Hae Jin Kim

List of Publications by Year
in descending order

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82 papers	2,730 citations	201385 27 h-index	197535 49 g-index
82 all docs	82 docs citations	82 times ranked	3827 citing authors

#	Article	IF	Citations
1	Revealing molecular-level surface redox sites of controllably oxidized black phosphorus nanosheets. Nature Materials, 2019, 18, 156-162.	13.3	215
2	Metalâ€“Organic Framework@Microporous Organic Network: Hydrophobic Adsorbents with a Crystalline Inner Porosity. Journal of the American Chemical Society, 2014, 136, 6786-6789.	6.6	200
3	Microporous Organic Network Hollow Spheres: Useful Templates for Nanoparticulate Co₃O₄ Hollow Oxidation Catalysts. Journal of the American Chemical Society, 2013, 135, 19115-19118.	6.6	188
4	Tubular microporous organic networks bearing imidazolium salts and their catalytic CO₂conversion to cyclic carbonates. Chemical Communications, 2011, 47, 917-919.	2.2	157
5	Extremely Durable, Flexible Supercapacitors with Greatly Improved Performance at High Temperatures. ACS Nano, 2015, 9, 8569-8577.	7.3	113
6	Microporous organic networks bearing metal-salen species for mild CO2 fixation to cyclic carbonates. Journal of Materials Chemistry A, 2013, 1, 5517.	5.2	110
7	Highly visible-light active nanoporous TiO2 photocatalysts for efficient solar photocatalytic applications. Applied Catalysis B: Environmental, 2013, 129, 106-113.	10.8	90
8	Tubular-Shape Evolution of Microporous Organic Networks. Chemistry of Materials, 2012, 24, 3458-3463.	3.2	81
9	Efficient photocatalytic production of hydrogen by exploiting the polydopamine-semiconductor interface. Applied Catalysis B: Environmental, 2021, 280, 119423.	10.8	77
10	Hollow Microporous Organic Networks Bearing Triphenylamines and Anthraquinones: Diffusion Pathway Effect in Visible Light-Driven Oxidative Coupling of Benzylamines. ACS Macro Letters, 2015, 4, 669-672.	2.3	68
11	Thermally modulated multilayered graphene oxide for hydrogen storage. Physical Chemistry Chemical Physics, 2012, 14, 1480-1484.	1.3	67
12	Fe3O4 nanosphere@microporous organic networks: enhanced anode performances in lithium ion batteries through carbonization. Chemical Communications, 2014, 50, 7723.	2.2	57
13	Hollow and Microporous Znâ€“Porphyrin Networks: Outer Shape Dependent Ammonia Sensing by Quartz Crystal Microbalance. Chemistry of Materials, 2015, 27, 5845-5848.	3.2	54
14	Hollow and microporous catalysts bearing Cr(<scp>iii</scp>)â€“F porphyrins for room temperature CO₂ fixation to cyclic carbonates. Journal of Materials Chemistry A, 2017, 5, 23612-23619.	5.2	49
15	Folate decorated hollow spheres of microporous organic networks as drug delivery materials. Chemical Communications, 2018, 54, 3652-3655.	2.2	48
16	One-Pot Formation of Sbâ€“Carbon Microspheres with Graphene Sheets: Potassium-Ion Storage Properties and Discharge Mechanisms. ACS Applied Materials & Interfaces, 2019, 11, 27973-27981.	4.0	46
17	Hollow structural effect of microporous organocatalytic polymers with pyrrolidines: dramatic enhancement of catalytic performance. Journal of Materials Chemistry A, 2017, 5, 8922-8926.	5.2	45
18	Pore characterization of multi-walled carbon nanotubes modified by KOH. Chemical Physics Letters, 2005, 416, 251-255.	1.2	42

