

Raul F Lobo

List of Publications by Year in descending order

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161
papers

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citations

26630

56
h-index

29157

104
g-index

165
all docs

165
docs citations

165
times ranked

9805
citing authors

#	ARTICLE	IF	CITATIONS
1	Zeolite and molecular sieve synthesis. Chemistry of Materials, 1992, 4, 756-768.	6.7	1,362
2	The ammonia selective catalytic reduction activity of copper-exchanged small-pore zeolites. Applied Catalysis B: Environmental, 2011, 102, 441-448.	20.2	569
3	Cycloaddition of Biomass-Derived Furans for Catalytic Production of Renewable <i>p</i> -Xylene. ACS Catalysis, 2012, 2, 935-939.	11.2	400
4	Unconventional, Highly Selective CO ₂ Adsorption in Zeolite SSZ-13. Journal of the American Chemical Society, 2012, 134, 1970-1973.	13.7	363
5	Metalloenzyme-like catalyzed isomerizations of sugars by Lewis acid zeolites. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9727-9732.	7.1	354
6	Copper Coordination in Cu-SSZ-13 and Cu-SSZ-16 Investigated by Variable-Temperature XRD. Journal of Physical Chemistry C, 2010, 114, 1633-1640.	3.1	342
7	Production of renewable jet fuel range alkanes and commodity chemicals from integrated catalytic processing of biomass. Energy and Environmental Science, 2014, 7, 1500-1523.	30.8	342
8	Xylose Isomerization to Xylulose and its Dehydration to Furfural in Aqueous Media. ACS Catalysis, 2011, 1, 1724-1728.	11.2	301
9	SiO ₂ .HOSi Hydrogen Bonds in As-Synthesized High-Silica Zeolites. The Journal of Physical Chemistry, 1995, 99, 12588-12596.	2.9	233
10	Formation of [Cu ₂ O] ²⁺ and [Cu ₂ O] ²⁺ toward C-H Bond Activation in Cu-SSZ-13 and Cu-SSZ-39. ACS Catalysis, 2017, 7, 4291-4303.	11.2	195
11	Characterization of the Extra-Large-Pore Zeolite UTD-1. Journal of the American Chemical Society, 1997, 119, 8474-8484.	13.7	168
12	SSZ-26 and SSZ-33: Two Molecular Sieves with Intersecting 10- and 12-Ring Pores. Science, 1993, 262, 1543-1546.	12.6	165
13	Structure of the Silica Phase Extracted from Silica/(TPA)OH Solutions Containing Nanoparticles. Journal of Physical Chemistry B, 2003, 107, 10006-10016.	2.6	164
14	Carbon Dioxide and Nitrogen Adsorption on Cation-Exchanged SSZ-13 Zeolites. Langmuir, 2013, 29, 832-839.	3.5	152
15	Bimetallic effects in the hydrodeoxygenation of meta-cresol on γ -Al ₂ O ₃ supported Pt-Ni and Pt-Co catalysts. Green Chemistry, 2012, 14, 1388.	9.0	149
16	A DFT study of the acid-catalyzed conversion of 2,5-dimethylfuran and ethylene to <i>p</i> -xylene. Journal of Catalysis, 2013, 297, 35-43.	6.2	139
17	Probing Lewis Acid Sites in Sn-Beta Zeolite. ACS Catalysis, 2013, 3, 573-580.	11.2	137
18	CIT-1: A New Molecular Sieve with Intersecting Pores Bounded by 10- and 12-Rings. Journal of the American Chemical Society, 1995, 117, 3766-3779.	13.7	136

