

Satoshi Sato

List of Publications by Year in descending order

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160
papers

6,668
citations

50276

46
h-index

76900

74
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161
all docs

161
docs citations

161
times ranked

5066
citing authors

#	ARTICLE	IF	CITATIONS
1	Production of acrolein from glycerol over silica-supported heteropoly acids. <i>Catalysis Communications</i> , 2007, 8, 1349-1353.	3.3	356
2	Glycerol hydrogenolysis into useful C3 chemicals. <i>Applied Catalysis B: Environmental</i> , 2016, 193, 75-92.	20.2	243
3	Origins of sp ³ C peaks in C _{1s} X-ray Photoelectron Spectra of Carbon Materials. <i>Analytical Chemistry</i> , 2016, 88, 6110-6114.	6.5	229
4	Basic properties of rare earth oxides. <i>Applied Catalysis A: General</i> , 2009, 356, 57-63.	4.3	215
5	Dehydration and hydrogenation of glycerol into 1,2-propanediol at ambient hydrogen pressure. <i>Applied Catalysis A: General</i> , 2009, 371, 60-66.	4.3	169
6	Analysis of heat-treated graphite oxide by X-ray photoelectron spectroscopy. <i>Journal of Materials Science</i> , 2013, 48, 8171-8198.	3.7	147
7	Production of C4 and C5 alcohols from biomass-derived materials. <i>Green Chemistry</i> , 2016, 18, 2579-2597.	9.0	147
8	Vapor-phase reaction of polyols over copper catalysts. <i>Applied Catalysis A: General</i> , 2008, 347, 186-191.	4.3	146
9	Ketonization of carboxylic acids over CeO ₂ -based composite oxides. <i>Journal of Molecular Catalysis A</i> , 2005, 227, 231-239.	4.8	143
10	Glycerol as a potential renewable raw material for acrylic acid production. <i>Green Chemistry</i> , 2017, 19, 3186-3213.	9.0	143
11	Direct Synthesis of Ethyl Acetate from Ethanol Carried Out under Pressure. <i>Journal of Catalysis</i> , 2002, 212, 207-215.	6.2	128
12	Ortho-Selective Methylation of Phenol Catalyzed by CeO ₂ -MgO Prepared by Citrate Process. <i>Journal of Catalysis</i> , 1998, 178, 264-274.	6.2	112
13	Effective formation of ethyl acetate from ethanol over Cu-Zn-Zr-Al-O catalyst. <i>Journal of Molecular Catalysis A</i> , 2004, 216, 147-156.	4.8	107
14	Direct synthesis of ethyl acetate from ethanol over Cu-Zn-Zr-Al-O catalyst. <i>Applied Catalysis A: General</i> , 2002, 237, 53-61.	4.3	97
15	Selective Dehydration of Alkanediols into Unsaturated Alcohols over Rare Earth Oxide Catalysts. <i>ACS Catalysis</i> , 2013, 3, 721-734.	11.2	97
16	Distinction between Surface and Bulk Oxidation of Cu through N ₂ O Decomposition. <i>Journal of Catalysis</i> , 2000, 196, 195-199.	6.2	90
17	Synthesis of 3-pentanone from 1-propanol over CeO ₂ -Fe ₂ O ₃ catalysts. <i>Applied Catalysis A: General</i> , 2003, 252, 399-410.	4.3	86
18	Selective dehydration of diols to allylic alcohols catalyzed by ceria. <i>Catalysis Communications</i> , 2003, 4, 77-81.	3.3	81

