

Shang-Bin Liu

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163
papers

6,167
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44
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g-index

167
ext. papers

6,752
ext. citations

5.9
avg, IF

5.79
L-index

#	Paper	IF	Citations
163	Disproportionation and transalkylation of alkylbenzenes over zeolite catalysts. <i>Applied Catalysis A: General</i> , 1999 , 181, 355-398	5.1	283
162	Understanding the high photocatalytic activity of (B, Ag)-codoped TiO ₂ under solar-light irradiation with XPS, solid-state NMR, and DFT calculations. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1607-16	16.4	201
161	Acid properties of solid acid catalysts characterized by solid-state ³¹ P NMR of adsorbed phosphorous probe molecules. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 14889-901	3.6	179
160	P NMR Chemical Shifts of Phosphorus Probes as Reliable and Practical Acidity Scales for Solid and Liquid Catalysts. <i>Chemical Reviews</i> , 2017 , 117, 12475-12531	68.1	177
159	Replication of Mesoporous Aluminosilicate Molecular Sieves (RMMs) with Zeolite Framework from Mesoporous Carbons (CMKs). <i>Chemistry of Materials</i> , 2004 , 16, 3168-3175	9.6	164
158	Discernment and Quantification of Internal and External Acid Sites on Zeolites. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 4462-4469	3.4	153
157	A solid-state NMR, FT-IR and TPD study on acid properties of sulfated and metal-promoted zirconia: Influence of promoter and sulfation treatment. <i>Catalysis Today</i> , 2006 , 116, 111-120	5.3	152
156	Boron Environments in B-Doped and (B, N)-Codoped TiO ₂ Photocatalysts: A Combined Solid-State NMR and Theoretical Calculation Study. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 2709-2719	3.8	148
155	Acidic Properties and Structure-Activity Correlations of Solid Acid Catalysts Revealed by Solid-State NMR Spectroscopy. <i>Accounts of Chemical Research</i> , 2016 , 49, 655-63	24.3	143
154	Fabrication and Characterization of Well-Dispersed and Highly Stable PtRu Nanoparticles on Carbon Mesoporous Material for Applications in Direct Methanol Fuel Cell. <i>Chemistry of Materials</i> , 2008 , 20, 1622-1628	9.6	126
153	Theoretical predictions of ³¹ p NMR chemical shift threshold of trimethylphosphine oxide absorbed on solid acid catalysts. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 4496-505	3.4	123
152	Palladium Nanoparticle Incorporated Porous Activated Carbon: Electrochemical Detection of Toxic Metal Ions. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1319-26	9.5	110
151	Nickel Nanoparticle-Decorated Porous Carbons for Highly Active Catalytic Reduction of Organic Dyes and Sensitive Detection of Hg(II) Ions. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24810-21	9.5	101
150	Counterion Effect in Acid Synthesis of Mesoporous Silica Materials. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 7885-7894	3.4	100
149	Stability Enhancement of H-Mordenite in Dimethyl Ether Carbonylation to Methyl Acetate by Pre-adsorption of Pyridine. <i>Chinese Journal of Catalysis</i> , 2010 , 31, 729-738	11.3	97
148	Controlled synthesis of highly dispersed platinum nanoparticles in ordered mesoporous carbons. <i>Chemical Communications</i> , 2006 , 3435-7	5.8	96
147	Structural evolution and electrocatalytic application of nitrogen-doped carbon shells synthesized by pyrolysis of near-monodisperse polyaniline nanospheres. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5985		91