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19	Characterization and catalytic properties of MCM-56 and MCM-22 zeolites. <i>Microporous and Mesoporous Materials</i> , 2000, 40, 9-23.	4.4	136
20	Spontaneous Formation of Silica Nanoparticles in Basic Solutions of Small Tetraalkylammonium Cations. <i>Journal of Physical Chemistry B</i> , 2004, 108, 12271-12275.	2.6	136
21	The Role of Ru and RuO ₂ in the Catalytic Transfer Hydrogenation of 5-Hydroxymethylfurfural for the Production of 2,5-Dimethylfuran. <i>ChemCatChem</i> , 2014, 6, 848-856.	3.7	136
22	Elucidation of Diels-Alder Reaction Network of 2,5-Dimethylfuran and Ethylene on HY Zeolite Catalyst. <i>ACS Catalysis</i> , 2013, 3, 41-46.	11.2	131
23	Comparison of Homogeneous and Heterogeneous Catalysts for Glucose-to-Fructose Isomerization in Aqueous Media. <i>ChemSusChem</i> , 2013, 6, 2369-2376.	6.8	128
24	Lewis acidic zeolite Beta catalyst for the Meerwein-Ponndorf-Verley reduction of furfural. <i>Catalysis Science and Technology</i> , 2016, 6, 3018-3026.	4.1	125
25	The Synergy of the Support Acid Function and the Metal Function in the Catalytic Hydrodeoxygenation of m-Cresol. <i>Topics in Catalysis</i> , 2012, 55, 118-128.	2.8	123
26	Physical Basis for the Formation and Stability of Silica Nanoparticles in Basic Solutions of Monovalent Cations. <i>Langmuir</i> , 2005, 21, 8960-8971.	3.5	120
27	Renewable p-Xylene from 2,5-Dimethylfuran and Ethylene Using Phosphorus-Containing Zeolite Catalysts. <i>ChemCatChem</i> , 2017, 9, 398-402.	3.7	118
28	Renewable production of phthalic anhydride from biomass-derived furan and maleic anhydride. <i>Green Chemistry</i> , 2014, 16, 167-175.	9.0	114
29	Formation and Structure of Self-Assembled Silica Nanoparticles in Basic Solutions of Organic and Inorganic Cations. <i>Langmuir</i> , 2005, 21, 5197-5206.	3.5	104
30	Kinetic and Thermodynamic Studies of Silica Nanoparticle Dissolution. <i>Chemistry of Materials</i> , 2007, 19, 4189-4197.	6.7	104
31	Cascade of Liquid-Phase Catalytic Transfer Hydrogenation and Etherification of 5-Hydroxymethylfurfural to Potential Biodiesel Components over Lewis Acid Zeolites. <i>ChemCatChem</i> , 2014, 6, 508-513.	3.7	104
32	Multiple-Quantum ¹ H MAS NMR Studies of Defect Sites in As-Made All-Silica ZSM-12 Zeolite. <i>Journal of the American Chemical Society</i> , 2000, 122, 6659-6663.	13.7	103
33	A Model for the Structure of the Large-Pore Zeolite SSZ-31. <i>Journal of the American Chemical Society</i> , 1997, 119, 3732-3744.	13.7	100
34	MCM-47: A Highly Crystalline Silicate Composed of Hydrogen-Bonded Ferrierite Layers. <i>Chemistry of Materials</i> , 2000, 12, 2936-2942.	6.7	98
35	Cation-induced transformation of boron-coordination in zeolites. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 3091-3098.	2.8	92
36	Diels-Alder and Dehydration Reactions of Biomass-Derived Furan and Acrylic Acid for the Synthesis of Benzoic Acid. <i>ACS Catalysis</i> , 2015, 5, 6946-6955.	11.2	91

