Libor Brabec

List of Publications by Year
in descending order

58 papers	952 citations	394421 19 h-index	501196 28 g-index
59 all docs	59 docs citations	59 times ranked	1145 citing authors

#	Article	IF	Citations
1	Controlling the competitive growth of zeolite phases without using an organic structure-directing agent. Synthesis of Al-rich *BEA. Microporous and Mesoporous Materials, 2022, 333, 111726.	4.4	3
2	Methodology for Simultaneous Analysis of Photocatalytic deNOx Products. Catalysts, 2022, 12, 661.	3.5	2
3	Ultrasonic Pretreatment as a Tool for the Preparation of Low-Defect Zeolite Mordenite. ACS Omega, 2021, 6, 2340-2345.	3.5	4
4	Hierarchical TiO2 Layers Prepared by Plasma Jets. Nanomaterials, 2021, 11, 3254.	4.1	2
5	Analysis of decisive structural parameters of zeolites for alkylation of benzene with ethylene. Applied Catalysis A: General, 2020, 591, 117379.	4.3	17
6	Milling Activation for the Solventâ€Free Synthesis of the Zeolite Mordenite. European Journal of Inorganic Chemistry, 2020, 2020, 2791-2797.	2.0	8
7	Mechanochemical Pretreatment for Efficient Solventâ€Free Synthesis of SSZâ€13 Zeolite. Chemistry - A European Journal, 2019, 25, 12068-12073.	3.3	18
8	Frontispiece: Mechanochemical Pretreatment for Efficient Solventâ€Free Synthesis of SSZâ€13 Zeolite. Chemistry - A European Journal, 2019, 25, .	3.3	0
9	Immobilized rGO/TiO2 Photocatalyst for Decontamination of Water. Catalysts, 2019, 9, 708.	3.5	25
10	Electrophoretic Deposition of Zeolites Focused on Attendant Electrodecantation and Subsequent Growth of Electric Current. ChemistrySelect, 2019, 4, 3185-3190.	1.5	1
11	Photocatalytic performance of porous TiO2 layers prepared by quantitative electrophoretic deposition from organic solvents. Applied Catalysis B: Environmental, 2018, 227, 70-78.	20.2	22
12	Polyamic acid: nanoprecipitation and electrophoretic deposition on porous supports. Journal of Coatings Technology Research, 2018, 15, 489-496.	2.5	4
13	Interaction of human osteoblast-like Saos-2 cells with stainless steel coated by silicalite-1 films. Materials Science and Engineering C, 2017, 76, 775-781.	7.3	10
14	Effect of Enhanced Accessibility of Acid Sites in Micromesoporous Mordenite Zeolites on Hydroisomerization of n-Hexane. ACS Catalysis, 2017, 7, 5781-5795.	11.2	69
15	Static in-situ hydrothermal synthesis of small pore zeolite SSZ-16 (AFX) using heated and pre-aged synthesis mixtures. Microporous and Mesoporous Materials, 2016, 228, 107-115.	4.4	12
16	Self-templating synthesis of hollow spheres of zeolite ZSM-5 from spray-dried aluminosilicate precursor. Microporous and Mesoporous Materials, 2016, 228, 59-63.	4.4	8
17	Post-synthesis incorporation of Al into germanosilicate ITH zeolites: the influence of treatment conditions on the acidic properties and catalytic behavior in tetrahydropyranylation. Catalysis Science and Technology, 2015, 5, 2973-2984.	4.1	29
18	Stochastic reconstruction of mixed-matrix membranes and evaluation of effective permeability. Computational Materials Science, 2014, 89, 142-156.	3.0	18

#	Article	IF	Citations
19	Transitionâ€Metalâ€Catalyzed Chainâ€Growth Polymerization of 1,4â€Diethynylbenzene into Microporous Crosslinked Poly(phenylacetylene)s: the Effect of Reaction Conditions. Macromolecular Chemistry and Physics, 2014, 215, 1855-1869.	2.2	25
20	Combined silica sources to prepare preferentially oriented silicalite-1 layers on various supports. Microporous and Mesoporous Materials, 2013, 174, 154-162.	4.4	20
21	A water-swollen thin film composite membrane for effective upgrading of raw biogas by methane. Separation and Purification Technology, 2012, 89, 212-216.	7.9	34
22	Mixed matrix membranes based on 3â€aminopropyltriethoxysilane endcapped polyimides and silicaliteâ€1. Journal of Applied Polymer Science, 2012, 124, E233.	2.6	11
23	Transport Properties of Stochastically Reconstructed Porous Media with Improved Pore Connectivity. Transport in Porous Media, 2011, 88, 87-106.	2.6	45
24	Silicalite-1 Crystals Etched with Hydrofluoric Acid Dissolved in Water or Acetone. Journal of Physical Chemistry C, 2010, 114, 13685-13694.	3.1	20
25	Stochastic Reconstruction of Particulate Media Using Simulated Annealing: Improving Pore Connectivity. Transport in Porous Media, 2009, 76, 179-198.	2.6	80
26	Effective diffusivities of gases in a reconstructed porous body. Chemical Engineering Research and Design, 2008, 86, 713-722.	5.6	4
27	Long-term stability of composite zeolite MFI membranes. Studies in Surface Science and Catalysis, 2008, 174, 673-676.	1.5	2
28	Characterization of textural and surface properties of mesoporous metathesis catalysis. Studies in Surface Science and Catalysis, 2007, 170, 1145-1152.	1.5	11
29	Electrolytic Processes in Various Degrees of Dispersion. Langmuir, 2007, 23, 1523-1529.	3.5	12
30	Network modelling of capillary pressure curves, permeability, and diffusivity. Chemical Engineering Science, 2007, 62, 5117-5122.	3.8	6
31	Silicalite-1 polycrystalline layers and crystal twins: Morphology and grain boundaries. Materials Chemistry and Physics, 2007, 102, 67-74.	4.0	19
32	Hardness and elastic modulus of silicalite-1 crystal twins. Microporous and Mesoporous Materials, 2006, 94, 226-233.	4.4	25
33	Morphology and structure of silicalite-1 crystals. Evidence of twinning by X-ray and electron diffraction. Studies in Surface Science and Catalysis, 2005, 158, 741-748.	1.5	6
34	Polycrystalline silicalite-1 layers: texture and kinetics of growth. Microporous and Mesoporous Materials, 2005, 78, 29-36.	4.4	6
35	Polycrystalline wafers of silicalite-1 etched by HF acid and viewed by SEM. Applied Surface Science, 2004, 228, 1-4.	6.1	10
36	Square root relationship in growth kinetics of silicalite-1 membranes. Studies in Surface Science and Catalysis, 2002, , 1505-1511.	1.5	2

