

Young-Jung Heo

List of Publications by Year in descending order

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75
papers

6,452
citations

66343

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74163

75
g-index

77
all docs

77
docs citations

77
times ranked

7751
citing authors

#	ARTICLE	IF	CITATIONS
1	TiO ₂ photocatalyst for water treatment applications. Journal of Industrial and Engineering Chemistry, 2013, 19, 1761-1769.	5.8	743
2	A short review on basalt fiber reinforced polymer composites. Composites Part B: Engineering, 2015, 73, 166-180.	12.0	680
3	A review on solid adsorbents for carbon dioxide capture. Journal of Industrial and Engineering Chemistry, 2015, 23, 1-11.	5.8	540
4	Recent advanced thermal interfacial materials: A review of conducting mechanisms and parameters of carbon materials. Carbon, 2019, 142, 445-460.	10.3	246
5	Recent advances in preparations and applications of carbon aerogels: A review. Carbon, 2020, 163, 1-18.	10.3	246
6	Incorporation of RuO ₂ into charcoal-derived carbon with controllable microporosity by CO ₂ activation for high-performance supercapacitor. Carbon, 2017, 122, 287-297.	10.3	204
7	Determination of the optimal pore size for improved CO ₂ adsorption in activated carbon fibers. Journal of Colloid and Interface Science, 2013, 389, 230-235.	9.4	196
8	Advanced Design and Synthesis of Composite Photocatalysts for the Remediation of Wastewater: A Review. Catalysts, 2019, 9, 122.	3.5	185
9	Au-Pd bimetallic alloy nanoparticle-decorated BiPO ₄ nanorods for enhanced photocatalytic oxidation of trichloroethylene. Journal of Catalysis, 2017, 355, 1-10.	6.2	164
10	Solvent-free, one-pot synthesis of nitrogen-tailored alkali-activated microporous carbons with an efficient CO ₂ adsorption. Carbon, 2021, 172, 71-82.	10.3	137
11	Bimetallic AuPd alloy nanoparticles deposited on MoO ₃ nanowires for enhanced visible-light driven trichloroethylene degradation. Journal of Catalysis, 2018, 361, 238-247.	6.2	135
12	Chemically modified carbonaceous adsorbents for enhanced CO ₂ capture: A review. Journal of Cleaner Production, 2021, 290, 125776.	9.3	125
13	Synthesis and characterization of reduced graphene oxide decorated with CeO ₂ -doped MnO ₂ nanorods for supercapacitor applications. Journal of Colloid and Interface Science, 2017, 494, 338-344.	9.4	118
14	Studies on pore structures and surface functional groups of pitch-based activated carbon fibers. Journal of Colloid and Interface Science, 2003, 260, 259-264.	9.4	108
15	Formation of hollow MoO ₃ /SnS ₂ heterostructured nanotubes for efficient light-driven hydrogen peroxide production. Journal of Materials Chemistry A, 2018, 6, 20304-20312.	10.3	106
16	In-situ synthesis of nanofibers with various ratios of BiOClx/BiOBry/BiOIz for effective trichloroethylene photocatalytic degradation. Applied Surface Science, 2016, 384, 192-199.	6.1	100
17	Electromagnetic interference shielding effectiveness of nickel-plated MWCNTs/high-density polyethylene composites. Composites Part B: Engineering, 2016, 98, 120-125.	12.0	98
18	Recent Advances in Carbonaceous Photocatalysts with Enhanced Photocatalytic Performances: A Mini Review. Materials, 2019, 12, 1916.	2.9	93