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19	Ni/Mgo catalyst prepared using citric acid for hydrogenation of carbon dioxide. Applied Catalysis A: General, 1997, 158, 185-199.	4.3	78
20	Dehydration of 1,4-butanediol into 3-buten-1-ol catalyzed by ceria. Catalysis Communications, 2004, 5, 397-400.	3.3	78
21	Dehydration of butanediols over CeO ₂ catalysts with different particle sizes. Applied Catalysis A: General, 2006, 300, 50-57.	4.3	77
22	Dehydration of diols catalyzed by CeO ₂ . Journal of Molecular Catalysis A, 2004, 221, 177-183.	4.8	76
23	Ortho-Selective Alkylation of Phenol with 1-Propanol Catalyzed by CeO ₂ ∕MgO. Journal of Catalysis, 1999, 184, 180-188.	6.2	71
24	Dehydrogenative cyclization of 1,4-butanediol over copper-based catalyst. Journal of Molecular Catalysis A, 2004, 212, 197-203.	4.8	71
25	Dehydration of 1,4-butanediol over rare earth oxides. Applied Catalysis A: General, 2009, 356, 64-71.	4.3	71
26	Efficient production of 1,3-butadiene in the catalytic dehydration of 2,3-butanediol. Applied Catalysis A: General, 2015, 491, 163-169.	4.3	71
27	Surface structure and acidity of alumina-boria catalysts. Journal of Molecular Catalysis A, 1995, 104, 171-177.	4.8	70
28	Future Prospect of the Production of 1,3-Butadiene from Butanediols. Chemistry Letters, 2016, 45, 1036-1047.	1.3	69
29	Ortho-selective methylation of phenol over CeO ₂ catalyst. Applied Catalysis A: General, 1995, 133, L7-L10.	4.3	68
30	Surface-structure sensitivity of CeO ₂ for several catalytic reactions. Journal of Molecular Catalysis A, 2008, 279, 10-19.	4.8	67
31	Effect of Ag loading on Cu/Al ₂ O ₃ catalyst in the production of 1,2-propanediol from glycerol. Applied Catalysis A: General, 2014, 475, 63-68.	4.3	66
32	Synthesis of 3-buten-1-ol from 1,4-butanediol over ZrO ₂ catalyst. Journal of Molecular Catalysis A, 2006, 243, 52-59.	4.8	65
33	Catalytic vapor-phase cyclization of 1,6-hexanediol into cyclopentanone. Catalysis Communications, 2003, 4, 411-416.	3.3	63
34	Dehydration of 2,3-butanediol into 3-buten-2-ol catalyzed by ZrO ₂ . Catalysis Communications, 2014, 48, 1-4.	3.3	62
35	Catalytic performance of rare earth oxides in ketonization of acetic acid. Journal of Molecular Catalysis A, 2011, 346, 79-86.	4.8	61
36	Effect of diffusion in catalytic dehydration of alcohol over silica∕alumina with continuous macropores. Journal of Catalysis, 2005, 229, 24-29.	6.2	60

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37	Catalytic reaction of 1,3-butanediol over rare earth oxides. <i>Applied Catalysis A: General</i> , 2007, 328, 109-116.	4.3	60
38	Catalytic reaction of 1,3-butanediol over solid acids. <i>Journal of Molecular Catalysis A</i> , 2006, 256, 106-112.	4.8	58
39	Selective Conversion of Glycerol into 1,2-Propanediol at Ambient Hydrogen Pressure. <i>Chemistry Letters</i> , 2009, 38, 560-561.	1.3	58
40	Catalytic and acidic properties of silica-alumina prepared by chemical vapour deposition. <i>Applied Catalysis</i> , 1990, 62, 73-84.	0.8	56
41	Synthesis of homoallyl alcohol from 1,4-butanediol over ZrO ₂ catalyst. <i>Catalysis Communications</i> , 2005, 6, 480-484.	3.3	54
42	Vapor-phase hydrogenation of levulinic acid to γ -valerolactone over Cu-Ni bimetallic catalysts. <i>Catalysis Communications</i> , 2017, 97, 79-82.	3.3	52
43	Carbon Materials with Zigzag and Armchair Edges. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40710-40739.	8.0	51
44	Dehydration of 1,4-butanediol over lanthanide oxides. <i>Catalysis Communications</i> , 2007, 8, 807-810.	3.3	50
45	Production of 1,3-butadiene from biomass-derived C4 alcohols. <i>Fuel Processing Technology</i> , 2020, 197, 106193.	7.2	50
46	Efficient formation of angelica lactones in a vapor-phase conversion of levulinic acid. <i>Applied Catalysis A: General</i> , 2016, 526, 62-69.	4.3	49
47	Vapor-phase hydrogenation of levulinic acid and methyl levulinate to γ -valerolactone over non-noble metal-based catalysts. <i>Molecular Catalysis</i> , 2017, 437, 105-113.	2.0	48
48	Origins of peaks of graphitic and pyrrolic nitrogen in N1s X-ray photoelectron spectra of carbon materials: quaternary nitrogen, tertiary amine, or secondary amine?. <i>Journal of Materials Science</i> , 2021, 56, 15798-15811.	3.7	46
49	Silica-alumina catalysts prepared in sol-gel process of TEOS with organic additives. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 4830-4837.	2.8	45
50	Efficient production of propylene in the catalytic conversion of glycerol. <i>Applied Catalysis B: Environmental</i> , 2015, 174-175, 13-20.	20.2	44
51	PIV study on 1,3-butanediol dehydration over CeO ₂ (111) surface. <i>Journal of Molecular Catalysis A</i> , 2005, 231, 181-189.	4.8	43
52	Dehydration of 1,4-butanediol over supported rare earth oxide catalysts. <i>Applied Catalysis A: General</i> , 2009, 352, 66-73.	4.3	43
53	Dehydration of 1,3-butanediol over rare earth oxides. <i>Applied Catalysis A: General</i> , 2010, 377, 92-98.	4.3	43
54	Vapor-phase Dehydration of Glycerol into Hydroxyacetone over Silver Catalyst. <i>Chemistry Letters</i> , 2012, 41, 965-966.	1.3	43

