

# Changbum Jo

## List of Publications by Year in descending order

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43  
papers

3,103  
citations

279487

23  
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264894

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46  
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46  
docs citations

46  
times ranked

3171  
citing authors

#	ARTICLE	IF	CITATIONS
1	Directing Zeolite Structures into Hierarchically Nanoporous Architectures. <i>Science</i> , 2011, 333, 328-332.	6.0	750
2	Industrial carbon dioxide capture and utilization: state of the art and future challenges. <i>Chemical Society Reviews</i> , 2020, 49, 8584-8686.	18.7	610
3	Rare-earth platinum alloy nanoparticles in mesoporous zeolite for catalysis. <i>Nature</i> , 2020, 585, 221-224.	13.7	233
4	MFI Titanosilicate Nanosheets with Single-Unit-Cell Thickness as an Oxidation Catalyst Using Peroxides. <i>ACS Catalysis</i> , 2011, 1, 901-907.	5.5	206
5	Molecular shape-selectivity of MFI zeolite nanosheets in n-decane isomerization and hydrocracking. <i>Journal of Catalysis</i> , 2013, 300, 70-80.	3.1	132
6	Microporous Aluminophosphate Nanosheets and Their Nanomorphous Zeolite Analogues Tailored by Hierarchical Structure-Directing Amines. <i>Journal of the American Chemical Society</i> , 2013, 135, 8806-8809.	6.6	111
7	Zeolite nanosheet of a single-pore thickness generated by a zeolite-structure-directing surfactant. <i>Journal of Materials Chemistry</i> , 2012, 22, 4637.	6.7	86
8	Capping with Multivalent Surfactants for Zeolite Nanocrystal Synthesis. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10014-10017.	7.2	85
9	MFI zeolite nanosponges possessing uniform mesopores generated by bulk crystal seeding in the hierarchical surfactant-directed synthesis. <i>Chemical Communications</i> , 2014, 50, 4175-4177.	2.2	84
10	The effect of MFI zeolite lamellar and related mesostructures on toluene disproportionation and alkylation. <i>Catalysis Science and Technology</i> , 2013, 3, 2119.	2.1	74
11	Syntheses of high quality KIT-6 and SBA-15 mesoporous silicas using low-cost water glass, through rapid quenching of silicate structure in acidic solution. <i>Microporous and Mesoporous Materials</i> , 2009, 124, 45-51.	2.2	70
12	Bulk crystal seeding in the generation of mesopores by organosilane surfactants in zeolite synthesis. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11905-11912.	5.2	50
13	PtZn Intermetallic Compound Nanoparticles in Mesoporous Zeolite Exhibiting High Catalyst Durability for Propane Dehydrogenation. <i>ACS Catalysis</i> , 2021, 11, 9233-9241.	5.5	46
14	Oxygen activation on the interface between Pt nanoparticles and mesoporous defective TiO <sub>2</sub> during CO oxidation. <i>Journal of Chemical Physics</i> , 2019, 151, 234716.	1.2	37
15	Random Graft Polymer-Directed Synthesis of Inorganic Mesostructures with Ultrathin Frameworks. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5117-5121.	7.2	36
16	Structural and physicochemical effects of MFI zeolite nanosheets for the selective synthesis of propylene from methanol. <i>Microporous and Mesoporous Materials</i> , 2016, 222, 1-8.	2.2	36
17	Synthesis of mesoporous zeolites in fluoride media with structure-directing multiammonium surfactants. <i>Microporous and Mesoporous Materials</i> , 2017, 239, 19-27.	2.2	33
18	Mesoporous Polymeric Support Retaining High Catalytic Activity of Polyoxotungstate for Liquid Phase Olefin Epoxidation using H <sub>2</sub> O <sub>2</sub> . <i>ChemCatChem</i> , 2011, 3, 1435-1438.	1.8	32