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19	Comparative study of activation methods to design nitrogen-doped ultra-microporous carbons as efficient contenders for CO ₂ capture. <i>Chemical Engineering Journal</i> , 2018, 352, 539-548.	12.7	88
20	Synthesis of activated carbon derived from rice husks for improving hydrogen storage capacity. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 31, 330-334.	5.8	82
21	Interlaminar and Ductile Characteristics of Carbon Fibers-Reinforced Plastics Produced by Nanoscaled Electroless Nickel Plating on Carbon Fiber Surfaces. <i>Journal of Colloid and Interface Science</i> , 2002, 245, 383-390.	9.4	81
22	Functionalized Carbon Materials for Electronic Devices: A Review. <i>Micromachines</i> , 2019, 10, 234.	2.9	81
23	Recent Advances in Organic Thermoelectric Materials: Principle Mechanisms and Emerging Carbon-Based Green Energy Materials. <i>Polymers</i> , 2019, 11, 167.	4.5	79
24	Effects of chemical treatment of carbon supports on electrochemical behaviors for platinum catalysts of fuel cells. <i>Journal of Power Sources</i> , 2006, 159, 42-45.	7.8	73
25	Surface characteristics of pitch-based carbon fibers by inverse gas chromatography method. <i>Carbon</i> , 1991, 29, 955-961.	10.3	68
26	Chemically modified sugarcane bagasse-based biocomposites for efficient removal of acid red 1 dye: Kinetics, isotherms, thermodynamics, and desorption studies. <i>Chemosphere</i> , 2022, 291, 132796.	8.2	68
27	A role of steam activation on CO ₂ capture and separation of narrow microporous carbons produced from cellulose fibers. <i>Energy</i> , 2015, 91, 142-150.	8.8	66
28	Preparation and photocatalytic activity of fly ash incorporated TiO ₂ nanofibers for effective removal of organic pollutants. <i>Ceramics International</i> , 2015, 41, 1771-1777.	4.8	64
29	MnO ₂ -decorated biochar composites of coconut shell and rice husk: An efficient lithium ions adsorption-desorption performance in aqueous media. <i>Chemosphere</i> , 2020, 260, 127500.	8.2	63
30	EMI shielding behaviors of Ni-coated MWCNTs-filled epoxy matrix nanocomposites. <i>Surface and Coatings Technology</i> , 2014, 242, 125-131.	4.8	61
31	Stabilizing CuPd bimetallic alloy nanoparticles deposited on holey carbon nitride for selective hydroxylation of benzene to phenol. <i>Journal of Catalysis</i> , 2019, 379, 154-163.	6.2	61
32	Effect of hydrophilic graphite flake on thermal conductivity and fracture toughness of basalt fibers/epoxy composites. <i>Composites Part B: Engineering</i> , 2018, 153, 9-16.	12.0	60
33	Effects of Microporosity and Surface Chemistry on Separation Performances of N-Containing Pitch-Based Activated Carbons for CO ₂ /N ₂ Binary Mixture. <i>Scientific Reports</i> , 2016, 6, 23224.	3.3	59
34	Chemically modified activated carbon decorated with MnO ₂ nanocomposites for improving lithium adsorption and recovery from aqueous media. <i>Journal of Alloys and Compounds</i> , 2019, 794, 425-434.	5.5	56
35	Valorization of shrimp shell biowaste for environmental remediation: Efficient contender for CO ₂ adsorption and separation. <i>Journal of Environmental Management</i> , 2021, 299, 113661.	7.8	56
36	Synthesis of PAN/PVDF nanofiber composites-based carbon adsorbents for CO ₂ capture. <i>Composites Part B: Engineering</i> , 2019, 156, 95-99.	12.0	53

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37	Facile Synthesis of MgO-Modified Carbon Adsorbents with Microwave-Assisted Methods: Effect of MgO Particles and Porosities on CO ₂ Capture. <i>Scientific Reports</i> , 2017, 7, 5653.	3.3	52
38	Photocatalytic Hydrogen Evolution via Water Splitting: A Short Review. <i>Catalysts</i> , 2018, 8, 655.	3.5	49
39	Phosphorus-doped g-C ₃ N ₄ /SnS nanocomposite for efficient photocatalytic reduction of aqueous Cr(VI) under visible light. <i>Applied Surface Science</i> , 2020, 531, 147325.	6.1	47
40	Carbon-Filled Organic Phase-Change Materials for Thermal Energy Storage: A Review. <i>Molecules</i> , 2019, 24, 2055.	3.8	45
41	Hybrid biochar supported transition metal doped MnO ₂ composites: Efficient contenders for lithium adsorption and recovery from aqueous solutions. <i>Desalination</i> , 2022, 522, 115387.	8.2	45
42	One-pot synthesis of CdS sensitized TiO ₂ decorated reduced graphene oxide nanosheets for the hydrolysis of ammonia-borane and the effective removal of organic pollutant from water. <i>Ceramics International</i> , 2016, 42, 15247-15252.	4.8	44
43	Large-scale Conductive Yarns Based on Twistable Korean Traditional Paper (Hanji) for Supercapacitor Applications: Toward High-performance Paper Supercapacitors. <i>Advanced Energy Materials</i> , 2018, 8, 1801854.	19.5	43
44	H ₂ O ₂ /steam activation as an eco-friendly and efficient top-down approach to enhancing porosity on carbonaceous materials: the effect of inevitable oxygen functionalities on CO ₂ capture. <i>Green Chemistry</i> , 2018, 20, 5224-5234.	9.0	42
45	Phosphorization-derived MoP@MoO _{3-x} nanowires for selective photocatalytic oxidation of benzyl alcohol to benzaldehyde. <i>Journal of Catalysis</i> , 2021, 394, 332-341.	6.2	34
46	Innovative progress in graphene derivative-based composite hybrid membranes for the removal of contaminants in wastewater: A review. <i>Chemosphere</i> , 2022, 306, 135590.	8.2	32
47	Effect of silica removal and steam activation on extra-porous activated carbons from rice husks for methane storage. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 22377-22384.	7.1	31
48	Defining contribution of micropore size to hydrogen physisorption behaviors: A new approach based on DFT pore volumes. <i>Carbon</i> , 2019, 143, 288-293.	10.3	31
49	Effect of Morphology of Calcium Carbonate on Toughness Behavior and Thermal Stability of Epoxy-Based Composites. <i>Processes</i> , 2019, 7, 178.	2.8	30
50	Effect of nickel ion doping in MnO ₂ /reduced graphene oxide nanocomposites for lithium adsorption and recovery from aqueous media. <i>RSC Advances</i> , 2020, 10, 9245-9257.	3.6	30
51	A study on optimal pore range for high pressure hydrogen storage behaviors by porous hard carbon materials prepared from a polymeric precursor. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 5894-5902.	7.1	28
52	Single-step solid-state synthesis and characterization of Li ₄ Ti ₅ Fe _x O _{12-y} (0 ≤ x < i> </i> ≤ 0.1) as an anode for 10.3 lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2627-2636.		28
53	Nanostructured multifunctional electrocatalysts for efficient energy conversion systems: Recent perspectives. <i>Nanotechnology Reviews</i> , 2021, 10, 137-157.	5.8	28
54	Effect of carbonization temperature on electrical conductivity of carbon papers prepared from petroleum pitch-coated glass fibers. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 1040-1043.	5.8	27

