

Eun-Bum Cho

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72
papers

1,182
citations

20
h-index

32
g-index

79
ext. papers

1,342
ext. citations

5.2
avg, IF

4.73
L-index

#	Paper	IF	Citations
72	High hydrothermal stability of mesoporous Ni-phyllsilicate spherical particles. <i>Applied Surface Science</i> , 2022 , 590, 153114	6.7	0
71	Synergistic benefits for hydrogen production through CO ₂ -cofeeding catalytic pyrolysis of cellulosic biomass waste. <i>Cellulose</i> , 2021 , 28, 4781-4792	5.5	3
70	Hollow mesoporous silica nanospheres using pentablock copolymer micelle templates. <i>Ceramics International</i> , 2021 , 47, 13351-13362	5.1	3
69	Mesoporous Mn-doped hydroxyapatite nanorods obtained via pyridinium chloride enabled microwave-assisted synthesis by utilizing <i>Donax variabilis</i> seashells for implant applications. <i>Materials Science and Engineering C</i> , 2021 , 126, 112170	8.3	0
68	Microwave-assisted synthesis of various Cu ₂ O/Cu/TiO ₂ and Cu _x S/TiO ₂ composite nanoparticles towards visible-light photocatalytic applications. <i>Materials Chemistry and Physics</i> , 2021 , 259, 123986	4.4	2
67	Microwave-assisted synthesis of superparamagnetic mesoporous Co-doped hydroxyapatite nanorods for various biomedical applications. <i>Ceramics International</i> , 2021 , 47, 8642-8652	5.1	3
66	Sustainable Syntheses and Sources of Nanomaterials for Microbial Fuel/Electrolysis Cell Applications: An Overview of Recent Progress. <i>Processes</i> , 2021 , 9, 1221	2.9	6
65	Unveiling redox-boosted mesoporous Co@NiO@BiO ₂ hybrid composite with hetero-morphologies as an electrode candidate for durable hybrid supercapacitors. <i>Journal of Materials Research and Technology</i> , 2021 , 13, 1899-1907	5.5	1
64	Fenton Stability of Mesoporous Ceria-Silica and Its Role in Enhanced Durability of Poly(arylene ether sulfone) Multiblock Copolymer Composite Membranes for Perfluorosulfonic Acid Alternatives. <i>ACS Omega</i> , 2021 , 6, 25551-25561	3.9	0
63	Newly Designed Mesoporous Silica and Organosilica Nanostructures Based on Pentablock Copolymer Templates in Weakly Acidic Media. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
62	High seebeck coefficient thermo-electrochemical cell using nickel hollow microspheres electrodes. <i>Renewable Energy</i> , 2020 , 157, 1-8	8.1	20
61	Data on the current-voltage dependents of nickel hollow microspheres based thermo-electrochemical in alkaline electrolyte. <i>Data in Brief</i> , 2020 , 31, 105770	1.2	1
60	Atmospheric Hydrodeoxygenation of Anisole to Hydrocarbons Over Ni Supported on Mesoporous Silica. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 5734-5737	1.3	
59	Yellow Poplar Gasification Over Ni Silicate and Ni/Silica. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 5667-5670	1.3	
58	Hydrocarbons Production from m-Cresol as a Lignin Model Compound Over Nickel Silicate Catalysts. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 5738-5741	1.3	
57	Multifunctional periodic mesoporous benzene-silicas for evaluation of CO ₂ adsorption at standard temperature and pressure. <i>Microporous and Mesoporous Materials</i> , 2020 , 293, 109816	5.3	7
56	Simultaneous hydrogen production and pollutant degradation by photocatalysis of wastewater using liquid phase plasma. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 24028-24036	6.7	5