146	Probing the Spatial Proximities among Acid Sites in Dealuminated H-Y Zeolite by Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 14486-14494	3.8	91
145	Biomass-Derived Activated Carbon Supported Fe ₃ O ₄ Nanoparticles as Recyclable Catalysts for Reduction of Nitroarenes. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 6772-6782	8.3	91
144	Acidic Strengths of Brønsted and Lewis Acid Sites in Solid Acids Scaled by ³¹ P NMR Chemical Shifts of Adsorbed Trimethylphosphine. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7660-7667	3.8	85
143	³¹ P chemical shift of adsorbed trialkylphosphine oxides for acidity characterization of solid acids catalysts. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 7349-56	2.8	79
142	Functionalized Silica Matrices and Palladium: A Versatile Heterogeneous Catalyst for Suzuki, Heck, and Sonogashira Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 6357-6376	8.3	74
141	Electrochemical detection of 4-nitrophenol based on biomass derived activated carbons. <i>Analytical Methods</i> , 2014 , 6, 5274	3.2	74
140	Highly stable and active palladium nanoparticles supported on porous carbon for practical catalytic applications. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16015-16022	13	72
139	Highly Stable Amine-modified Mesoporous Silica Materials for Efficient CO ₂ Capture. <i>Topics in Catalysis</i> , 2010 , 53, 210-217	2.3	70
138	Fabrication and electrocatalytic performance of highly stable and active platinum nanoparticles supported on nitrogen-doped ordered mesoporous carbons for oxygen reduction reaction. <i>Journal of Materials Chemistry</i> , 2011 , 21, 12489		66
137	Biomass Derived Sheet-like Carbon/Palladium Nanocomposite: An Excellent Opportunity for Reduction of Toxic Hexavalent Chromium. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 5302-5312	8.3	62
136	Origin and Structural Characteristics of Tri-coordinated Extra-framework Aluminum Species in Dealuminated Zeolites. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10764-10774	16.4	61
135	Functional porous carbon-ZnO nanocomposites for high-performance biosensors and energy storage applications. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16466-75	3.6	58
134	¹⁹ F Chemical Shift of Crystalline Metal Fluorides: Theoretical Predictions Based on Periodic Structure Models. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 15018-15023	3.8	57
133	Effects of surface modification on coking, deactivation and para-selectivity of H-ZSM-5 zeolites during ethylbenzene disproportionation. <i>Journal of Molecular Catalysis A</i> , 2002 , 181, 41-55		56
132	Distribution of cations in lanthanum-exchanged NaY zeolites. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991 , 87, 2855		55
131	Heteropolyacid-based ionic liquids as efficient homogeneous catalysts for acetylation of glycerol. <i>Journal of Catalysis</i> , 2014 , 320, 42-51	7.3	52
130	Efficient and reusable polyoxometalate-based sulfonated ionic liquid catalysts for palmitic acid esterification to biodiesel. <i>Chemical Engineering Science</i> , 2013 , 104, 64-72	4.4	51
129	Combined Solid-State NMR and Theoretical Calculation Studies of Brønsted Acid Properties in Anhydrous 12-Molybdophosphoric Acid. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15464-15472	3.8	50

128	On the Regeneration of Coked H-ZSM-5 Catalysts. <i>Journal of Catalysis</i> , 1998 , 174, 210-218	7.3	50
127	Hydrothermal synthesis of NiWO ₄ crystals for high performance non-enzymatic glucose biosensors. <i>Scientific Reports</i> , 2016 , 6, 24128	4.9	49
126	Incorporation of C60 in Layered Double Hydroxide. <i>Journal of the American Chemical Society</i> , 1996 , 118, 4411-4418	16.4	49
125	Acidity characterization of heterogeneous catalysts by solid-state NMR spectroscopy using probe molecules. <i>Solid State Nuclear Magnetic Resonance</i> , 2013 , 55-56, 12-27	3.1	48
124	Electrochemical activity and durability of platinum nanoparticles supported on ordered mesoporous carbons for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 8149-8154	6.7	48
123	Syntheses of novel halogen-free Brønsted-Lewis acidic ionic liquid catalysts and their applications for synthesis of methyl caprylate. <i>Green Chemistry</i> , 2015 , 17, 499-508	10	47
122	Porous carbon-modified electrodes as highly selective and sensitive sensors for detection of dopamine. <i>Analyst</i> , 2014 , 139, 4994-5000	5	47
121	NiCo ₂ O ₄ -decorated porous carbon nanosheets for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2017 , 247, 288-295	6.7	45
120	Heteroatom-enriched porous carbon/nickel oxide nanocomposites as enzyme-free highly sensitive sensors for detection of glucose. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 1384-1390	8.5	45
119	Hollow spheres of MCM-41 aluminosilicate with pinholes. <i>Chemical Communications</i> , 2001 , 1970-1	5.8	44
118	Effect of Cation Substitution on the Adsorption of Xenon on Zeolite NaY and on the Xenon-129 Chemical Shifts. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 4393-4401		42
117	Selectivity improvement in xylene isomerization. <i>Microporous and Mesoporous Materials</i> , 2004 , 72, 81-89	5.3	41
116	Functional porous carbon/nickel oxide nanocomposites as binder-free electrodes for supercapacitors. <i>Chemistry - A European Journal</i> , 2015 , 21, 8200-6	4.8	40
115	Ruthenium nanoparticles decorated curl-like porous carbons for high performance supercapacitors. <i>Scientific Reports</i> , 2016 , 6, 19949	4.9	40
114	New insights into Keggin-type 12-tungstophosphoric acid from ³¹ P MAS NMR analysis of adsorbed trimethylphosphine oxide and DFT calculations. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 137-48	4.5	40
113	Metal zeolites for transalkylation of toluene and heavy aromatics. <i>Catalysis Today</i> , 2002 , 73, 39-47	5.3	40
112	A direct surface silyl modification of acid-synthesized mesoporous silica. <i>New Journal of Chemistry</i> , 2000 , 24, 253-255	3.6	40
111	The effect of alkan-1-ols addition on the structural ordering and morphology of mesoporous silicate MCM-41. <i>Journal of Materials Chemistry</i> , 1999 , 9, 1197-1201		40