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55	Effect of pore size on the liquid-phase pore diffusion of nickel nitrate. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 3800-3805.	2.8	42
56	Hydrogenation of Î³-valerolactone to 1,4-pentanediol in a continuous flow reactor. <i>Applied Catalysis A: General</i> , 2017, 542, 289-295.	4.3	41
57	Catalytic dehydration of 1,2-propanediol into propanal. <i>Applied Catalysis A: General</i> , 2009, 366, 304-308.	4.3	39
58	Phase Separation in Solâ€“Gel Process of Alkoxideâ€“Derived Silicaâ€“Zirconia in the Presence of Polyethylene Oxide. <i>Journal of the American Ceramic Society</i> , 2001, 84, 1968-1976.	3.8	38
59	Vapor-phase dehydration of 1,5-pentanediol into 4-penten-1-ol. <i>Applied Catalysis A: General</i> , 2008, 334, 84-91.	4.3	38
60	Humidity Control Ability of Silica with Bimodal Pore Structures Prepared from Water Glass. <i>Journal of the Ceramic Society of Japan</i> , 2004, 112, 491-495.	1.3	37
61	Pyrolysis of Epoxidized Fullerenes Analyzed by Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7076-7084.	3.1	37
62	Preparation of Cu/SiO ₂ Catalyst by Solution Exchange of Wet Silica Gel. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 19, 715-718.	2.4	36
63	Spectral change of simulated X-ray photoelectron spectroscopy from graphene to fullerene. <i>Journal of Materials Science</i> , 2015, 50, 6739-6747.	3.7	36
64	Selective dehydration of 2,3-butanediol to 3-buten-2-ol over ZrO ₂ modified with CaO. <i>Applied Catalysis A: General</i> , 2014, 487, 226-233.	4.3	35
65	Vapor-phase dehydration of C ₄ unsaturated alcohols to 1,3-butadiene. <i>Applied Catalysis A: General</i> , 2017, 531, 21-28.	4.3	35
66	Carbon materials with high pentagon density. <i>Journal of Materials Science</i> , 2021, 56, 2912-2943.	3.7	35
67	Solâ€“gel preparation of Ni/TiO ₂ catalysts with bimodal pore structures. <i>Applied Catalysis A: General</i> , 2010, 383, 66-72.	4.3	33
68	High-Surface-Area SiO ₂ â€“ZrO ₂ Prepared by Depositing Silica on Zirconia in Aqueous Ammonia Solution. <i>Journal of Catalysis</i> , 2000, 196, 190-194.	6.2	32
69	Stable vapor-phase conversion of tetrahydrofurfuryl alcohol into 3,4-2H-dihdropyran. <i>Applied Catalysis A: General</i> , 2013, 453, 213-218.	4.3	32
70	Stable Cu-Ni/SiO ₂ catalysts prepared by using citric acid-assisted impregnation for vapor-phase hydrogenation of levulinic acid. <i>Molecular Catalysis</i> , 2018, 454, 70-76.	2.0	32
71	Vapor-phase catalytic reactions of alcohols over bixbyite indium oxide. <i>Journal of Molecular Catalysis A</i> , 2009, 310, 166-173.	4.8	31
72	Catalytic Dehydration of 1,2-Propanediol into Propanal over Ag-Modified Silicaâ€“Alumina. <i>Chemistry Letters</i> , 2014, 43, 450-452.	1.3	30