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19	Triple-, Double-, and Single-Shelled Hollow Spheres of Sulfonated Microporous Organic Network as Drug Delivery Materials. Chemistry of Materials, 2019, 31, 300-304.	3.2	42
20	Ultrasound-assisted synthesis of Li-rich mesoporous LiMn2O4 nanospheres for enhancing the electrochemical performance in Li-ion secondary batteries. Ultrasonics Sonochemistry, 2012, 19, 627-631.	3.8	37
21	Hollow and microporous triphenylamine networks post-modified with TCNE for enhanced organocathode performance. Chemical Communications, 2017, 53, 8778-8781.	2.2	37
22	Tandem generation of isocoumarins in hollow microporous organic networks: nitrophenol sensing based on visible light. Journal of Materials Chemistry A, 2016, 4, 8010-8014.	5.2	34
23	Hollow and Microporous Organic Polymers Bearing Sulfonic Acids: Antifouling Seed Materials for Polyketone Synthesis. ACS Macro Letters, 2016, 5, 1322-1326.	2.3	33
24	Investigation on the existence of optimum interlayer distance for H2 uptake using pillared-graphene oxide. International Journal of Hydrogen Energy, 2012, 37, 14217-14222.	3.8	32
25	Enhancement of hydrogen storage capacity in polyaniline-vanadium pentoxide nanocomposites. International Journal of Hydrogen Energy, 2010, 35, 1300-1304.	3.8	31
26	Engineering of Snâ€“porphyrin networks on the silica surface: sensing of nitrophenols in water. Chemical Communications, 2015, 51, 8781-8784.	2.2	30
27	Fe₃O₄@Void@Microporous Organic Polymer-Based Multifunctional Drug Delivery Systems: Targeting, Imaging, and Magneto-Thermal Behaviors. ACS Applied Materials & Interfaces, 2020, 12, 37628-37636.	4.0	30
28	Insights into the low surface area of conjugated microporous polymers and methodological suggestion for the enhancement of porosity. Polymer Chemistry, 2015, 6, 7363-7367.	1.9	29
29	Hyper-Cross-Linked Polymer on the Hollow Conjugated Microporous Polymer Platform: A Heterogeneous Catalytic System for Poly(caprolactone) Synthesis. ACS Macro Letters, 2019, 8, 687-693.	2.3	28
30	A Polysulfide-Infiltrated Carbon Cloth Cathode for High-Performance Flexible Lithiumâ€“Sulfur Batteries. Nanomaterials, 2018, 8, 90.	1.9	27
31	Transport and Durability of Energy Storage Materials Operating at High Temperatures. ACS Nano, 2020, 14, 7696-7703.	7.3	27
32	Facile synthesis route to highly crystalline mesoporous Î³-MnO2 nanospheres. Electrochemistry Communications, 2012, 14, 32-35.	2.3	26
33	Thin and Small N-Doped Carbon Boxes Obtained from Microporous Organic Networks and Their Excellent Energy Storage Performance at High Current Densities in Coin Cell Supercapacitors. ACS Sustainable Chemistry and Engineering, 2018, 6, 3525-3532.	3.2	24
34	Skeleton Carbonylation of Conjugated Microporous Polymers by Osmium Catalysis for Amine-Rich Functionalization. ACS Macro Letters, 2018, 7, 1353-1358.	2.3	23
35	In Situ Water-Compatible Polymer Entrapment: A Strategy for Transferring Superhydrophobic Microporous Organic Polymers to Water. ACS Macro Letters, 2018, 7, 651-655.	2.3	22
36	Porous carbon microspheres with highly graphitized structure for potassium-ion storage. Journal of Colloid and Interface Science, 2020, 577, 48-53.	5.0	22