55	Mesoporous Mg-doped hydroxyapatite nanorods prepared from bio-waste blue mussel shells for implant applications. <i>Ceramics International</i> , 2020 , 46, 28514-28527	5.1	4
54	Recent Trends in Morphology-Controlled Synthesis and Application of Mesoporous Silica Nanoparticles. <i>Nanomaterials</i> , 2020 , 10,	5.4	24
53	Role of block copolymer template for tailoring crystal structure and band gap of titania in mesoporous silica and organosilica particles. <i>Ceramics International</i> , 2020 , 46, 2163-2172	5.1	1
52	Superparamagnetic NiO-doped mesoporous silica flower-like microspheres with high nickel content. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 81, 99-107	6.3	4
51	Sodium dodecyl sulfate mediated microwave synthesis of biocompatible superparamagnetic mesoporous hydroxyapatite nanoparticles using black <i>Chlamys varia</i> seashell as a calcium source for biomedical applications. <i>Ceramics International</i> , 2019 , 45, 15143-15155	5.1	12
50	Ascorbic Acid-Assisted Microwave Synthesis of Mesoporous Ag-Doped Hydroxyapatite Nanorods from Biowaste Seashells for Implant Applications.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 2280-2293	4.1	23
49	Preparation of silicon oxide-carbon composite from benzene and trimethoxyphenylsilane by a liquid phase plasma method for supercapacitor applications. <i>Applied Surface Science</i> , 2019 , 481, 625-631	6.7	8
48	pH-triggered intracellular release of doxorubicin from polyaspartamide-encapsulated mesoporous silica nanoparticles. <i>Korean Journal of Chemical Engineering</i> , 2019 , 36, 166-172	2.8	6
47	Upgrading of Organosolv Lignin- and Cellulose-Derived Pyrolyzates Over Ce-MCM-41 Catalyst. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 1162-1165	1.3	1
46	Microwave-assisted hydrothermal synthesis of mesoporous carbonated hydroxyapatite with tunable nanoscale characteristics for biomedical applications. <i>Ceramics International</i> , 2019 , 45, 970-977	5.1	26
45	Tailoring Pore Size, Structure, and Morphology of Hierarchical Mesoporous Silica Using Diblock and Pentablock Copolymer Templates. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 4507-4516	3.8	13
44	Preparation of polycarbonate/poly(acrylonitrile-butadiene-styrene)/mesoporous silica nanocomposite films and its rheological, mechanical, and sound absorption properties. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45777	2.9	4
43	Facile One-Pot Synthesis of Yolk-Shell Structured Ni Doped Mesoporous Silica and Its Application in Enzyme-Free Glucose Sensor. <i>ChemistrySelect</i> , 2018 , 3, 6029-6034	1.8	3
42	Synthesis of ordered Ca- and Li-doped mesoporous silicas for H and CO adsorption at ambient temperature and pressure.. <i>RSC Advances</i> , 2018 , 8, 35294-35305	3.7	6
41	Hollow mesoporous organosilica nanospheres templated with flower-like micelles of pentablock copolymers. <i>Journal of Colloid and Interface Science</i> , 2018 , 528, 124-134	9.3	13
40	Surfactant-assisted synthesis of ceria-titania-rich mesoporous silica materials and their catalytic activity towards photodegradation of organic dyes. <i>Dalton Transactions</i> , 2017 , 46, 9577-9590	4.3	7
39	Preparation of highly ordered mesoporous ethane-silicas under weakly acidic conditions and their hydrothermal stability. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21378-21388	13	4
38	Ceria-Containing Ordered Mesoporous Silica: Synthesis, Properties, and Applications. <i>ChemCatChem</i> , 2016 , 8, 285-303	5.2	19

37	Mesoporous ceria-silica/poly(arylene ether sulfone) composite membranes for durability of fuel cell electrolyte membrane. <i>Microporous and Mesoporous Materials</i> , 2016 , 236, 292-300	5.3	20
36	H ₂ and CO ₂ uptake for hydrogen titanate (H ₂ Ti ₃ O ₇) nanotubes and nanorods at ambient temperature and pressure. <i>Chemical Engineering Journal</i> , 2016 , 303, 64-72	14.7	7
35	CO ₂ adsorption on amine-functionalized periodic mesoporous benzenesilicas. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6792-802	9.5	78
34	Catalytic activity of CeIVO ₂ /Ce ₂ III ₂ O ₃ -silica mesoporous composite materials for oxidation and esterification reactions. <i>Chemical Engineering Journal</i> , 2015 , 262, 1116-1125	14.7	17
33	Synthesis of ordered mesoporous silica/ceria-silica composites and their high catalytic performance for solvent-free oxidation of benzyl alcohol at room temperature. <i>RSC Advances</i> , 2014 , 4, 9213-9222	3.7	31
32	Mn-Doped Ordered Mesoporous Ceria-Silica Composites and Their Catalytic Properties toward Biofuel Production. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15892-15901	3.8	23
31	Synthesis and Micellar Characterization of CBABC Type PLGA-PEO-PPO-PEO-PLGA Pentablock Copolymers. <i>Bulletin of the Korean Chemical Society</i> , 2014 , 35, 2342-2348	1.2	4
30	Role of phosphate-modified mesoporous silica nanoparticles for altering biomimetic metal-induced aggregation process of pluronic F127 block copolymer. <i>Materials Letters</i> , 2013 , 110, 176-179	3.3	2
29	Structural Stability of Si-O Bonds in Periodic Mesoporous Thiophene-Silicas Prepared under Acidic Conditions. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 21441-21449	3.8	7
28	Surfactant-assisted synthesis of mesoporous silica/ceria-silica composites with high cerium content under basic conditions. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12595	13	24
27	Benzene-Silica with Hexagonal and Cubic Ordered Mesostructures Synthesized in the Presence of Block Copolymers and Weak Acid Catalysts. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16023-16029	3.8	11
26	Periodic Mesoporous Benzene-Silicas Prepared Using Boric Acid as Catalyst. <i>Chemistry of Materials</i> , 2011 , 23, 1971-1976	9.6	27
25	Synthesis of ultrabright nanoporous fluorescent silica discoids using an inorganic silica precursor. <i>Nanoscale</i> , 2011 , 3, 2036-43	7.7	20
24	Sulfonated PEEK/cubic (Im ₃ m) mesoporous benzene-silica composite membranes operable at low humidity. <i>Solid State Ionics</i> , 2011 , 203, 1-8	3.3	14
23	Ultrabright Fluorescent Silica Mesoporous Silica Nanoparticles: Control of Particle Size and Dye Loading. <i>Advanced Functional Materials</i> , 2011 , 21, 3129-3135	15.6	69
22	Multifunctional periodic mesoporous organosilicas with bridging groups formed via dynamic covalent chemistry. <i>Chemical Communications</i> , 2010 , 46, 4568-70	5.8	20
21	Enhanced transport performance of sulfonated mesoporous benzene-silica incorporated poly(ether ether ketone) composite membranes for fuel cell application. <i>Journal of Membrane Science</i> , 2010 , 351, 58-64	9.6	31
20	Ultrabright fluorescent mesoporous silica nanoparticles. <i>Small</i> , 2010 , 6, 2314-9	11	64