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73	Vapor-Phase Synthesis of Symmetric Ketone from Alcohol over CeO ₂ -Fe ₂ O ₃ Catalysts. <i>Chemistry Letters</i> , 2000, 29, 232-233.	1.3	29
74	Pore structure control in Ni/SiO ₂ catalysts with both macropores and mesopores. <i>Microporous and Mesoporous Materials</i> , 2007, 98, 107-114.	4.4	29
75	Synthesis of 3-buten-2-one from 4-hydroxy-2-butanone over anatase-TiO ₂ catalyst. <i>Catalysis Communications</i> , 2005, 6, 19-22.	3.3	28
76	Quantitative Analysis of Zigzag and Armchair Edges on Carbon Materials with and without Pentagons Using Infrared Spectroscopy. <i>Analytical Chemistry</i> , 2018, 90, 10724-10731.	6.5	28
77	Temperature-Programmed Desorption of Dimethylpyridine Adsorbed on Silica-Alumina Prepared by Chemical Vapor Deposition. <i>Bulletin of the Chemical Society of Japan</i> , 1991, 64, 1005-1007.	3.2	27
78	Characterization of sulfated zirconia prepared using reference catalysts and application to several model reactions. <i>Applied Catalysis A: General</i> , 2009, 360, 89-97.	4.3	27
79	Selective production of 1,3-butadiene in the dehydration of 1,4-butanediol over rare earth oxides. <i>Applied Catalysis A: General</i> , 2018, 562, 11-18.	4.3	27
80	Structural Study of Mesoporous Titania Prepared from Titanium Alkoxide and Carboxylic Acids. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 19, 711-714.	2.4	26
81	Production of propanal from 1,2-propanediol over silica-supported WO ₃ catalyst. <i>Applied Catalysis A: General</i> , 2014, 487, 234-241.	4.3	25
82	Measurement of the diffusion coefficient of nickel nitrate in wet silica gel using UV/VIS spectroscope equipped with a flow cell. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 1199-1204.	2.8	24
83	Synthesis of α -hydroxyketones from 1,2-diols over Cu-based catalyst. <i>Catalysis Communications</i> , 2005, 6, 607-610.	3.3	24
84	Formation of cyclopentanone from dimethyl hexanedioate over CeO ₂ . <i>Applied Catalysis A: General</i> , 2006, 312, 175-180.	4.3	24
85	Vapor-phase catalytic dehydration of 1,4-butanediol to 3-buten-1-ol over modified ZrO ₂ catalysts. <i>Applied Catalysis A: General</i> , 2017, 535, 9-16.	4.3	24
86	Vapor-phase catalytic dehydration of 2,3-butanediol to 3-buten-2-ol over ZrO ₂ modified with alkaline earth metal oxides. <i>Applied Catalysis A: General</i> , 2017, 530, 66-74.	4.3	24
87	Kinetic studies of liquid-phase acetal formation catalyzed by Keggin-type heteropolyacids. <i>Journal of Molecular Catalysis A</i> , 1996, 114, 209-216.	4.8	23
88	Dehydration of 1,5-pentanediol over rare earth oxides. <i>Applied Catalysis A: General</i> , 2012, 419-420, 41-48.	4.3	23
89	Acid-base concerted mechanism in the dehydration of 1,4-butanediol over bixbyite rare earth oxide catalysts. <i>Catalysis Today</i> , 2014, 226, 124-133.	4.4	23
90	Selective hydrogenation of γ -valerolactone to 2-methyltetrahydrofuran over Cu/Al ₂ O ₃ catalyst. <i>Applied Catalysis A: General</i> , 2020, 590, 117309.	4.3	23