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37	Thin Coating of Microporous Organic Network Makes a Big Difference: Sustainability Issue of Ni Electrodes on the PET Textile for Flexible Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 36936-36943.	4.0	21
38	Visible-light-driven dynamic cancer therapy and imaging using graphitic carbon nitride nanoparticles. Materials Science and Engineering C, 2018, 90, 531-538.	3.8	20
39	Rosette-shaped graphitic carbon nitride acts as a peroxidase mimic in a wide pH range for fluorescence-based determination of glucose with glucose oxidase. Mikrochimica Acta, 2020, 187, 286.	2.5	20
40	Colorimetric determination of phenolic compounds using peroxidase mimics based on biomolecule-free hybrid nanoflowers consisting of graphitic carbon nitride and copper. Mikrochimica Acta, 2021, 188, 293.	2.5	20
41	Dual role of Cu₂O nanocubes as templates and networking catalysts for hollow and microporous Fe-porphyrin networks. Chemical Communications, 2017, 53, 2598-2601.	2.2	18
42	Adsorption properties of N2, H2 on single-walled carbon nanotubes modified by KOH. Chemical Physics Letters, 2006, 432, 518-522.	1.2	17
43	Carbon dioxide capture on primary amine groups entrapped in activated carbon at low temperatures. Journal of Industrial and Engineering Chemistry, 2015, 23, 16-20.	2.9	17
44	Electrochemical Sensors Based on Au-ZnS Hybrid Nanorods with Au-Mediated Efficient Electron Relay. ACS Sustainable Chemistry and Engineering, 2019, 7, 4094-4102.	3.2	17
45	Crystal and electronic facet analysis of ultrafine Ni2P particles by solid-state NMR nanocrystallography. Nature Communications, 2021, 12, 4334.	5.8	17
46	Network-controlled unique reactivities of carbonyl groups in hollow and microporous organic polymer. Chemical Communications, 2018, 54, 5134-5137.	2.2	16
47	A one building block approach for defect-enhanced conjugated microporous polymers: defect utilization for recyclable and catalytic biomass conversion. Journal of Materials Chemistry A, 2018, 6, 15553-15557.	5.2	16
48	Thick freeâ€standing electrode based on carbonâ€“carbon nitride microspheres with large mesopores for highâ€energyâ€density lithiumâ€“sulfur batteries. , 2021, 3, 410-423.		16
49	Valorization of Click-Based Microporous Organic Polymer: Generation of Mesoionic Carbeneâ€“Rh Species for the Stereoselective Synthesis of Poly(arylacetylene)s. Journal of the American Chemical Society, 2021, 143, 4100-4105.	6.6	15
50	Iron Coordination to Hollow Microporous Metalâ€Free Disalphen Networks: Heterogeneous Iron Catalysts for CO₂ Fixation to Cyclic Carbonates. Chemistry - A European Journal, 2020, 26, 788-794.	1.7	14
51	Electrocatalytic and stoichiometric reactivity of 2D layered siloxene for highâ€energyâ€dense lithiumâ€“sulfur batteries. , 2021, 3, 976-990.		14
52	Hydrogen adsorption characteristics of Li-dispersed silica nanotubes. Chemical Physics Letters, 2007, 436, 162-166.	1.2	13
53	Preparation and characterization of bicrystalline TiO2 photocatalysts with high crystallinity and large surface area. Materials Letters, 2012, 79, 191-194.	1.3	13
54	Resolving Dirac electrons with broadband high-resolution NMR. Nature Communications, 2020, 11, 1285.	5.8	13

