Vladimir L Zholobenko

List of Publications by Year
in descending order

71	3,015	172457	161849
papers	citations	29 h-index	54 g-index

74	74	74	3191
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pore Size Effects in Fischer Tropsch Synthesis over Cobalt-Supported Mesoporous Silicas. Journal of Catalysis, 2002, 206, 230-241.	6.2	462
2	Study of different states of nonframework aluminum in hydrothermally dealuminated HZSM-5 zeolites using diffuse reflectance i.r. spectroscopy. Zeolites, 1990, 10, 266-271.	0.5	143
3	Stoichiometric methane conversion to ethane using photochemical looping at ambient temperature. Nature Energy, 2020, 5, 511-519.	39.5	130
4	Inhomogeneity of Broensted acid sites in H-mordenite. The Journal of Physical Chemistry, 1993, 97, 5962-5964.	2.9	124
5	Structure of Micelles of a Nonionic Block Copolymer Determined by SANS and SAXS. Journal of Physical Chemistry B, 2011, 115, 11318-11329.	2.6	122
6	Impact of aqueous impregnation on the long-range ordering and mesoporous structure of cobalt containing MCM-41 and SBA-15 materials. Microporous and Mesoporous Materials, 2005, 79, 29-39.	4.4	114
7	Probing the acid sites of zeolites with pyridine: Quantitative AGIR measurements of the molar absorption coefficients. Journal of Catalysis, 2020, 385, 52-60.	6.2	106
8	A new type of acidic hydroxyl groups in ZSM-5 zeolite and in mordenite according to diffuse reflectance i.r. spectroscopy. Zeolites, 1988, 8, 175-178.	0.5	104
9	In situ FTIR study of the formation of MCM-41. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 2025-2032.	1.7	90
10	Functionalized zeolite Aâ€“nafion composite membranes for direct methanol fuel cells. Solid State Ionics, 2007, 178, 1248-1255.	2.7	90
11	Characterization of the Initial Stages of SBA-15 Synthesis by in Situ Time-Resolved Small-Angle X-ray Scattering. Journal of Physical Chemistry B, 2005, 109, 22780-22790.	2.6	87
12	Classification and individualisation of black ballpoint pen inks using principal component analysis of UVâ€“vis absorption spectra. Forensic Science International, 2008, 174, 16-25.	2.2	86
13	Identification of isolated Pt atoms in H-mordenite. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 233.	1.7	85
14	Initial stages of SBA-15 synthesis: An overview. Advances in Colloid and Interface Science, 2008, 142, 67-74.	14.7	75
15	Ferrierite and SUZ-4 Zeolite:Â Characterization of Acid Sites. Journal of Physical Chemistry B, 1998, 102, 2715-2721.	2.6	70
16	Synthesis of MCM-41 materials: an in situ FTIR study. Microporous Materials, 1997, 11, 83-86.	1.6	65
17	Kinetics of the Formation of 2D-Hexagonal Silica Nanostructured Materials by Nonionic Block Copolymer Templating in Solution. Journal of Physical Chemistry B, 2011, 115, 11330-11344.	2.6	64
18	On the possible nature of sites responsible for the enhancement of cracking activity of HZSM-5 zeolites dealuminated under mild steaming conditions. Zeolites, 1990, 10, 304-306.	0.5	57