110	Improvement of coke-induced selectivation of H-ZSM-5 during xylene isomerization. <i>Microporous and Mesoporous Materials</i> , 2001 , 47, 67-77	5.3	38
109	Amino acid-functionalized heteropolyacids as efficient and recyclable catalysts for esterification of palmitic acid to biodiesel. <i>Fuel</i> , 2016 , 165, 115-122	7.1	37
108	Excitations in incommensurate biphenyl: Proton spin-lattice relaxation. <i>Physical Review Letters</i> , 1985 , 54, 1287-1290	7.4	37
107	Well-dispersed rhenium nanoparticles on three-dimensional carbon nanostructures: Efficient catalysts for the reduction of aromatic nitro compounds. <i>Journal of Colloid and Interface Science</i> , 2017 , 506, 271-282	9.3	36
106	Facile and novel synthesis of palladium nanoparticles supported on a carbon aerogel for ultrasensitive electrochemical sensing of biomolecules. <i>Nanoscale</i> , 2017 , 9, 6486-6496	7.7	35
105	Ruthenium Nanoparticles Decorated Tungsten Oxide as a Bifunctional Catalyst for Electrocatalytic and Catalytic Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 31794-31805	9.5	35
104	Highly stable ruthenium nanoparticles on 3D mesoporous carbon: an excellent opportunity for reduction reactions. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23448-23457	13	34
103	Highly nitrogen-doped mesoscopic carbons as efficient metal-free electrocatalysts for oxygen reduction reactions. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20030-20037	13	34
102	Enhanced para-Selectivity by Selective Coking during Toluene Disproportionation over H ₂ ZSM-5 Zeolite. <i>Journal of Catalysis</i> , 1999 , 185, 33-42	7.3	34
101	Carbon aerogel supported palladium-ruthenium nanoparticles for electrochemical sensing and catalytic reduction of food dye. <i>Sensors and Actuators B: Chemical</i> , 2018 , 257, 48-59	8.5	34
100	Syntheses of carbon porous materials with varied pore sizes and their performances as catalyst supports during methanol oxidation reaction. <i>Applied Energy</i> , 2012 , 100, 66-74	10.7	33
99	Enhancement of Brønsted acidity in zeolitic catalysts due to an intermolecular solvent effect in confined micropores. <i>Chemical Communications</i> , 2012 , 48, 6936-8	5.8	33
98	Heteropolyacid-based ionic liquids as effective catalysts for the synthesis of benzaldehyde glycol acetal. <i>Applied Catalysis A: General</i> , 2014 , 485, 149-156	5.1	31
97	Influence of the Al source and synthesis of ordered Al-SBA-15 hexagonal particles with nanostairs and terraces. <i>Langmuir</i> , 2005 , 21, 2078-85	4	31
96	Vapor phase Beckmann rearrangement of cyclohexanone oxime over MCM-22. <i>Applied Catalysis A: General</i> , 2004 , 267, 87-94	5.1	31
95	Chemoselectivity during propene hydrogenation reaction over H-ZSM-5 zeolite: Insights from theoretical calculations. <i>Microporous and Mesoporous Materials</i> , 2009 , 121, 158-165	5.3	30
94	Cajeput tree bark derived activated carbon for the practical electrochemical detection of vanillin. <i>New Journal of Chemistry</i> , 2015 , 39, 9109-9115	3.6	29
93	Progress in development and application of solid-state NMR for solid acid catalysis. <i>Chinese Journal of Catalysis</i> , 2013 , 34, 436-491	11.3	29