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37	Ethane and ethylene aromatization on zinc-containing zeolites. <i>Catalysis Science and Technology</i> , 2017, 7, 3562-3572.	4.1	91
38	ZKâ€5: A CO ₂ -selective Zeolite with High Working Capacity at Ambient Temperature and Pressure. <i>ChemSusChem</i> , 2012, 5, 2237-2242.	6.8	88
39	Challenges of and Insights into Acid-Catalyzed Transformations of Sugars. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22815-22833.	3.1	88
40	Evolution of Self-Assembled Silica-Tetrapropylammonium Nanoparticles at Elevated Temperatures. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12762-12771.	2.6	86
41	Catalytic dehydrogenation of propane over iron-silicate zeolites. <i>Journal of Catalysis</i> , 2014, 312, 263-270.	6.2	85
42	Experimental and computational studies on the adsorption of CO ₂ and N ₂ on pure silica zeolites. <i>Microporous and Mesoporous Materials</i> , 2014, 185, 157-166.	4.4	83
43	Photocatalytic degradation of organic molecules on mesoporous visible-light-active Sn(II)-doped titania. <i>Journal of Catalysis</i> , 2011, 281, 156-168.	6.2	82
44	Molecular Basis for the High CO ₂ Adsorption Capacity of Chabazite Zeolites. <i>ChemSusChem</i> , 2014, 7, 3031-3038.	6.8	81
45	Fe ³⁺ -Al ₂ O ₃ and Fe ^K -Al ₂ O ₃ as reverse water-gas shift catalysts. <i>Catalysis Science and Technology</i> , 2016, 6, 5267-5279.	4.1	81
46	Silica Self-Assembly and Synthesis of Microporous and Mesoporous Silicates. <i>Chemistry - A European Journal</i> , 2006, 12, 2926-2934.	3.3	79
47	K ²⁺ -Detected XANES of Framework-Substituted FeZSM-5 Zeolites. <i>Journal of Physical Chemistry B</i> , 2004, 108, 10002-10011.	2.6	77
48	Physicochemical Characterization of Zeolites SSZ-26 and SSZ-33. <i>The Journal of Physical Chemistry</i> , 1994, 98, 12040-12052.	2.9	70
49	Direct conversion of CO ₂ into methanol over promoted indium oxide-based catalysts. <i>Applied Catalysis A: General</i> , 2019, 583, 117144.	4.3	69
50	Nanoparticle Precursors and Phase Selectivity in Hydrothermal Synthesis of Zeolite Î ² . <i>Chemistry of Materials</i> , 2008, 20, 5807-5815.	6.7	68
51	Effect of water treatment on Sn-BEA zeolite: Origin of 960 cm ⁻¹ FTIR peak. <i>Microporous and Mesoporous Materials</i> , 2015, 210, 69-76.	4.4	66
52	New Description of the Disorder in Zeolite ZSM-48. <i>Journal of the American Chemical Society</i> , 2002, 124, 13222-13230.	13.7	65
53	High-Temperature Dehydrogenation of Brønsted Acid Sites in Zeolites. <i>Journal of the American Chemical Society</i> , 2008, 130, 2460-2462.	13.7	64
54	Tunable Oleo-Furan Surfactants by Acylation of Renewable Furans. <i>ACS Central Science</i> , 2016, 2, 820-824.	11.3	64

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55	A simple model describes the PDF of a non-graphitizing carbon. Carbon, 2004, 42, 2041-2048.	10.3	63
56	Synthesis and characterization of pure-silica and boron-substituted SSZ-24 using N(16) methylspertheinium bromide as structure-directing agent. Microporous Materials, 1994, 3, 61-69.	1.6	61
57	Synthesis and Rietveld Refinement of the Small-Pore Zeolite SSZ-16. Chemistry of Materials, 1996, 8, 2409-2411.	6.7	58
58	Porous amorphous carbon models from periodic Gaussian chains of amorphous polymers. Carbon, 2005, 43, 3099-3111.	10.3	57
59	Variable anchoring of boron in zeolite beta. Microporous and Mesoporous Materials, 2005, 79, 215-224.	4.4	56
60	Low temperature catalytic NO oxidation over microporous materials. Journal of Catalysis, 2014, 311, 412-423.	6.2	55
61	Synthesis, characterization and photocatalytic properties of novel zinc germanate nano-materials. Journal of Solid State Chemistry, 2011, 184, 1054-1062.	2.9	52
62	Guest-Host Interactions in As-Made Al-ZSM-12: Implications for the Synthesis of Zeolite Catalysts. Journal of Physical Chemistry B, 1999, 103, 10858-10865.	2.6	51
63	$\text{SnO}_x \text{ZnGa}_2\text{O}_4$ Photocatalysts with Enhanced Visible Light Activity. ACS Catalysis, 2011, 1, 923-928.	11.2	51
64	Zeolite beta mechanisms of nucleation and growth. Microporous and Mesoporous Materials, 2011, 142, 104-115.	4.4	51
65	NMR and SAXS Analysis of Connectivity of Aluminum and Silicon Atoms in the Clear Sol Precursor of SSZ-13 Zeolite. Chemistry of Materials, 2012, 24, 571-578.	6.7	51
66	Structure and Colloidal Stability of Nanosized Zeolite Beta Precursors. Langmuir, 2010, 26, 1260-1270.	3.5	47
67	A pair distribution function analysis of zeolite beta. Microporous and Mesoporous Materials, 2005, 77, 55-66.	4.4	46
68	Catalysis by Confinement: Enthalpic Stabilization of NO Oxidation Transition States by Microporous and Mesoporous Siliceous Materials. Journal of Physical Chemistry C, 2013, 117, 20666-20674.	3.1	44
69	Oxidation of zeolite acid sites in NO/O ₂ mixtures and the catalytic properties of the new site in NO oxidation. Journal of Catalysis, 2015, 325, 68-78.	6.2	44
70	Reverse Water-Gas Shift Iron Catalyst Derived from Magnetite. Catalysts, 2019, 9, 773.	3.5	44
71	Synthesis and Characterization of Zincosilicates with the SOD Topology. Chemistry of Materials, 1994, 6, 2193-2199.	6.7	42
72	Photocatalytic Activity of Vanadium-Substituted ETS-10. Journal of Physical Chemistry C, 2007, 111, 7029-7037.	3.1	42