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19	Anatase TiO <sub>2</sub> nanosheets with surface acid sites for Friedel-Crafts alkylation. <i>Microporous and Mesoporous Materials</i> , 2016, 222, 185-191.	2.2	28
20	Tomographic imaging of pore networks and connectivity of surfactant-directed mesoporous zeolites. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11086-11093.	5.2	28
21	3D graphene-like zeolite-templated carbon with hierarchical structures as a high-performance adsorbent for volatile organic compounds. <i>Chemical Engineering Journal</i> , 2021, 409, 128076.	6.6	27
22	Acid catalytic function of mesopore walls generated by MFI zeolite desilication in comparison with external surfaces of MFI zeolite nanosheet. <i>Applied Catalysis A: General</i> , 2015, 492, 68-75.	2.2	25
23	Synthesis of Silicate Zeolite Analogues Using Organic Sulfonium Compounds as Structure-Directing Agents. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12805-12808.	7.2	24
24	Oxidative Dehydrogenation of Ethane with CO <sub>2</sub> as a Soft Oxidant over a PtCe Bimetallic Catalyst. <i>ACS Catalysis</i> , 2021, 11, 9221-9232.	5.5	24
25	Dynamic adsorption/desorption of p-xylene on nanomorphous MFI zeolites: Effect of zeolite crystal thickness and mesopore architecture. <i>Journal of Hazardous Materials</i> , 2021, 403, 123659.	6.5	23
26	Annulation of Phenols: Catalytic Behavior of Conventional and 2D Zeolites. <i>ChemCatChem</i> , 2014, 6, 1919-1927.	1.8	21
27	Ni Nanoparticles on Ni Core/N-Doped Carbon Shell Heterostructures for Electrocatalytic Oxygen Evolution. <i>ACS Applied Nano Materials</i> , 2021, 4, 9418-9429.	2.4	21
28	Ethane Dehydrogenation with CO <sub>2</sub> as a soft oxidant over a Cr-TUD-1 catalyst. <i>Journal of CO<sub>2</sub> Utilization</i> , 2020, 39, 101184.	3.3	21
29	Post-Synthesis Functionalization Enables Fine-Tuning the Molecular Sieving Properties of Zeolites for Light Olefin/Paraffin Separations. <i>Advanced Materials</i> , 2021, 33, e2105398.	11.1	20
30	Engineering micropore walls of beta zeolites by post-functionalization for CO <sub>2</sub> adsorption performance screening under humid conditions. <i>Chemical Engineering Journal</i> , 2022, 427, 131461.	6.6	15
31	Highly monodisperse supported metal nanoparticles by basic ammonium functionalization of mesopore walls for industrially relevant catalysis. <i>Chemical Communications</i> , 2017, 53, 3810-3813.	2.2	14
32	Coordination structure of Jacobsen catalyst with N-modified graphene and their electrocatalytic properties for reducing oxygen molecules. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118337.	10.8	13
33	Soft-to-hard consecutive templating one-pot route from metal nitrate/phenol resin/surfactant to mesoporous metal oxides with enhanced thermal stability. <i>Microporous and Mesoporous Materials</i> , 2020, 293, 109767.	2.2	10
34	Postsynthetic Modification of Zeolite Internal Surface for Sustainable Capture of Volatile Organic Compounds under Humid Conditions. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 53925-53934.	4.0	10
35	Mesoporous titania with anatase framework synthesized using polyphenolic structure-directing agent: Synthesis domain and catalytic metal loading. <i>Microporous and Mesoporous Materials</i> , 2015, 212, 117-124.	2.2	9
36	Mesopore expansion of surfactant-directed nanomorphous zeolites with trimethylbenzene. <i>Microporous and Mesoporous Materials</i> , 2014, 194, 83-89.	2.2	8

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37	Tailoring the CO <sub>2</sub> selective adsorption properties of MOR zeolites by post functionalization. Journal of CO <sub>2</sub> Utilization, 2022, 62, 102064.	3.3	6
38	Catalytic Dehydration of Ethanol over WO <sub>x</sub> Nanoparticles Supported on MFI (Mobile Five) Zeolite Nanosheets. Catalysts, 2019, 9, 670.	1.6	5
39	Sulfonium-based organic structure-directing agents for microporous aluminophosphate synthesis. Microporous and Mesoporous Materials, 2019, 280, 75-81.	2.2	5
40	Effect of Mesoporosity on Methanol-to-Olefin Reactions over Organosilane-Directed Mesoporous SSZ-13 Zeolites. Bulletin of the Korean Chemical Society, 2020, 41, 595-598.	1.0	4
41	Nickel Nanoparticles Supported on Nonreducible Mesoporous Materials: Effects of Framework Types on the Catalytic Decomposition of Methane. Bulletin of the Korean Chemical Society, 2021, 42, 168-171.	1.0	1
42	Mesoporous In-Sn binary oxides of crystalline framework with extended compositional variation. Microporous and Mesoporous Materials, 2016, 228, 14-21.	2.2	0
43	Post-Synthesis Functionalization Enables Fine-Tuning the Molecular Sieving Properties of Zeolites for Light Olefin/Paraffin Separations (Adv. Mater. 48/2021). Advanced Materials, 2021, 33, 2170376.	11.1	0