92	Roles of Carrier Gases on Deactivation and Coking in Zeolite Beta during Cumene Disproportionation. <i>Journal of Catalysis</i> , 1996 , 163, 436-446	7.3	29
91	N.m.r. investigation of benzene adsorption on a dehydrated NaY zeolite. <i>Zeolites</i> , 1992 , 12, 86-94		29
90	Spectral editing based on selective excitation and Lee-Goldburg cross-polarization under magic angle spinning. <i>Solid State Nuclear Magnetic Resonance</i> , 2006 , 29, 272-7	3.1	28
89	Gold nanoparticles supported on periodic mesoporous organosilicas for epoxidation of olefins: Effects of pore architecture and surface modification method of the supports. <i>Microporous and Mesoporous Materials</i> , 2011 , 143, 426-434	5.3	27
88	EPR and NMR Studies of Coke Induced Selectivation over H ₂ SM-5 Zeolite during Ethylbenzene Disproportionation Reaction. <i>Journal of Catalysis</i> , 1999 , 184, 29-38	7.3	26
87	(13)C shielding tensors of crystalline amino acids and peptides: Theoretical predictions based on periodic structure models. <i>Journal of Computational Chemistry</i> , 2009 , 30, 222-35	3.5	25
86	39 Qualitative and quantitative determination of acid sites on solid acid catalysts. <i>Studies in Surface Science and Catalysis</i> , 2003 , 205-209	1.8	25
85	Porous carbon-NiO nanocomposites for amperometric detection of hydrazine and hydrogen peroxide. <i>Mikrochimica Acta</i> , 2019 , 186, 59	5.8	24
84	Structure and acidity of Mo/H-MCM-22 catalysts studied by NMR spectroscopy. <i>Catalysis Today</i> , 2004 , 97, 25-34	5.3	24
83	Combined translational-rotational jumps in solid ¹³ CO. <i>Physical Review B</i> , 1984 , 30, 24-31	3.3	24
82	Hyperpolarized 129Xe NMR investigation of multifunctional organic/inorganic hybrid mesoporous silica materials. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 3080-7	3.6	23
81	EPR and 129Xe NMR Studies of Copper-Exchanged NaY Zeolites. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 8277-8282		23
80	Capture of carbon dioxide by polyamine-immobilized mesostructured silica: A solid-state NMR study. <i>Microporous and Mesoporous Materials</i> , 2017 , 238, 2-13	5.3	22
79	Hydrocracking in Al-MCM-41: diffusion effect. <i>Microporous and Mesoporous Materials</i> , 2003 , 66, 209-218	5.3	22
78	Solid-state P NMR mapping of active centers and relevant spatial correlations in solid acid catalysts. <i>Nature Protocols</i> , 2020 , 15, 3527-3555	18.8	22
77	Acidity-activity correlation over bimetallic iron-based ZSM-5 catalysts during selective catalytic reduction of NO by NH ₃ . <i>Journal of Molecular Catalysis A</i> , 2016 , 423, 423-432		22
76	Ordered mesoporous carbon supported bifunctional PtM (M = Ru, Fe, Mo) electrocatalysts for a fuel cell anode. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 43-53	11.3	21
75	Fe ₂ O ₃ /SBA-15 catalyst synthesized by chemical vapor infiltration for Friedel-Crafts alkylation reaction. <i>Microporous and Mesoporous Materials</i> , 2009 , 123, 306-313	5.3	21