19	Preparation of mesoporous benzene-silica nanoparticles. <i>Microporous and Mesoporous Materials</i> , 2009 , 120, 252-256	5.3	20
18	Bifunctional periodic mesoporous organosilicas with thiophene and isocyanurate bridging groups. <i>Langmuir</i> , 2009 , 25, 13258-63	4	25
17	Three-dimensional cubic (Im3m) periodic mesoporous organosilicas with benzene- and thiophene-bridging groups. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2076		42
16	Periodic Mesoporous Benzene- and Thiophene-Silicas Prepared Using Aluminum Chloride as an Acid Catalyst: Effect of Aluminum Salt/Organosilane Ratio and Stirring Time. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5111-5119	3.8	12
15	Effect of morphology and pore size of sulfonated mesoporous benzene-silicas in the preparation of poly(vinyl alcohol)-based hybrid nanocomposite membranes for direct methanol fuel cell application. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 9770-8	3.4	34
14	SAXS and NMR analysis for the cast solvent effect on SPEEK membrane properties. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 10072-6	3.4	61
13	Monodisperse Particles of Bifunctional Periodic Mesoporous Organosilica. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4897-4902	3.8	35
12	Role of Aluminum Salts in the Synthesis of Polymer-Templated Periodic Mesoporous Organosilicas. <i>Chemistry of Materials</i> , 2008 , 20, 2468-2475	9.6	12
11	Direct synthesis of sulfonic acid-functionalized periodic mesoporous benzene-silicas with large pores. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 1142-1146	3.9	12
10	Multifunctional periodic mesoporous organosilicas prepared with block copolymer: Composition effect on morphology. <i>Microporous and Mesoporous Materials</i> , 2008 , 113, 530-537	5.3	12
9	Synthesis of acryl phosphate antistatic agent and its effect on the antistatic, thermal and mechanical properties of PMMA. <i>Macromolecular Research</i> , 2007 , 15, 617-622	1.9	11
8	Synthesis of highly ordered mesoporous benzene-silicas using PEO-BLGABEO triblock copolymers. <i>Studies in Surface Science and Catalysis</i> , 2007 , 437-441	1.8	
7	Preparation of Highly Ordered Mesoporous Thiophene-Silica with Spherical Macrostructure. <i>Chemistry Letters</i> , 2007 , 36, 118-119	1.7	9
6	Nonradiative Energy Transfer in Chromophore-Tagged PS-BEO Diblock Copolymers. <i>Macromolecular Symposia</i> , 2007 , 249-250, 437-444	0.8	1
5	Periodic mesoporous organosilicas with multiple bridging groups and spherical morphology. <i>Langmuir</i> , 2007 , 23, 11844-9	4	45
4	Macromolecular Templating Approach for the Synthesis of Hydrothermally Stable Mesoporous Organosilicas with High Periodicity and Thick Framework Walls. <i>Chemistry of Materials</i> , 2004 , 16, 270-279	9.6	77
3	Mesoporous Organosilicas Prepared with PEO-Containing Triblock Copolymers with Different Hydrophobic Moieties. <i>Chemistry of Materials</i> , 2001 , 13, 3837-3839	9.6	70
2	Sol-gel synthesis and characterization of mesoporous organosilicas by using block copolymer templates. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 634, 6131		

- 1 Hierarchical multi-metal-doped mesoporous NiO-silica nanoparticles towards a viable platform for Li-ion battery electrode application. *Korean Journal of Chemical Engineering*, 1 2.8 ○