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91	Mesoporous MgO and Ni ²⁺ /MgO prepared by using carboxylic acids. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 4968-4973.	2.8	22
92	Efficient formation of γ -valerolactone in the vapor-phase hydrogenation of levulinic acid over Cu-Co/alumina catalyst. <i>Catalysis Communications</i> , 2020, 139, 105967.	3.3	22
93	Selective doping of nitrogen into carbon materials without catalysts. <i>Journal of Materials Science</i> , 2016, 51, 8900-8915.	3.7	20
94	Vapor-phase self-aldol condensation of butanal over Ag-modified TiO ₂ . <i>Applied Catalysis A: General</i> , 2016, 524, 8-16.	4.3	20
95	Bottom-up synthesis of highly soluble carbon materials. <i>Journal of Materials Science</i> , 2020, 55, 11808-11828.	3.7	19
96	Dehydrogenation of 1,3-butanediol over Cu-based catalyst. <i>Journal of Molecular Catalysis A</i> , 2007, 272, 164-168.	4.8	18
97	Oxygen Migration and Selective CO and CO ₂ Formation from Epoxidized Fullerenes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7085-7093.	3.1	18
98	Vapor-phase Catalytic Dehydration of 2,3-Butanediol into 3-Buten-2-ol over Sc ₂ O ₃ . <i>Chemistry Letters</i> , 2014, 43, 1773-1775.	1.3	18
99	Vapor-Phase Beckmann Rearrangement of Cyclohexanone Oxime over an HY Zeolite Catalyst Calcined at High Temperature. <i>Bulletin of the Chemical Society of Japan</i> , 1992, 65, 1486-1490.	3.2	17
100	Silica with Bimodal Pores for Solid Catalysts Prepared from Water Glass. <i>Journal of Sol-Gel Science and Technology</i> , 2004, 31, 373-376.	2.4	17
101	Dehydration of 1,5-pentanediol over bixbyite Sc _{2-x} Y _x O ₃ catalysts. <i>Catalysis Communications</i> , 2012, 27, 129-133.	3.3	17
102	Cyclodehydration of diethylene glycol over Ag-modified Al ₂ O ₃ catalyst. <i>Applied Catalysis A: General</i> , 2015, 505, 422-430.	4.3	17
103	Vapor-phase catalytic dehydration of butanediols to unsaturated alcohols over yttria-stabilized zirconia catalysts. <i>Applied Catalysis A: General</i> , 2019, 575, 48-57.	4.3	17
104	Production of aldehydes from 1,2-alkanediols over silica-supported WO ₃ catalyst. <i>Applied Catalysis A: General</i> , 2016, 526, 164-171.	4.3	16
105	Bimodal Porous Silica Prepared from Water Glass by Inducing Phase Separation.. <i>Journal of the Ceramic Society of Japan</i> , 2001, 109, 577-579.	1.3	15
106	Bromination of graphene with pentagonal, hexagonal zigzag and armchair, and heptagonal edges. <i>Journal of Materials Science</i> , 2015, 50, 5183-5190.	3.7	15
107	Preparation of Er ₂ O ₃ Nanorod Catalyst without Using Organic Additive and Its Application to Catalytic Dehydration of 1,4-Butanediol. <i>Chemistry Letters</i> , 2012, 41, 593-594.	1.3	14
108	Efficient formation of nitriles in the vapor-phase catalytic dehydration of aldoximes. <i>Green Chemistry</i> , 2016, 18, 3389-3396.	9.0	14