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73	Catalysis of the Diels–Alder Reaction of Furan and Methyl Acrylate in Lewis Acidic Zeolites. ACS Catalysis, 2017, 7, 2240-2246.	11.2	39
74	General Acid-Type Catalysis in the Dehydrative Aromatization of Furans to Aromatics in H-[Al]-BEA, H-[Fe]-BEA, H-[Ga]-BEA, and H-[B]-BEA Zeolites. Journal of Physical Chemistry C, 2017, 121, 13666-13679.	3.1	39
75	Non-oxidative Coupling of Methane to Ethylene Using Mo ₂ C/[B]ZSM-5. ChemPhysChem, 2018, 19, 504-511.	2.1	38
76	Investigation of the Negative Thermal Expansion Mechanism of Zeolite Chabazite Using the Pair Distribution Function Method. Journal of Physical Chemistry B, 2005, 109, 9389-9396.	2.6	37
77	Mechanisms of Quick Zeolite Beta Crystallization. Chemistry of Materials, 2012, 24, 3621-3632.	6.7	36
78	Iron-Promotion of Silica-Supported Copper Catalysts for Furfural Hydrodeoxygenation. ChemCatChem, 2016, 8, 3402-3408.	3.7	36
79	On the Structure–Property Relationships of Cation-Exchanged ZK Zeolites for CO ₂ Adsorption. ChemSusChem, 2017, 10, 946-957.	6.8	36
80	Scaleup of a Single-Mode Microwave Reactor. Industrial & Engineering Chemistry Research, 2020, 59, 2516-2523.	3.7	36
81	Influence of Polymer Motion, Topology and Simulation Size on Penetrant Diffusion in Amorphous, Glassy Polymers: Diffusion of Helium in Polypropylene. Macromolecules, 2001, 34, 6107-6116.	4.8	35
82	Acylation of methylfuran with Brønsted and Lewis acid zeolites. Applied Catalysis A: General, 2018, 564, 90-101.	4.3	35
83	Title is missing!. Topics in Catalysis, 1999, 9, 1-11.	2.8	34
84	Effect of steam and CO ₂ on ethane activation over Zn-ZSM-5. Catalysis Science and Technology, 2018, 8, 358-366.	4.1	33
85	A General Method for Aluminum Incorporation into High-Silica Zeolites Prepared in Fluoride Media. Chemistry of Materials, 2016, 28, 638-649.	6.7	32
86	Synthesis, structure solution, and characterization of the aluminosilicate MCM-61: the first aluminosilicate clathrate with 18-membered rings. Microporous and Mesoporous Materials, 1999, 31, 61-73.	4.4	30
87	Self-Assembly and Phase Behavior of Germanium Oxide Nanoparticles in Basic Aqueous Solutions. Langmuir, 2007, 23, 2784-2791.	3.5	30
88	Ethane Dehydrogenation on Single and Dual Centers of Ga-modified Î ³ -Al ₂ O ₃ . ACS Catalysis, 2021, 11, 1380-1391.	11.2	30
89	A Spinel Oxynitride with Visible-Light Photocatalytic Activity. ChemSusChem, 2010, 3, 814-817.	6.8	29
90	Production of <i>p</i> -Methylstyrene and <i>m</i> -Divinylbenzene from Furanic Compounds. ChemSusChem, 2017, 10, 91-98.	6.8	29