74	Molecular rotations in CO/N ₂ /Ar quadrupole glass: Dielectric study. <i>Solid State Communications</i> , 1984 , 49, 177-182	1.6	21
73	Transesterification of soybean oil to biodiesel by tin-based Brønsted-Lewis acidic ionic liquid catalysts. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 2063-2072	2.8	20
72	Metal Supported Zeolite for Heavy Aromatics Transalkylation Process. <i>Catalysis Surveys From Asia</i> , 2009 , 13, 94-103	2.8	19
71	Sol-Gel Synthesis of Carbon-Coated LaCoO ₃ for Effective Electrocatalytic Oxidation of Salicylic Acid. <i>ChemElectroChem</i> , 2017 , 4, 935-940	4.3	18
70	Kinetics of toluene disproportionation over fresh and coked H-mordenite. <i>Catalysis Today</i> , 2004 , 97, 297-302	5.9	18
69	Effects of binder, coking and regeneration on acid properties of H-mordenite during TDP reaction. <i>Research on Chemical Intermediates</i> , 2003 , 29, 761-772	2.8	18
68	The Synthesis and Application of the Mesoporous Molecular Sieves MCM-41 A Review. <i>Journal of the Chinese Chemical Society</i> , 1999 , 46, 495-507	1.5	18
67	Acidity Characterization of Solid Acid Catalysts by Solid-State ³¹ P NMR of Adsorbed Phosphorus-Containing Probe Molecules. <i>Annual Reports on NMR Spectroscopy</i> , 2014 , 81, 47-108	1.7	17
66	Enantioselective addition of diethylzinc to benzaldehyde over mesoporous SBA-15 functionalized with chiral proline derivatives. <i>Applied Catalysis A: General</i> , 2009 , 359, 96-107	5.1	17
65	From One to Two: Acidic Proton Spatial Networks in Porous Zeolite Materials. <i>Chemistry of Materials</i> , 2020 , 32, 1332-1342	9.6	16
64	Acidity and alkylation activity of 12-tungstophosphoric acid supported on ionic liquid-functionalized SBA-15. <i>Catalysis Today</i> , 2019 , 327, 10-18	5.3	16
63	Post-synthesis treatment of acid-made mesoporous silica materials by ammonia hydrothermal process. <i>Microporous and Mesoporous Materials</i> , 2001 , 44-45, 129-137	5.3	16
62	Roles of Amine Additives and Gel Aging on the Synthesis of AlPO ₄ Molecular Sieves. <i>Chemistry of Materials</i> , 1994 , 6, 633-635	9.6	16
61	Selective catalytic synthesis of glycerol monolaurate over silica gel-based sulfonic acid functionalized ionic liquid catalysts. <i>Chemical Engineering Journal</i> , 2019 , 359, 733-745	14.7	16
60	Transition-metal incorporated heteropolyacid-ionic liquid composite catalysts with tunable Brønsted/Lewis acidity for acetalization of benzaldehyde with ethylene glycol. <i>Applied Catalysis A: General</i> , 2017 , 543, 115-124	5.1	15
59	Poly(amido amine) dendrimer-incorporated organoclays as efficient adsorbents for capture of NH ₃ and CO ₂ . <i>Chemical Engineering Journal</i> , 2017 , 312, 118-125	14.7	15
58	Acidity and Catalytic Behaviors of Ordered Mesoporous Aluminosilicate Materials Containing Zeolite Building Units. <i>Catalysis Letters</i> , 2006 , 108, 173-178	2.8	15
57	High loading of C ₆₀ in nanochannels of mesoporous MCM-41 materials. <i>Microporous and Mesoporous Materials</i> , 2003 , 57, 199-209	5.3	15