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109	Amorphous SiO ₂ catalyst for vapor-phase aldol condensation of butanal. Applied Catalysis A: General, 2019, 570, 113-119.	4.3	14
110	Selective Production of 1,3-Butadiene from 1,3-Butanediol over Y ₂ Zr ₂ O ₇ Catalyst. Bulletin of the Chemical Society of Japan, 2021, 94, 1651-1658.	3.2	14
111	Vapor-Phase Dehydration of 1,3-butanediol over CeO ₂ -ZrO ₂ Catalysts. Topics in Catalysis, 2009, 52, 609-617.	2.8	13
112	Synthesis of 3-buten-1-ol from 1,4-butanediol over indium oxide. Applied Catalysis A: General, 2010, 383, 134-140.	4.3	13
113	Vapor-phase hydrogenation of levulinic acid to γ -valerolactone over Cu-Ni alloy catalysts. Applied Catalysis A: General, 2021, 616, 118093.	4.3	13
114	Infrared spectroscopy of graphene nanoribbons and aromatic compounds with sp ³ C-H (methyl or Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.7	13
115	Gas-Flow Resistance in Continuous Macropores in Silica Rods Prepared by Freezing Transitional Structures of Phase Separation. Journal of the Ceramic Society of Japan, 2004, 112, 99-103.	1.3	12
116	Vapor-phase catalytic dehydration of terminal diols. Catalysis Today, 2011, 164, 419-424.	4.4	12
117	Dehydration of Biomass-Derived Butanediols over Rare Earth Zirconate Catalysts. Catalysts, 2020, 10, 1392.	3.5	12
118	Brominated positions on graphene nanoribbon analyzed by infrared spectroscopy. Journal of Materials Science, 2020, 55, 10522-10542.	3.7	12
119	Diffusion coefficient of ketones in liquid media within mesopores. Physical Chemistry Chemical Physics, 2003, 5, 2476-2480.	2.8	11
120	Structural analysis of carbon materials by X-ray photoelectron spectroscopy using computational chemistry. Tanso, 2015, 2015, 181-189.	0.1	11
121	Vapor-phase intramolecular aldol condensation of 2,5-hexanedione to 3-methylcyclopent-2-enone over ZrO ₂ -supported Li ₂ O catalyst. Catalysis Communications, 2017, 92, 105-108.	3.3	11
122	Carbonization of phloroglucinol promoted by heteropoly acids. Journal of Materials Science, 2021, 56, 2944-2960.	3.7	11
123	Effect of Si Content on Diffusion Coefficient of Nickel Nitrate in Wet Silica Gel.. Journal of the Ceramic Society of Japan, 2001, 109, 840-845.	1.3	10
124	Liquid-phase hydrogenation of ketones in the mesopores of nickel catalysts. Physical Chemistry Chemical Physics, 2002, 4, 3537-3542.	2.8	10
125	Solvent-Free Diels-Alder Reaction in a Closed Batch System. Bulletin of the Chemical Society of Japan, 2013, 86, 276-282.	3.2	10
126	Dehydration of 3-methyl-1,3-butanediol over Al ₂ O ₃ modified with carbon. Applied Catalysis A: General, 2014, 475, 147-154.	4.3	10

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127	Bottom-up synthesis of carbon materials with high pyridinic-nitrogen content from dibenzacridine isomers with zigzag and armchair edges. <i>Journal of Materials Science</i> , 2022, 57, 7503-7530.	3.7	10
128	Adsorptive interaction between 1,5-pentanediol and MgO-modified ZrO ₂ catalyst in the vapor-phase dehydration to produce 4-penten-1-ol. <i>Applied Catalysis A: General</i> , 2017, 546, 96-102.	4.3	9
129	Structural and Catalytic Properties of Silica-Coated Alumina. <i>Bulletin of the Chemical Society of Japan</i> , 2006, 79, 649-655.	3.2	8
130	Stable Vapor-phase Catalytic Conversion of Pinacolone into 2,3-Dimethyl-1,3-butadiene. <i>Chemistry Letters</i> , 2012, 41, 831-833.	1.3	8
131	Advantages of using Cu/SiO ₂ catalyst for vapor-phase dehydrogenation of 1-decanol into decanal. <i>Applied Catalysis A: General</i> , 2019, 582, 117109.	4.3	8
132	Bottom-up synthesis of oxygen-containing carbon materials using a Lewis acid catalyst. <i>Journal of Materials Science</i> , 2021, 56, 15698-15717.	3.7	8
133	Control of coke deposition in solid acid catalysis through the doping of transition metal combined with the assistance of H ₂ : A review. <i>Applied Catalysis A: General</i> , 2021, 626, 118340.	4.3	8
134	Dehydration of 2,3-butanediol to produce 1,3-butadiene over Sc ₂ O ₃ catalyst prepared through hydrothermal aging. <i>Molecular Catalysis</i> , 2021, 516, 111996.	2.0	8
135	Synthesis of Monolithic Zeolites with Macropores. <i>Journal of the Ceramic Society of Japan</i> , 2006, 114, 421-424.	1.3	7
136	Strength and elasticity of bimodal porous silica prepared from water glass. <i>Journal of Sol-Gel Science and Technology</i> , 2007, 43, 275-282.	2.4	7
137	Highly Active Ni/SiO ₂ Catalyst Prepared Through Citric Acid-Assisted Impregnation for the Hydrogenation of Acetoin to 2,3-Butanediol. <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 443-450.	3.2	7
138	Efficient Production of 1,3-Butadiene from 1,4-Butanediol over Yb ₂ O ₃ Catalyst Prepared through Hydrothermal Aging. <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 506-512.	3.2	7
139	Thermal Properties of Monolithic Silica and Silica-Zirconia with Bimodal Pore Structures. <i>Journal of the Ceramic Society of Japan</i> , 2005, 113, 92-96.	1.3	6
140	In Situ Spectroscopic and Computational Studies on a MnO ₂ –CuO Catalyst for Use in Volatile Organic Compound Decomposition. <i>ACS Omega</i> , 2017, 2, 7424-7432.	3.5	6
141	Isomerization of Crotyl Alcohol Catalyzed by V ₂ O ₅ -modified Silica. <i>Chemistry Letters</i> , 2021, 50, 1635-1638.	1.3	6
142	Bending strength of silica gel with bimodal pores. <i>Materials Research Bulletin</i> , 2007, 42, 523-531.	5.2	5
143	Dehydration of 5-amino-1-pentanol over rare earth oxides. <i>Applied Catalysis A: General</i> , 2016, 517, 73-80.	4.3	5
144	Vapor-phase synthesis of piperidine over SiO ₂ catalysts. <i>Catalysis Communications</i> , 2018, 110, 42-45.	3.3	5