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91	Understanding the Correlation between Ga Speciation and Propane Dehydrogenation Activity on Ga/H-ZSM-5 Catalysts. ACS Catalysis, 2021, 11, 10647-10659.	11.2	29
92	Synthesis of (Alumino) Silicate Materials Using Organic Molecules and Self-Assembled Organic Aggregates as Structure-Directing Agents. Materials Research Society Symposia Proceedings, 1994, 346, 831.	0.1	28
93	Mobility of Li cations in X zeolites studied by solid-state NMR spectroscopy. Solid State Ionics, 1999, 118, 135-139.	2.7	28
94	Initial Stages of Self-Organization of Silica-Alumina Gels in Zeolite Synthesis. Langmuir, 2007, 23, 4532-4540.	3.5	28
95	Spatial Ordering of Organic and Inorganic Charge Centers in As-Made High-Silica Zeolites Determined by Multidimensional $\{^1\text{H}\} \hat{+}^2\text{H}$ CPMAS NMR Correlation Spectroscopy. Chemistry of Materials, 1998, 10, 4015-4024.	6.7	27
96	Framework modification of microporous silicates via gas-phase treatment with ZrCl_4 . Catalysis Letters, 1999, 62, 99-106.	2.6	27
97	Analysis of Ga coordination environment in novel spinel zinc gallium oxy-nitride photocatalysts. Journal of Materials Chemistry, 2010, 20, 9787.	6.7	27
98	Accessibility of lithium cations in high-silica zeolites investigated using the NMR paramagnetic shift effect of adsorbed oxygen. Microporous and Mesoporous Materials, 2000, 40, 25-34.	4.4	26
99	Understanding the differences between microporous and mesoporous synthesis through the phase behavior of silica. Microporous and Mesoporous Materials, 2006, 90, 102-111.	4.4	26
100	Thermodynamics of Silica Nanoparticle Self-Assembly in Basic Solutions of Monovalent Cations. Journal of Physical Chemistry C, 2008, 112, 14754-14761.	3.1	26
101	High-temperature dehydrogenation of defective silicalites. Microporous and Mesoporous Materials, 2010, 129, 156-163.	4.4	26
102	Radical Cation Intermediates in Propane Dehydrogenation and Propene Hydrogenation over H-[Fe] Zeolites. Journal of Physical Chemistry C, 2014, 118, 27292-27300.	3.1	26
103	Electronic and Geometric Properties of ETS-10: QM/MM Studies of Cluster Models. Journal of Physical Chemistry B, 2006, 110, 8959-8964.	2.6	25
104	Ga speciation in Ga/H-ZSM-5 by in-situ transmission FTIR spectroscopy. Journal of Catalysis, 2021, 393, 60-69.	6.2	25
105	Structure-Direction in Zeolite Synthesis. Topics in Inclusion Science, 1995, , 47-78.	0.5	25
106	The mechanical properties of siliceous ZSM-5 (MFI) crystals. Microporous and Mesoporous Materials, 2003, 57, 1-7.	4.4	24
107	Effects of Vanadium Substitution on the Structure and Photocatalytic Behavior of ETS-10. Journal of Physical Chemistry C, 2007, 111, 1776-1782.	3.1	24
108	Recent advances in zeolite science based on advance characterization techniques. Microporous and Mesoporous Materials, 2014, 189, 97-106.	4.4	24