56	Pulsed Transient Nutation Experiments of the Photo-Excited Triplet State. <i>Journal of Magnetic Resonance Series A</i> , 1995 , 117, 9-15		15
55	Fabrication of CNTs with controlled diameters and their applications as electrocatalyst supports for DMFC. <i>Diamond and Related Materials</i> , 2011 , 20, 343-350	3.5	14
54	Calcium-Incorporated Mesoporous Aluminosilicates: Synthesis, Characterization, and Applications to the Condensation of Long-Chain Fatty Acid with Long-Chain Amine and Alcohol. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 65-71	3.9	14
53	Chirality inversion in enantioselective hydrogenation of isophorone over Pd/MgO catalysts in the presence of (S)-proline: Effect of Pd particle size. <i>Journal of Molecular Catalysis A</i> , 2009 , 304, 88-94		14
52	Highly stable aluminosilicates with a dual pore system: Simultaneous formation of meso- and microporosities with zeolitic BEA building units. <i>Microporous and Mesoporous Materials</i> , 2010 , 133, 82-90	5.3	14
51	Probing the alkyl ligands on silylated mesoporous MCM-41 using hyperpolarized ^{129}Xe NMR spectroscopy. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 681-4	3.4	14
50	Coking and Deactivation of H-ZSM-5 Zeolites during Ethylbenzene Disproportionation: I. Formation and Location of Coke. <i>Journal of the Chinese Chemical Society</i> , 1996 , 43, 305-313	1.5	14
49	Solid-state synthesis of mesoporous MFI zeolite from self-bonded silica pellets. <i>Catalysis Today</i> , 2013 , 204, 30-37	5.3	13
48	On the Confinement Effect During Catalytic Reaction Over Al-MCM-41. <i>Topics in Catalysis</i> , 2009 , 52, 2-11	2.3	13
47	Template-assisted synthesis of mesoporous tubular carbon nanostructure by chemical vapor infiltration method. <i>Thin Solid Films</i> , 2006 , 498, 193-197	2.2	13
46	Acidity characterization of MCM-41 materials using solid-state NMR spectroscopy. <i>Studies in Surface Science and Catalysis</i> , 2002 , 141, 453-458	1.8	13
45	Novel Keggin-type H ₄ PVMo ₁₁ O ₄₀ -based ionic liquid catalysts for n-caprylic acid esterification. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 58, 203-209	5.3	12
44	Capturing the Local Adsorption Structures of Carbon Dioxide in Polyamine-Impregnated Mesoporous Silica Adsorbents. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3183-7	6.4	12
43	Regioselectivity of carbonium ion transition states in zeolites. <i>Catalysis Today</i> , 2011 , 164, 40-45	5.3	12
42	Adsorption of lysozyme on spherical mesoporous carbons (SMCs) replicated from colloidal silica arrays by chemical vapor deposition. <i>Journal of Colloid and Interface Science</i> , 2009 , 339, 439-45	9.3	12
41	^{129}Xe Nuclear magnetic resonance study on a solid-state defect in HZSM-5 zeolite. <i>Microporous Materials</i> , 1995 , 4, 59-64		11
40	NMR in high-pressure phases of solid NH ₃ and ND ₃ . <i>Physical Review B</i> , 1986 , 33, 14-21	3.3	11
39	Silver Nanoparticles Modified Graphitic Carbon Nitride Nanosheets as a Significant Bifunctional Material for Practical Applications. <i>ChemistrySelect</i> , 2017 , 2, 1398-1408	1.8	10