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145	Bromination Reactivity of Oxygen-Terminated Edges of Graphene. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 3004-3009.	0.9	5
146	Effects of Preparation Conditions on Pore Structure and Crystal Phase of Mesoporous Zirconia.. <i>Journal of the Ceramic Society of Japan</i> , 2003, 111, 16-23.	1.3	3
147	Fabrication of Gas Chromatography Glass Capillary Columns with Silica Gel Layer on the Inner Surface Utilizing Sol-Gel Phase Separation. <i>Journal of the Ceramic Society of Japan</i> , 2005, 113, 634-636.	1.3	3
148	Macropore Formation of Silica Gel in the Presence of Sodium Dodecyl Sulfate by Inducing Phase Separation in Alcohol-free Aqueous Solution. <i>Journal of the Ceramic Society of Japan</i> , 2007, 115, 882-887.	1.1	3
149	Catalytic dehydration of 1,3-butanediol over oxygen-defected fluorite Yb ₂ Zr ₂ O ₇ . <i>Molecular Catalysis</i> , 2019, 473, 110399.	2.0	3
150	Vapor-phase dehydration of 1,4-butanediol to 1,3-butadiene over Y ₂ Zr ₂ O ₇ catalyst. <i>Molecular Catalysis</i> , 2021, 514, 111853.	2.0	3
151	Silica-Coated Metal Oxide Powders with High Surface Area.. <i>Journal of the Ceramic Society of Japan</i> , 2002, 110, 1097-1099.	1.3	2
152	Liquid-Phase Cyclodimerization of 1,3-Butadiene in a Closed Batch System. <i>Bulletin of the Chemical Society of Japan</i> , 2013, 86, 529-533.	3.2	2
153	Enhanced catalytic performance of H ₃ PO ₄ /SiO ₂ by doping WO ₃ and Ag for the vapor-phase dehydration of 1,2-propanediol to form propanal. <i>Applied Catalysis A: General</i> , 2022, 633, 118509.	4.3	2
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155	Preparation of Porous Titania Film from Precursor Solution Containing Titanium Alkoxide and Stearic Acid.. <i>Journal of the Ceramic Society of Japan</i> , 2001, 109, 712-714.	1.3	1
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157	Phase separation in the system with sodium silicate and sodium dodecyl sulfate under acidic conditions. <i>Journal of the Ceramic Society of Japan</i> , 2010, 118, 295-299.	1.1	1
158	Vapor-phase isomerization of 3-pentenal over amorphous SiO ₂ catalyst. <i>Applied Catalysis A: General</i> , 2019, 576, 65-73.	4.3	1
159	Preparative chemistry of calcia-stabilized ZrO ₂ for vapor-phase dehydration of 1,4-butanediol. <i>Molecular Catalysis</i> , 2021, 503, 111343.	2.0	1
160	Vapor-phase Organic Reactions Catalyzed by Rare Earth Oxides: Dehydration of Diols. <i>Hyomen Kagaku</i> , 2011, 32, 76-80.	0.0	0