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55	Influence of electroless nickel-plating on fracture toughness of pitch-based carbon fibre reinforced composites. <i>Composites Part B: Engineering</i> , 2015, 76, 286-291.	12.0	27
56	Preparation and characterization of mesoporous activated carbons from nonporous hard carbon via enhanced steam activation strategy. <i>Materials Chemistry and Physics</i> , 2020, 242, 122454.	4.0	27
57	Activated Carbon/MnO ₂ Composites as Electrode for High Performance Supercapacitors. <i>Catalysts</i> , 2020, 10, 256.	3.5	27
58	Preparation and characterization of carbon black/pitch-based carbon fiber paper composites for gas diffusion layers. <i>Composites Part B: Engineering</i> , 2019, 159, 362-368.	12.0	26
59	Microwave-assisted acid functionalized carbon nanofibers decorated with Mn doped TNTs nanocomposites: Efficient contenders for lithium adsorption and recovery from aqueous media. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 92, 263-277.	5.8	26
60	Effect of Triblock Copolymer on Carbon-Based Boron Nitride Whiskers for Efficient CO ₂ Adsorption. <i>Polymers</i> , 2019, 11, 913.	4.5	22
61	Eucalyptus (<i>camaldulensis</i>) bark-based composites for efficient Basic Blue 41 dye biosorption from aqueous stream: Kinetics, isothermal, and thermodynamic studies. <i>Surfaces and Interfaces</i> , 2022, 31, 101897.	3.0	21
62	PAN electrospun nanofibers reinforced with Ag ₂ CO ₃ nanoparticles: Highly efficient visible light photocatalyst for photodegradation of organic contaminants in waste water. <i>Macromolecular Research</i> , 2015, 23, 149-155.	2.4	20
63	Li ion adsorption behaviors of Ni-loaded Li ⁺ Mn oxide composites. <i>RSC Advances</i> , 2014, 4, 21899.	3.6	18
64	Fabrication and characterization of flower-like BiOI/Pt heterostructure with enhanced photocatalytic activity under visible light irradiation. <i>Journal of Solid State Chemistry</i> , 2017, 253, 421-429.	2.9	17
65	A study of reduced graphene oxide/leaf-shaped TiO ₂ nanofibers for enhanced photocatalytic performance via electrospinning. <i>Journal of Solid State Chemistry</i> , 2018, 266, 196-204.	2.9	17
66	Advances in layered double hydroxide-based ternary nanocomposites for photocatalysis of contaminants in water. <i>Nanotechnology Reviews</i> , 2020, 9, 1381-1396.	5.8	16
67	The formation mechanism of Li ₄ Ti ₅ O ₁₂ solid solutions prepared by carbothermal reduction and the effect of Ti ³⁺ on electrochemical performance. <i>Scientific Reports</i> , 2019, 9, 4774.	3.3	15
68	Synthesis of polyethylenimine-impregnated titanate nanotubes for CO ₂ capture: Influence of porosity and nitrogen content on amine-modified adsorbents. <i>Journal of CO₂ Utilization</i> , 2019, 34, 472-478.	6.8	14
69	Ultralong and Millimeter-Thick Graphene Oxide Supercapacitors with High Volumetric Capacitance. <i>ACS Applied Energy Materials</i> , 2021, 4, 8059-8069.	5.1	13
70	Prospective Synthesis Approaches to Emerging Materials for Supercapacitor. , 2018, , 185-208.		8
71	Electrospun Ag-CoF doped PU nanofibers: Effective visible light catalyst for photodegradation of organic dyes. <i>Macromolecular Research</i> , 2014, 22, 895-900.	2.4	7
72	Potassium Oxalate as an Alternative Activating Reagent of Corn Starch-Derived Porous Carbons for Methane Storage. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 7124-7129.	0.9	7

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73	Effect of Atmospheric-Pressure Plasma Treatments on Fracture Toughness of Carbon Fibers-Reinforced Composites. <i>Molecules</i> , 2021, 26, 3698.	3.8	6
74	Effect of electroless nickel plating on electromagnetic interference shielding effectiveness of pitch-based carbon papers/epoxy composites. <i>Functional Composites and Structures</i> , 2019, 1, 035001.	3.4	4
75	A Study on Electron Acceptor of Carbonaceous Materials for Highly Efficient Hydrogen Uptakes. <i>Catalysts</i> , 2021, 11, 1524.	3.5	3