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19	Mesoporous ZSM-5 catalysts: Preparation, characterisation and catalytic properties. Part I: Comparison of different synthesis routes. Microporous and Mesoporous Materials, 2006, 89, 78-87.	4.4	57
20	BrÃ¸nsted acid sites in zeolites. FTIR study of molecular hydrogen as a probe for acidity testing. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 1047-1054.	1.7	56
21	Support mesoporosity: a tool for better control of catalytic behavior of cobalt supported Fischer Tropsch catalysts. Studies in Surface Science and Catalysis, 2002, 144, 609-616.	1.5	56
22	On the nature of the sites responsible for the enhancement of the cracking activity of HZSM-5 zeolites dealuminated under mild steaming conditions: Part 2. Zeolites, 1991, 11, 132-134.	0.5	49
23	The Role of Steric Effects and Acidity in the Direct Synthesis of isoâ€Paraffins from Syngas on Cobalt Zeolite Catalysts. ChemCatChem, 2016, 8, 380-389.	3.7	47
24	External surface phenomena in dealumination and desilication of large single crystals of ZSM-5 zeolite synthesized from a sustainable source. Microporous and Mesoporous Materials, 2019, 286, 57-64.	4.4	44
25	New insights into the initial steps of the formation of SBA-15 materials: an in situ small angle neutron scattering investigation. Chemical Communications, 2007, , 834-836.	4.1	39
26	On the enhancing effect of Ce in Pd-MOR catalysts for NOx CH4-SCR: A structure-reactivity study. Applied Catalysis B: Environmental, 2016, 195, 121-131.	20.2	39
27	Nanostructured Zeolites: The Introduction of Intracrystalline Mesoporosity in Basic Faujasite-type Catalysts. ACS Applied Nano Materials, 2018, 1, 310-318.	5.0	39
28	Acid sites in mesoporous materials: a DRIFTS study. Microporous and Mesoporous Materials, 2001, 44-45, 793-799.	4.4	31
29	On the Structural, Acidic and Catalytic Properties of Zeolite SUZ-4. Journal of Physical Chemistry B, 1999, 103, 197-202.	2.6	30
30	Synchrotron X-ray diffractionâ€“diffusion studies of the preparation of SBA-15 materials. Microporous and Mesoporous Materials, 2003, 66, 297-302.	4.4	29
31	Nanostructured large-pore zeolite: The enhanced accessibility of active sites and its effect on the catalytic performance. Microporous and Mesoporous Materials, 2020, 293, 109805.	4.4	29
32	Nickelâ€“zeolite composite catalysts with metal nanoparticles selectively encapsulated in the zeolite micropores. Journal of Materials Science, 2019, 54, 5399-5411.	3.7	27
33	Accessibility and Location of Acid Sites in Zeolites as Probed by Fourier Transform Infrared Spectroscopy and Magic Angle Spinning Nuclear Magnetic Resonance. Johnson Matthey Technology Review, 2018, 62, 279-290.	1.0	26
34	Direct Production of Isoâ€Paraffins from Syngas over Hierarchical Cobaltâ€ZSMâ€5 Nanocomposites Synthetized by using Carbon Nanotubes as Sacrificial Templates. ChemCatChem, 2018, 10, 2291-2299.	3.7	25
35	The effect of ZSM-5 zeolite crystal size on p-xylene selectivity in toluene disproportionation. Microporous and Mesoporous Materials, 2020, 302, 110221.	4.4	24
36	Synthesis of nanostructured catalysts by surfactant-templating of large-pore zeolites. Nanoscale Advances, 2019, 1, 2029-2039.	4.6	20

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37	Preparation of Phenol over Dehydroxylated HZSM-5 Zeolites. Mendeleev Communications, 1993, 3, 28-29.	1.6	18
38	Genesis of RhonClusters in Zeolite Y; Interaction with Zeolite â€œProtonsâ€• Studies in Surface Science and Catalysis, 1994, 84, 893-900.	1.5	18
39	Structural features and stability of Spanish sepiolite as a potential catalyst. Applied Clay Science, 2018, 162, 297-304.	5.2	16
40	Ion-exchanged zeolite P as a nanostructured catalyst for biodiesel production. Energy Reports, 2019, 5, 357-363.	5.1	16
41	TGA-DTA study on calcination of zeolitic catalysts. Thermochimica Acta, 1997, 294, 39-44.	2.7	14
42	Structural transitions in zeolite P An in situ FTIR study. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 1779-1781.	1.7	14
43	Formation of copper nanoparticles in LTL nanosized zeolite: spectroscopic characterization. Physical Chemistry Chemical Physics, 2018, 20, 2880-2889.	2.8	11
44	In situ spectroscopic identification of the six types of asbestos. Journal of Hazardous Materials, 2021, 403, 123951.	12.4	11
45	Effects of CaCl2 and MgCl2 on Fourier Transform Infrared Spectra of Lung Cancer Cells. Applied Spectroscopy, 2004, 58, 61-67.	2.2	10
46	Zeolite-Based Catalysts for Microwave-Induced Transformations of Hydrocarbons. Catalysis Letters, 2003, 89, 35-40.	2.6	9
47	Formation of Copper Nanoparticles in LTL Nanosized Zeolite: Kinetics Study. Journal of Physical Chemistry C, 2016, 120, 26300-26308.	3.1	9
48	Transalkylation of Toluene with 1,2,4-Trimethylbenzene over Large Pore Zeolites. Industrial & Engineering Chemistry Research, 2017, 56, 9799-9808.	3.7	9
49	Influence of Precursors on the Induction Period and Transition Regime of Dimethyl Ether Conversion to Hydrocarbons over ZSM-5 Catalysts. Industrial & Engineering Chemistry Research, 2019, 58, 16479-16488.	3.7	9
50	Versatile Roles of Metal Species in Carbon Nanotube Templates for the Synthesis of Metalâ€“Zeolite Nanocomposite Catalysts. ACS Applied Nano Materials, 2019, 2, 4507-4517.	5.0	9
51	Spontaneous formation of Fe(CO)5 from CO and the steel walls of an FTIR cell. Journal of Molecular Catalysis, 1993, 83, 391-395.	1.2	8
52	N2O Decomposition over Dehydroxylated HZSM-5 Zeolites. Mendeleev Communications, 1993, 3, 67-68.	1.6	8
53	Photooxidation and dark thermal oxidation of 1-butene on cationic forms of zeolite Y: a spectroscopic study. Physical Chemistry Chemical Physics, 2003, 5, 2699.	2.8	8
54	Ketone Formation via Decarboxylation Reactions of Fatty Acids Using Solid Hydroxide/Oxide Catalysts. Inorganics, 2018, 6, 121.	2.7	7

