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	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
2	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
3	Efficient photocatalytic production of hydrogen by exploiting the polydopamine-semiconductor interface. Applied Catalysis B: Environmental, 2021, 280, 119423.	10.8	77
4	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
5	Triboelectric energy harvesting using conjugated microporous polymer nanoparticles in polyurethane films. Journal of Materials Chemistry A, 2021, 9, 12560-12565.	5.2	12
6	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
7	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
8	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
9	Back Cover Image, Volume 3, Number 3, July 2021. , 2021, 3, ii.		0
10	Crystal and electronic facet analysis of ultrafine Ni2P particles by solid-state NMR nanocrystallography. Nature Communications, 2021, 12, 4334.	5.8	17
11	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
12	Electrocatalytic and stoichiometric reactivity of 2D layered siloxene for highâ€energyâ€dense lithiumâ€“sulfur batteries. , 2021, 3, 976-990.		14
13	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
14	The performance of green carbon as a backbone for hydrogen storage materials. International Journal of Hydrogen Energy, 2020, 45, 10516-10522.	3.8	11
15	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
16	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
17	Monitoring the multiphasic evolution of bismuth telluride nanoplatelets. CrystEngComm, 2020, 22, 7918-7928.	1.3	5
18	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

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19	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
20	Effect of Oxygen for Enhancing the Gas Storage Performance of Activated Green Carbon. Energies, 2020, 13, 3893.	1.6	2
21	Transport and Durability of Energy Storage Materials Operating at High Temperatures. ACS Nano, 2020, 14, 7696-7703.	7.3	27
22	Resolving Dirac electrons with broadband high-resolution NMR. Nature Communications, 2020, 11, 1285.	5.8	13
23	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
24	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
25	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
26	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
27	Porous carbon microspheres with highly graphitized structure for potassium-ion storage. Journal of Colloid and Interface Science, 2020, 577, 48-53.	5.0	22
28	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
29	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
30	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
31	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
32	Microporous organic network nanoparticles for dual chemo-photodynamic cancer therapy. Journal of Materials Chemistry B, 2019, 7, 4118-4123.	2.9	5
33	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
34	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
35	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
36	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

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37	Revealing molecular-level surface redox sites of controllably oxidized black phosphorus nanosheets. Nature Materials, 2019, 18, 156-162.	13.3	215
38	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
39	Network-controlled unique reactivities of carbonyl groups in hollow and microporous organic polymer. Chemical Communications, 2018, 54, 5134-5137.	2.2	16
40	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
41	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
42	Folate decorated hollow spheres of microporous organic networks as drug delivery materials. Chemical Communications, 2018, 54, 3652-3655.	2.2	48
43	Skeleton Carbonylation of Conjugated Microporous Polymers by Osmium Catalysis for Amine-Rich Functionalization. ACS Macro Letters, 2018, 7, 1353-1358.	2.3	23
44	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
45	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
46	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
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	A Polysulfide-Infiltrated Carbon Cloth Cathode for High-Performance Flexible Lithiumâ€“Sulfur Batteries. Nanomaterials, 2018, 8, 90.	1.9	27
49	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
50	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
51	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
52	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
53	Hollow and microporous triphenylamine networks post-modified with TCNE for enhanced organocathode performance. Chemical Communications, 2017, 53, 8778-8781.	2.2	37
54	Hollow and Microporous Organic Polymers Bearing Sulfonic Acids: Antifouling Seed Materials for Polyketone Synthesis. ACS Macro Letters, 2016, 5, 1322-1326.	2.3	33

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55	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
56	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
57	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
58	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
59	Extremely Durable, Flexible Supercapacitors with Greatly Improved Performance at High Temperatures. ACS Nano, 2015, 9, 8569-8577.	7.3	113
60	Engineering of Snâ€“porphyrin networks on the silica surface: sensing of nitrophenols in water. Chemical Communications, 2015, 51, 8781-8784.	2.2	30
61	Exceptional electrochemical performance of two-year aged V2O5 nanowires for lithium storage. Current Applied Physics, 2015, 15, 1488-1491.	1.1	2
62	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
63	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
64	Fe3O4 nanosphere@microporous organic networks: enhanced anode performances in lithium ion batteries through carbonization. Chemical Communications, 2014, 50, 7723.	2.2	57
65	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
66	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
67	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
68	Highly visible-light active nanoporous TiO2 photocatalysts for efficient solar photocatalytic applications. Applied Catalysis B: Environmental, 2013, 129, 106-113.	10.8	90
69	Thermally modulated multilayered graphene oxide for hydrogen storage. Physical Chemistry Chemical Physics, 2012, 14, 1480-1484.	1.3	67
70	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
71	Tubular-Shape Evolution of Microporous Organic Networks. Chemistry of Materials, 2012, 24, 3458-3463.	3.2	81
72	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

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73	Hydrogen Spillover in Pdâ€doped V₂O₅ Nanowires at Room Temperature. Chemistry - an Asian Journal, 2012, 7, 684-687.	1.7	6
74	Facile synthesis route to highly crystalline mesoporous Î³-MnO2 nanospheres. Electrochemistry Communications, 2012, 14, 32-35.	2.3	26
75	Preparation and characterization of bicrystalline TiO2 photocatalysts with high crystallinity and large surface area. Materials Letters, 2012, 79, 191-194.	1.3	13
76	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
77	Tubular microporous organic networks bearing imidazolium salts and their catalytic CO₂conversion to cyclic carbonates. Chemical Communications, 2011, 47, 917-919.	2.2	157
78	Enhancement of hydrogen storage capacity in polyaniline-vanadium pentoxide nanocomposites. International Journal of Hydrogen Energy, 2010, 35, 1300-1304.	3.8	31
79	Hydrogen adsorption characteristics of Li-dispersed silica nanotubes. Chemical Physics Letters, 2007, 436, 162-166.	1.2	13
80	H2 uptake and synthesis of the fluorinated Li-dispersed nickel oxide nanotubes. Catalysis Today, 2007, 120, 363-367.	2.2	4
81	Adsorption properties of N2, H2 on single-walled carbon nanotubes modified by KOH. Chemical Physics Letters, 2006, 432, 518-522.	1.2	17
82	Pore characterization of multi-walled carbon nanotubes modified by KOH. Chemical Physics Letters, 2005, 416, 251-255.	1.2	42