#	Article	IF	Citations
37	Incorporation of zeolites in polyimide matrices. Studies in Surface Science and Catalysis, 2002, , 1521-1528.	1.5	5
38	Spectroscopic study of the surface oxidation of mechanically activated sulphides. Applied Surface Science, 2002, 200, 36-47.	6.1	40
39	Ship-in-bottle synthesis of anionic Rh carbonyls in faujasites. Journal of Molecular Catalysis A, 2001, 166, 283-292.	4.8	13
40	Ship-in-bottle synthesis of Ptâ€“Rh carbonyls in NaX and NaY: FTIR study. Journal of Molecular Catalysis A, 2001, 169, 127-136.	4.8	9
41	Effect of zeolitic water on the carbonylation route of platinum(II) in NaX to [Pt3(CO)6]22â¯ Chini complexes embedded in cavities of the zeolite. Journal of Molecular Catalysis A, 2000, 157, 151-161.	4.8	11
42	Subnanometer platinum clusters in zeolite NaEMT via stoichiometric carbonyl clusters. Microporous and Mesoporous Materials, 2000, 35-36, 511-519.	4.4	9
43	NaX-encaged Pt carbonyls: reversible substitution of CO ligands by oxygen and ammonia. Evidence for a conservation of the polynuclear Pt skeleton. Physical Chemistry Chemical Physics, 2000, 2, 3099-3104.	2.8	9
44	Reaction of Nitric Oxide Adsorbed on Platinum Clusters in X Zeolites. Effect of Cluster Size and Nature of Alkali Cations. Collection of Czechoslovak Chemical Communications, 1999, 64, 474-482.	1.0	0
45	Various types of Ga in MFI metallosilicates: characterization and catalytic activity. Applied Catalysis A: General, 1998, 167, 309-320.	4.3	36
46	Fe in MFI metallosilicates, characterization and catalytic activity. Applied Catalysis A: General, 1998, 170, 105-116.	4.3	22
47	Pt Species in Zeolite X: Catalytic Activity in18O Exchange of O2with Zeolitic Oxygen,18O2â€“16O2Equilibration, H2â€“D2Equilibration, and the COâ€“NO Reaction. Journal of Catalysis, 1997, 166, 186-194.	6.2	12
48	High nuclearity Pt carbonyls in alkali-metal X zeolites. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 2035-2041.	1.7	29
49	Anionic Pt Carbonyl Complexes in Faujasites:Â Matrix Effect. The Journal of Physical Chemistry, 1996, 100, 15517-15524.	2.9	24
50	Pt0 in alkali faujasites. 1. Preparation by thermal decomposition of [Pt(NH3)4]2+ in vacuum. Zeolites, 1996, 16, 173-183.	0.5	25
51	Effect of Li, Na, K and Cs on Vacuum Decomposition of Tetraammineplatinum(II) in Zeolites. Catalytic Activity in CO + NO Reaction. Collection of Czechoslovak Chemical Communications, 1995, 60, 428-442.	1.0	5
52	Cyclohexanol and cyclohexanone reactions on HZSM-5 zeolites. Studies in Surface Science and Catalysis, 1994, 84, 1889-1896.	1.5	1
53	Catalytic conversion of oxygen containing cyclic compounds. Part II. Cyclohexanone conversion on HZSM-5 zeolites. Journal of Molecular Catalysis, 1994, 94, 243-253.	1.2	4
54	Catalytic conversion of oxygen containing cyclic compounds. Part I. Cyclohexanol conversion over H[Al]ZSM-5 and H[B]ZSM-5. Journal of Molecular Catalysis, 1994, 94, 117-130.	1.2	18

#	Article	IF	Citations
55	Relative ionization cross-sections of oxygenated C(4) molecules. International Journal of Mass Spectrometry and Ion Processes, 1990, 97, 117-124.	1.8	8
56	Unstable enols in the gas phase. Preparation ionization, energies, and heats of formation of (E)- and (Z)-2-buten-2-ol, 2-methyl-1-propen-1-ol, and 3-methyl-2-buten-2-ol. Journal of the American Chemical Society, 1988, 110, 7984-7990.	13.7	57
57	Sulfenic acids in the gas phase. Preparation, ionization energies and heats of formation of methane-, ethene-, and benzenesulfenic acid. Collection of Czechoslovak Chemical Communications, 1988, 53, 2140-2158.	1.0	24
58	Influence of the ultrasonic-assisted synthesis on Al distribution in a MOR zeolite: from gel to resulting material. New Journal of Chemistry, 0, , .	2.8	1