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55	Effect of hydrogenative regeneration on the activity of beta and Pt-Beta zeolites during the transalkylation of toluene with 1,2,4-trimethylbenzene. Microporous and Mesoporous Materials, 2020, 293, 109737.	4.4	7
56	Performance modelling of zeolite-based potentiometric sensors. Sensors and Actuators B: Chemical, 2022, 356, 131343.	7.8	7
57	Out-of-plane bending vibrations of bridging OH groups in zeolites: A new characteristic of the geometry and acidity of a broensted site. Studies in Surface Science and Catalysis, 1995, 97, 63-70.	1.5	6
58	SANS study of the mechanisms and kinetics of the synthesis of mesoporous materials from micelles of tri-block copolymers. Studies in Surface Science and Catalysis, 2008, , 805-810.	1.5	6
59	Effect of tapeworm parasitisation on cadmium toxicity in the bioindicator copepod, Cyclops strenuus. Ecological Indicators, 2014, 37, 21-26.	6.3	6
60	A Pencil-Drawn Electronic Tongue for Environmental Applications. Sensors, 2021, 21, 4471.	3.8	6
61	FTIR study of the acidic properties of substituted aluminophosphates. Studies in Surface Science and Catalysis, 1995, 97, 359-366.	1.5	5
62	Thinglink and the Laboratory: Interactive Simulations of Analytical Instrumentation for HE Science Curricula. Journal of Chemical Education, 2022, 99, 2277-2290.	2.3	5
63	FAU and EMT zeolite catalysts: Effect of structure and acidity oncatalytic performance. Studies in Surface Science and Catalysis, 1995, 94, 560-567.	1.5	4
64	Ion sensing pencil: Draw your own sensor. Sensors and Actuators B: Chemical, 2021, 337, 129751.	7.8	4
65	On the influence of alumina as a binder on the performance of Pt-Beta catalyst during the transalkylation of toluene and 1,2,4-Trimethylbenzene. Microporous and Mesoporous Materials, 2021, 320, 111095.	4.4	4
66	Pt/zeolite catalysts for hydrocracking: A comparative study on FAU and EMT. Studies in Surface Science and Catalysis, 1997, 105, 917-924.	1.5	3
67	Broensted acidity in zeolites. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1997, 19, 1673-1678.	0.4	2
68	Modelling mesoporous materials with analytical functions. Studies in Surface Science and Catalysis, 2004, 154, 1448-1455.	1.5	1
69	Catalytic performance of microporous materials for the production of renewable fuels. Journal of Porous Materials, 2019, 26, 69-76.	2.6	1
70	Heterogeneous ketonic decarboxylation of dodecanoic acid: studying reaction parameters. RSC Advances, 2021, 11, 35575-35584.	3.6	1
71	The dynamic desorption of krypton from the zeolite chabazite. Chemical Communications, 2004, , 2796.	4.1	0