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109	The role of barium cations in the synthesis of low-silica LTL zeolites. <i>Microporous and Mesoporous Materials</i> , 1999, 33, 97-113.	4.4	23
110	A fractal description of pore structure in block-copolymer templated mesoporous silicates. <i>Microporous and Mesoporous Materials</i> , 2010, 131, 204-209.	4.4	23
111	Formaldehydeâ€isobutene Prins condensation over MFI-type zeolites. <i>Catalysis Science and Technology</i> , 2018, 8, 5794-5806.	4.1	23
112	A visible light photocatalyst: effects of vanadium substitution on ETS-10. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 5096.	2.8	22
113	Investigation of the Structure of Platinum Clusters Supported in Zeolite Beta Using the Pair Distribution Function. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8573-8579.	3.1	22
114	Highâ€Temperature Produced Catalytic Sites Selective for <i>n</i> -Alkane Dehydrogenation in Acid Zeolites: The Case of HZSMâ€5. <i>ChemCatChem</i> , 2011, 3, 1333-1341.	3.7	21
115	Reactions of Propylene Oxide on Supported Silver Catalysts: Insights into Pathways Limiting Epoxidation Selectivity. <i>Topics in Catalysis</i> , 2012, 55, 3-12.	2.8	21
116	Zn-Promoted H-ZSM-5 for Endothermic Reforming of <i>n</i> -Hexane at High Pressures. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 3930-3938.	3.7	21
117	Role of Boron in Enhancing the Catalytic Performance of Supported Platinum Catalysts for the Nonoxidative Dehydrogenation of <i>n</i> -Butane. <i>ACS Catalysis</i> , 2020, 10, 1500-1510.	11.2	21
118	The promise of emptiness. <i>Nature</i> , 2006, 443, 757-758.	27.8	20
119	Identification of Mixed Valence Vanadium in ETS-10 Using Electron Paramagnetic Resonance, ⁵¹ V Solid-State Nuclear Magnetic Resonance, and Density Functional Theory Studies. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10477-10484.	3.1	20
120	Solid-State Deuterium NMR Studies of Organic Molecules in the Tectosilicate Nonasil. <i>Journal of Physical Chemistry B</i> , 1998, 102, 2339-2349.	2.6	19
121	Zeoliteâ€Catalyzed Formaldehydeâ€Propylene Prins Condensation. <i>ChemCatChem</i> , 2017, 9, 4417-4425.	3.7	19
122	Bioderived Muconates by Crossâ€Metathesis and Their Conversion into Terephthalates. <i>ChemSusChem</i> , 2018, 11, 773-780.	6.8	18
123	Ga ₂ O ₂ ²⁺ Stabilized by Paired Framework Al Atoms in MFI: A Highly Reactive Site in Nonoxidative Propane Dehydrogenation. <i>ACS Catalysis</i> , 2022, 12, 1775-1783.	11.2	18
124	High-Temperature Decomposition of Brønsted Acid Sites in Gallium-Substituted Zeolites. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19395-19405.	3.1	17
125	The local and surface structure of ordered mesoporous carbons from nitrogen sorption, NEXAFS and synchrotron radiation studies. <i>Microporous and Mesoporous Materials</i> , 2006, 92, 81-93.	4.4	16
126	Synthetic Glycolysis. <i>ChemSusChem</i> , 2010, 3, 1237-1240.	6.8	16

