial reactor and catalyst deactivation. Reactive and Functional Polymers, 2004, 60, 77-83.	2.0	20
22	Comparison of the kinetics of bisphenol A synthesis on promoted and unpromoted ion exchanger catalysts. Collection of Czechoslovak Chemical Communications, 1989, 54, 321-325.	1.0	17
23	Crosslinked Poly(2-Hydroxyethyl Methacrylate) by Emulsion Templating: Influence of Crosslinker on Microcellular Structure. Journal of Polymers and the Environment, 2012, 20, 1095-1102.	2.4	17
24	Dry- and swollen-state morphology of novel high surface area polymers. Microporous and Mesoporous Materials, 2014, 185, 26-29.	2.2	17
25	Relations between morphology and catalytic activity of ion exchanger catalysts for synthesis of bisphenol A. Applied Catalysis A: General, 2002, 232, 181-188.	2.2	15
26	Interphase mobility and migration of hydrophobic organic metal extractant molecules in solvent-impregnated resins. Separation Science and Technology, 2002, 37, 2607-2622.	1.3	14
27	Characterisation of Solute Mobility in Hypercross-Linked Resins in Solvents of Different Polarity: Two Promising Supports for Catalysis. Chemistry - A European Journal, 2012, 18, 4706-4713.	1.7	14
28	Palladium hydrogenation catalysts supported on ion-exchange resins. Journal of Molecular Catalysis, 1989, 55, 247-255.	1.2	12
29	Synthesis of novel chelating resins containing dithiophosphoric functionality and comparison to analogous solvent impregnated resins. Separation Science and Technology, 2002, 37, 823-846.	1.3	12
30	Functional Polymers Prepared from p-Styrenesulfonyl Chloride as the Functional Monomer. Industrial & Engineering Chemistry Research, 1995, 34, 2598-2604.	1.8	11
31	Highly Hydrophilic Copolymers of N,N-Dimethylacrylamide, Acrylamido-2-methylpropanesulfonic acid, and Ethylenedimethacrylate: Nanoscale Morphology in the Swollen State and Use as Exotemplates for Synthesis of Nanostructured Ferric Oxide. Chemistry - A European Journal, 2012, 18, 6632-6643.	1.7	11
32	The effect of inhomogeneity of the polymer structure on catalytic activity of ion exchangers. Collection of Czechoslovak Chemical Communications, 1979, 44, 2612-2618.	1.0	11
33	Gel-Type Polyacrylic Resins Cross-Linked with Trimethylolpropanetrimethacrylate: The Issue of Their Nanostructure and Molecular Accessibility Unveiled with a Combination of Inverse Steric Exclusion Chromatography (ISEC), and ESR and CP-MAS13C NMR Spectroscopy. Chemistry - A European Journal, 2005, 11, 7395-7404.	1.7	10
34	Cross-linked poly-4-vinylpyridines as useful supports in metal catalysis: micro- and nanometer scale morphology. Journal of Molecular Catalysis A, 2007, 268, 176-184.	4.8	10
35	Influence of partial neutralization on catalytic activity of ion exchange resin. Journal of Molecular Catalysis A, 2005, 231, 21-26.	4.8	9
36	Reinforcing of expanded polymer morphology using peroxy radical initiator. Reactive and Functional Polymers, 2009, 69, 353-357.	2.0	9

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37	Synthesis of Nanocomposites from Pd ⁰ and a Hypercrosslinked Functional Resin Obtained from a Conventional Gel-type Precursor. Chemistry - A European Journal, 2013, 19, 9381-9387.	1.7	9
38	Influence of Topology of Highly Porous Methacrylate Polymers on their Mechanical Properties. Macromolecular Materials and Engineering, 2018, 303, 1700337.	1.7	9
39	Interpenetrating organometallic polymer networks: Synthetic and morphological aspects. Advanced Materials, 1992, 4, 97-99.	11.1	8
40	Formation of porous polymer morphology by microsineresis during divinylbenzene polymerization. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 774-781.	2.4	8
41	Polymer structure and catalytic activity of ion exchangers. Collection of Czechoslovak Chemical Communications, 1981, 46, 1577-1587.	1.0	8
42	Role of water as a coporogen in the synthesis of mesoporous poly(divinylbenzenes). Journal of Applied Polymer Science, 2014, 131, .	1.3	7
43	Influence of the functionalization degree of acidic ion-exchange resins on ethyl octyl ether formation. Reactive and Functional Polymers, 2014, 78, 14-22.	2.0	5
44	Two-step syneretic formation of highly porous morphology during copolymerization of hydroxyethyl methacrylate and ethylene glycol dimethylacrylate. Materials Today Communications, 2016, 7, 16-21.	0.9	5
45	Influence of Functional Group Concentration on Hypercrosslinking of Poly(vinylbenzyl chloride) PolyHIPEs: Upgrading Macroporosity with Nanoporosity. Polymers, 2021, 13, 2721.	2.0	5
46	Kinetics of methyl tert. butyl ether synthesis in gaseous phase. Collection of Czechoslovak Chemical Communications, 1990, 55, 1033-1037.	1.0	4
47	Morphology of swollen copolymers of 4-vinylpyridine and divinylbenzene. Reactive & Functional Polymers, 1993, 19, 81-86.	0.8	4
48	Catalysis inside functional synthetic resins: the issue of catalyst accessibility and stability. Journal of Molecular Catalysis A, 2001, 177, 1.	4.8	4
49	Modifications in the morphology of poly(styrene-co-divinylbenzenes) induced by gamma-ray irradiation. Reactive and Functional Polymers, 2010, 70, 361-365.	2.0	4
50	Preparation of molecularly imprinted copoly(acrylic acid-divinylbenzene) for extraction of environmentally relevant sertraline residues. Reactive and Functional Polymers, 2018, 131, 378-383.	2.0	4
51	Heterogeneous Catalyst and Process for the Production of Biodiesel from High Free-Fatty Acid-Containing Feedstocks. Chemical Industries, 2008, , 279-289.	0.1	3
52	Nanostructure and molecular accessibility of gel-type resins for supported bio-catalysis. Reactive and Functional Polymers, 2003, 55, 21-26.	2.0	2
53	Comparison of different methods for study of pore structure. Collection of Czechoslovak Chemical Communications, 1981, 46, 2060-2067.	1.0	2
54	Kinetics of ethylbenzene hydrogenolytic dealkylation on Ni-Al ₂ O ₃ catalyst. Collection of Czechoslovak Chemical Communications, 1989, 54, 316-320.	1.0	2

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55	Possibilities of Decreasing Absorption of Water in Ion-Exchanger Catalysts. Collection of Czechoslovak Chemical Communications, 1998, 63, 1907-1914.	1.0	2
56	Changes in Ion Exchanger Catalysts after Extremely Long Exposure to the Reactor Environment. Industrial & Engineering Chemistry Research, 2013, 52, 985-989.	1.8	1
57	Polybenzimidazole as a Promising Support for Metal Catalysis: Morphology and Molecular Accessibility in the Dry and Swollen State. Chemistry - A European Journal, 2000, 6, 794-799.	1.7	1
58	Effect of post-polymerization crosslinking on morphology of mesoporous poly-divinylbenzene. Polymer Bulletin, 0, , 1.	1.7	0