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55	Microporous Organic Nanoparticles Anchoring CeO₂ Materials: Reduced Toxicity and Efficient Reactive Oxygen Speciesâ€Scavenging for Regenerative Wound Healing. ChemNanoMat, 2020, 6, 1104-1110.	1.5	13
56	Colloidal Template Synthesis of Nanomaterials by Using Microporous Organic Nanoparticles: The Case of C@MoS 2 Nanoadsorbents. Chemistry - an Asian Journal, 2019, 14, 3173-3180.	1.7	12
57	Aligned Tubular Conjugated Microporous Polymer Films for the Aggregationâ€Induced Emissionâ€Based Sensing of Explosives. Macromolecular Chemistry and Physics, 2019, 220, 1900157.	1.1	12
58	Triboelectric energy harvesting using conjugated microporous polymer nanoparticles in polyurethane films. Journal of Materials Chemistry A, 2021, 9, 12560-12565.	5.2	12
59	Noncovalent and covalent double assembly: unravelling a unified mechanism for the tubular shape evolution of microporous organic polymers. Journal of Materials Chemistry A, 2019, 7, 7859-7866.	5.2	11
60	The performance of green carbon as a backbone for hydrogen storage materials. International Journal of Hydrogen Energy, 2020, 45, 10516-10522.	3.8	11
61	Fabrication of Poly(ethylene terephthalate) Fiber@Microporous Organic Polymer with Amino Groups@Cu Films for Flexible and Metal-Economical Electromagnetic Interference Shielding Materials. Langmuir, 2020, 36, 8745-8752.	1.6	11
62	Nanoceria-based lateral flow immunoassay for hydrogen peroxide-free colorimetric biosensing for C-reactive protein. Analytical and Bioanalytical Chemistry, 2022, 414, 3257-3265.	1.9	11
63	Morphology engineering of a Suzuki coupling-based microporous organic polymer (MOP) using a Sonogashira coupling-based MOP for enhanced nitrophenol sensing in water. Chemical Communications, 2019, 55, 9515-9518.	2.2	10
64	Poly(ethylene terephthalate) Fibers with a Thin Layer of Clickâ€Based Microporous Organic Network: Enhanced Capture Performance toward PM_{2.5}. Advanced Materials Interfaces, 2018, 5, 1800628.	1.9	9
65	Nanoporous Organic Network Coating of Nanostructured Polymer Films with Enhanced Adsorption Performance toward Particulate Matter. ACS Applied Materials & Interfaces, 2019, 11, 1748-1753.	4.0	9
66	AB₂ polymerization on hollow microporous organic polymers: engineering of solid acid catalysts for the synthesis of soluble cellulose derivatives. Polymer Chemistry, 2020, 11, 789-794.	1.9	8
67	Surfactant-assisted synthesis of hybrid lithium iron phosphate nanoparticles for enhancing electrochemical performance. Journal of Solid State Chemistry, 2013, 197, 53-59.	1.4	7
68	Concomitant shape and palladium engineering of hollow conjugated microporous photocatalysts to boost visible light-induced hydrogen evolution. Journal of Materials Chemistry A, 2021, 9, 22262-22268.	5.2	7
69	Hydrogen Spillover in Pdâ€doped V₂O₅ Nanowires at Room Temperature. Chemistry - an Asian Journal, 2012, 7, 684-687.	1.7	6
70	Boosting Visibleâ€Light Photocatalytic Redox Reaction by Charge Separation in SnO₂/ZnSe(N₂H₄)_{0.5} Heterojunction Nanocatalysts. Chemistry - A European Journal, 2020, 26, 10510-10518.	1.7	6
71	Microporous organic network nanoparticles for dual chemo-photodynamic cancer therapy. Journal of Materials Chemistry B, 2019, 7, 4118-4123.	2.9	5
72	Monitoring the multiphasic evolution of bismuth telluride nanoplatelets. CrystEngComm, 2020, 22, 7918-7928.	1.3	5

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73	Concomitant Covalent and Noncovalent Assembly: Self-Assembly of Sublimable Caffeine in the Formation of Microporous Organic Polymer for Morphology Evolution and Enhanced Performance. ACS Sustainable Chemistry and Engineering, 2020, 8, 13900-13907.	3.2	5
74	H2 uptake and synthesis of the fluorinated Li-dispersed nickel oxide nanotubes. Catalysis Today, 2007, 120, 363-367.	2.2	4
75	Canted antiferromagnetism on a nanodimensional spherical surface geometry: The case of MnCO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>small hollow nanospheres. Physical Review B, 2012, 86, .	1.1	4
76	Stable cycling via absolute intercalation in graphite-based lithium-ion battery incorporated by solidified ether-based polymer electrolyte. Materials Advances, 2021, 2, 3898-3905.	2.6	4
77	Oxidation Control of 5-Hydroxymethylfurfural to Polymer Building Blocks by Au Clusters and Nanoparticles on Hollow CeO₂ Spheres. ACS Applied Nano Materials, 2022, 5, 4603-4608.	2.4	4
78	Exceptional electrochemical performance of two-year aged V2O5 nanowires for lithium storage. Current Applied Physics, 2015, 15, 1488-1491.	1.1	2
79	Effect of Oxygen for Enhancing the Gas Storage Performance of Activated Green Carbon. Energies, 2020, 13, 3893.	1.6	2
80	Optimum interlayer distance for hydrogen storage in pillared-graphene oxide determined by H2 pressure-dependent electrical conductance. International Journal of Hydrogen Energy, 2018, 43, 16136-16140.	3.8	1
81	Defect-rich CeO₂ in a hollow carbon matrix engineered from a microporous organic platform: a hydroxide-assisted high performance pseudocapacitive material. Nanoscale, 2021, 13, 18173-18181.	2.8	1
82	Back Cover Image, Volume 3, Number 3, July 2021. , 2021, 3, ii.		0