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127	H ₂ Adsorption on Cu(I)-SSZ-13. <i>Journal of Physical Chemistry C</i> , 2018, 122, 540-548.	3.1	16
128	Chemical diversity of zeolite catalytic sites. <i>AIChE Journal</i> , 2008, 54, 1402-1409.	3.6	15
129	Lewis Acid Site and Hydrogen-Bond-Mediated Polarization Synergy in the Catalysis of Diels-Alder Cycloaddition by Band-Gap Transition-Metal Oxides. <i>ACS Catalysis</i> , 2019, 9, 701-715.	11.2	15
130	Photocatalytic oxidation of ethylene by ammonium exchanged ETS-10 and AM-6. <i>Applied Catalysis B: Environmental</i> , 2009, 88, 232-239.	20.2	13
131	Structure Analysis and Photocatalytic Properties of Spinel Zinc Gallium Oxonitrides. <i>Chemistry - A European Journal</i> , 2011, 17, 12417-12428.	3.3	13
132	Analysis of visible-light-active Sn(II)-TiO ₂ photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6185.	2.8	13
133	Spatial Correlation of Charge Centers in the Tectosilicate Nonasil Determined by Multidimensional { ¹ H} → ² H CPMAS NMR Correlation Spectroscopy. <i>Journal of the American Chemical Society</i> , 1998, 120, 2482-2483.	13.7	12
134	Formation and evolution of naphthalene radical cations in thermally treated H-ZSM-5 zeolites. <i>Microporous and Mesoporous Materials</i> , 2012, 155, 82-89.	4.4	12
135	Propane Dehydrogenation over Extra-Framework In(I) in Chabazite Zeolites. <i>Chemical Science</i> , 2022, 13, 2954-2964.	7.4	12
136	Paramagnetic Effect of Oxygen in the ²³ Na MAS NMR and ²³ Na MQMAS NMR Spectroscopy of Zeolite LiNaX. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5883-5886.	2.6	11
137	Electron Transfers Induced by <i>trans</i> -Stilbene Sorption in Acidic Aluminum, Gallium, and Boron Beta (BEA) Zeolites. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14480-14490.	3.1	11
138	Catalytic n-pentane conversion on H-ZSM-5 at high pressure. <i>New Journal of Chemistry</i> , 2016, 40, 4245-4251.	2.8	11
139	Selective Synthesis of 4,4'-Dimethylbiphenyl from 2-Methylfuran. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3316-3323.	6.7	11
140	Zeolite MCM-22 Supported Heterogeneous Chromium Catalyst for Ethylene Polymerization. <i>Catalysis Letters</i> , 2003, 88, 227-229.	2.6	10
141	Structural comparison of two EUO-type zeolites investigated by neutron diffraction. <i>Microporous and Mesoporous Materials</i> , 2004, 71, 125-133.	4.4	9
142	Effects of Zeolite Structures, Exchanged Cations, and Bimetallic Formulations on the Selective Hydrogenation of Acetylene Over Zeolite-Supported Catalysts. <i>Catalysis Letters</i> , 2009, 130, 380-385.	2.6	9
143	Linking low and high temperature NO oxidation mechanisms over Brønsted acidic chabazite to dynamic changes of the active site. <i>Journal of Catalysis</i> , 2020, 389, 195-206.	6.2	9
144	Hydrothermal synthesis of alkali-free chabazite zeolites. <i>Journal of Porous Materials</i> , 2020, 27, 1481-1489.	2.6	9

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145	Effect of Al on Zeolite Beta Solid State Chemistry. Topics in Catalysis, 2012, 55, 1332-1343.	2.8	8
146	^2H CPMAS NMR of Guest-Host Species in Zeolites: An Experimental Study. Journal of Physical Chemistry B, 1999, 103, 5920-5927.	2.6	7
147	Grand canonical Monte Carlo simulation of adsorption of nitrogen and oxygen in realistic nanoporous carbon models. AIChE Journal, 2011, 57, 1496-1505.	3.6	6
148	Improved slit-shaped microseparator and its integration with a microreactor for modular biomanufacturing. Green Chemistry, 2021, 23, 3700-3714.	9.0	6
149	Comparison of 4,4'-Dimethylbiphenyl from Biomass-Derived Furfural and Oil-Based Resource: Technoeconomic Analysis and Life-Cycle Assessment. Industrial & Engineering Chemistry Research, 2022, 61, 8963-8972.	3.7	6
150	Introduction to the Structural Chemistry of Zeolites. , 2003, , .		5
151	Oxidative coupling of 2-methyl furoate: A scalable synthesis of dimethyl 2,2'-bifuran-5,5'-dicarboxylate. Applied Catalysis A: General, 2021, 619, 118138.	4.3	5
152	Indirect Fourier Transform and Model Fitting of Small Angle Neutron Scattering from Silica Nanoparticles. Particle and Particle Systems Characterization, 2010, 27, 89-99.	2.3	4
153	On the Mechanism of Ammonia SCR over Cu- and Fe-Containing Zeolite Catalysts. Structure and Bonding, 2018, , 155-178.	1.0	4
154	Nickel-Loaded SSZ-13 Zeolite-Based Sensor for the Direct Electrical Readout Detection of NO_2 . Industrial & Engineering Chemistry Research, 2021, 60, 14371-14380.	3.7	4
155	Electron Transfers Under Confinement in Channel-Type Zeolites. , 2019, , 249-271.		3
156	Selective and Efficient Production of Biomass-Derived Vinylfurans. ACS Sustainable Chemistry and Engineering, 2020, 8, 11930-11939.	6.7	3
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