38	Generation of the precursor species in the synthesis of AlPO ₄ molecular sieves. <i>Microporous Materials</i> , 1995 , 4, 391-394		9
37	Carbon/Boron core-shell microspheres for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12987-12994	13	8
36	Ionic Liquid/Silicotungstic Acid Composites as Efficient and Recyclable Catalysts for the Selective Esterification of Glycerol with Lauric Acid to Monolaurin. <i>ChemCatChem</i> , 2017 , 9, 2727-2738	5.2	8
35	Effect of pore size on the adsorption of xenon on mesoporous MCM-41 and on the ¹²⁹ Xe NMR chemical shifts: a variable temperature study. <i>Studies in Surface Science and Catalysis</i> , 2000 , 517-524	1.8	8
34	Heteronuclear dipolar recoupling of half-integer quadrupole nuclei under fast magic angle spinning. <i>Solid State Nuclear Magnetic Resonance</i> , 2009 , 36, 110-7	3.1	7
33	Effect of Temperature Gradient Direction in the Catalyst Nanoparticle on CNTs Growth Mode. <i>Nanoscale Research Letters</i> , 2010 , 5, 1393-1402	5	7
32	Effects of Lanthanum Incorporation on Stability, Acidity and Catalytic Performance of Y Zeolites. <i>Catalysis Letters</i> , 2021 , 151, 698-712	2.8	7
31	Study on optimum base-treatment of mordenite for catalytic alkylbenzene transalkylation. <i>Catalysis Today</i> , 2016 , 259, 423-429	5.3	6
30	Role of acidity over rare earth metal ion-exchanged heteropoly tungstates during oxidation of alcohols. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 70, 23-31	5.3	6
29	Gel Chemistry in Synthesis of AlPO ₄ Molecular Sieves. <i>Journal of the Chinese Chemical Society</i> , 1995 , 42, 537-542	1.5	6
28	Heterogeneous amino acid-based tungstophosphoric acids as efficient and recyclable catalysts for selective oxidation of benzyl alcohol. <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 1914-1923	2.8	5
27	Roles of organic acids during electrooxidation reaction over Pt-supported carbon electrodes in direct methanol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 12984-12990	6.7	5
26	Zeolite ZSM-5 Supported Bimetallic Fe-Based Catalysts for Selective Catalytic Reduction of NO: Effects of Acidity and Metal Loading. <i>Advanced Porous Materials</i> , 2016 , 4, 189-199		5
25	Nitrogen and high oxygen-containing metal-free porous carbon nanosheets for supercapacitor and oxygen reduction reaction applications. <i>Nano Express</i> , 2020 , 1, 010036	2	4
24	Highly Stable Mesoporous Aluminosilicates with a Dual Pore System: Simultaneous Formation of Mesophase with Zeolitic Building Units. <i>Chemistry Letters</i> , 2009 , 38, 548-549	1.7	4
23	Synergism of acidic zeolite and Pt/zeolite in aromatics transalkylation. <i>Studies in Surface Science and Catalysis</i> , 2008 , 1183-1186	1.8	4
22	Acidity characterization of H-ZSM-5 catalysts modified by pre-coking and silylation. <i>Studies in Surface Science and Catalysis</i> , 2004 , 154, 2269-2274	1.8	4
21	Effects of Si/Al Ratio and Pore Size on Cracking Reaction over Mesoporous MCM-41. <i>Studies in Surface Science and Catalysis</i> , 2002 , 537-542	1.8	4

20	Variable temperature ^{129}Xe NMR studies of xenon adsorbed on mesoporous MCM-41 molecular sieves. <i>Studies in Surface Science and Catalysis</i> , 1998 , 543-550	1.8	4
19	Acidity of Solid and Liquid Acids Probed by P-31 NMR Chemical Shifts of Phosphine Oxides. <i>Journal of Analytical Science and Technology</i> , 2011 , 2, A155-A158	3.4	4
18	Highly Active Silver ion-Exchanged Silicotungstic Acid Catalysts for Selective Esterification of Glycerol with Lauric Acid. <i>Catalysis Letters</i> , 2020 , 150, 3584-3597	2.8	4
17	Hollowed carbon capsule based Pt η e/carbon electrocatalysts prepared by chemical vapor infiltration method. <i>Diamond and Related Materials</i> , 2008 , 17, 1541-1544	3.5	3
16	Characterization of nanoporous structures of polyphenylene oxide derived carbon membranes by means of ^{129}Xe NMR. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3932-7	1.3	3
15	NMR Studies of Benzene Adsorbed on Synthetic Faujasite-Type Zeolites. <i>Collection of Czechoslovak Chemical Communications</i> , 1992 , 57, 718-732		3
14	Pore Engineering of Zeolites and Their Perspective Applications in Aromatics Conversion. <i>Current Organic Chemistry</i> , 2014 , 18, 1323-1334	1.7	3
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10	Dynamic nuclear polarization in pulsed ENDOR experiments. <i>Journal of Magnetic Resonance</i> , 1999 , 137, 25-8	3	2
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7	Replication of Bimodal Porous Carbon Material from Mesoporous/Microporous Aluminosilicate Composite. <i>Nanoscience and Nanotechnology Letters</i> , 2011 , 3, 788-793	0.8	2
6	Selective mono-alkylbenzene disproportionation over silylated MFI zeolite. <i>Catalysis Today</i> , 2020 , 388-389, 134-134	5.3	2
5	Acidity characterization of solid acid catalysts by solid-state ^{31}P NMR of adsorbed phosphorus-containing probe molecules: An update. <i>Annual Reports on NMR Spectroscopy</i> , 2020 , 65-149	1.7	1
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