

Ki-Joon Jeon

List of Publications by Year in descending order

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97
papers

3,891
citations

159585

30
h-index

123424

61
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98
all docs

98
docs citations

98
times ranked

6607
citing authors

#	ARTICLE	IF	CITATIONS
1	Air-stable magnesium nanocomposites provide rapid and high-capacity hydrogen storage without using heavy-metal catalysts. <i>Nature Materials</i> , 2011, 10, 286-290.	27.5	600
2	Fluorographene: A Wide Bandgap Semiconductor with Ultraviolet Luminescence. <i>ACS Nano</i> , 2011, 5, 1042-1046.	14.6	394
3	The Interaction of Li ⁺ with Single-Layer and Few-Layer Graphene. <i>Nano Letters</i> , 2010, 10, 3386-3388.	9.1	332
4	Enhanced Nanoscale Friction on Fluorinated Graphene. <i>Nano Letters</i> , 2012, 12, 6043-6048.	9.1	262
5	Highly p-doped epitaxial graphene obtained by fluorine intercalation. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	141
6	Direct Imaging of Soft~Hard Interfaces Enabled by Graphene. <i>Nano Letters</i> , 2009, 9, 3365-3369.	9.1	127
7	Few-layer graphene under high pressure: Raman and X-ray diffraction studies. <i>Solid State Communications</i> , 2013, 154, 15-18.	1.9	109
8	Silicon Diphosphide: A Si-Based Three-Dimensional Crystalline Framework as a High-Performance Li-Ion Battery Anode. <i>ACS Nano</i> , 2016, 10, 5701-5709.	14.6	81
9	Mini review on H ₂ production from electrochemical water splitting according to special nanostructured morphology of electrocatalysts. <i>Fuel</i> , 2022, 308, 122048.	6.4	78
10	Two-dimensional SnS ₂ materials as high-performance NO ₂ sensors with fast response and high sensitivity. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 616-621.	7.8	76
11	Degussa P25 TiO ₂ modified with H ₂ O ₂ under microwave treatment to enhance photocatalytic properties. <i>Catalysis Today</i> , 2018, 303, 305-312.	4.4	74
12	Electrodeposition of flower-like nickel oxide on CVD-grown graphene to develop an electrochemical non-enzymatic biosensor. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6301-6309.	5.8	73
13	Layered germanium phosphide-based anodes for high-performance lithium- and sodium-ion batteries. <i>Energy Storage Materials</i> , 2019, 17, 78-87.	18.0	72
14	Electrochemical mechanism of Li insertion/extraction in ZnS and ZnS/C anodes for Li-ion batteries. <i>Electrochimica Acta</i> , 2018, 265, 107-114.	5.2	57
15	Size-dependent CO ₂ capture in chemically synthesized magnesium oxide nanocrystals. <i>Journal of Materials Chemistry</i> , 2011, 21, 11486.	6.7	56
16	A simulation study on the compression behavior of dust cakes. <i>Powder Technology</i> , 2004, 141, 1-11.	4.2	51
17	New high-energy-density GeTe-based anodes for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3278-3288.	10.3	50
18	A Simulation Study on the Collection of Submicron Particles in a Unipolar Charged Fiber. <i>Aerosol Science and Technology</i> , 2002, 36, 573-582.	3.1	47

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19	Enhancement of hydrogen sorption properties of MgH ₂ with a MgF ₂ catalyst. International Journal of Hydrogen Energy, 2017, 42, 20120-20124.	7.1	45
20	Detection of oxygen ion drift in Pt/Al ₂ O ₃ /TiO ₂ /Pt RRAM using interface-free single-layer graphene electrodes. Carbon, 2014, 75, 209-216.	10.3	42
21	Co _x P compounds: electrochemical conversion/partial recombination reaction and partially disproportionated nanocomposite for Li-ion battery anodes. RSC Advances, 2014, 4, 43227-43234.	3.6	42
22	Rapid photocatalytic degradation of nitrobenzene under the simultaneous illumination of UV and microwave radiation fields with a TiO ₂ ball catalyst. Catalysis Today, 2018, 307, 65-72.	4.4	42
23	Quantification of tire wear particles in road dust from industrial and residential areas in Seoul, Korea. Science of the Total Environment, 2021, 784, 147177.	8.0	42
24	Black P/graphene hybrid: A fast response humidity sensor with good reversibility and stability. Scientific Reports, 2017, 7, 10561.	3.3	40
25	Temporospatial Control of Graphene Wettability. Advanced Materials, 2016, 28, 661-667.	21.0	39
26	Characteristics of hydrogen production by photocatalytic water splitting using liquid phase plasma over Ag-doped TiO ₂ photocatalysts. Environmental Research, 2020, 188, 109630.	7.5	38
27	Multi-resistive Reduced Graphene Oxide Diode with Reversible Surface Electrochemical Reaction induced Carrier Control. Scientific Reports, 2014, 4, 5642.	3.3	37
28	Fast response of hydrogen sensor using palladium nanocube-TiO ₂ nanofiber composites. International Journal of Hydrogen Energy, 2017, 42, 18754-18761.	7.1	37
29	Highly Reversible and Superior Li-Storage Characteristics of Layered GeS ₂ and Its Amorphous Composites. ACS Applied Materials & Interfaces, 2016, 8, 29543-29550.	8.0	36
30	Self-Healing Graphene-Templated Platinum-Nickel Oxide Heterostructures for Overall Water Splitting. ACS Nano, 2022, 16, 930-938.	14.6	34
31	Enhancement of Hydrogen Evolution from Water Photocatalysis Using Liquid Phase Plasma on Metal Oxide-Loaded Photocatalysts. ACS Sustainable Chemistry and Engineering, 2017, 5, 3659-3666.	6.7	32
32	High-sensitivity and fast-response hydrogen sensor for safety application using Pt nanoparticle-decorated 3D graphene. Renewable Energy, 2019, 144, 167-171.	8.9	31
33	Characteristics of nanoparticle formation and hazardous air pollutants emitted by 3D printer operations: from emission to inhalation. RSC Advances, 2019, 9, 19606-19612.	3.6	30
34	Pd Nanocluster/Monolayer MoS ₂ Heterojunctions for Light-Induced Room-Temperature Hydrogen Sensing. ACS Applied Materials & Interfaces, 2021, 13, 14644-14652.	8.0	29
35	Luminescence, Patterned Metallic Regions, and Photon-Mediated Electronic Changes in Single-Sided Fluorinated Graphene Sheets. ACS Nano, 2014, 8, 7801-7808.	14.6	28
36	Laser-Induced Particle Adsorption on Atomically Thin MoS ₂ . ACS Applied Materials & Interfaces, 2016, 8, 2974-2984.	8.0	27

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37	Photochemical Hydrogen Doping Induced Embedded Two-Dimensional Metallic Channel Formation in InGaZnO at Room Temperature. <i>ACS Nano</i> , 2015, 9, 9964-9973.	14.6	26
38	Atomic interactions of two-dimensional PtS ₂ quantum dots/TiC heterostructures for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2021, 293, 120227.	20.2	21
39	Hydrogen absorption/desorption kinetics of magnesium nano-nickel composites synthesized by dry particle coating technique. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 1860-1868.	7.1	20
40	Irradiation of liquid phase plasma on photocatalytic decomposition of acetic acid-containing wastewater over metal oxide photocatalysts. <i>Catalysis Today</i> , 2018, 307, 131-139.	4.4	20
41	Controllable atomic-ratio of CVD-grown MoS ₂ -MoO ₂ hybrid catalyst by soft annealing for enhancing hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 1399-1408.	7.1	20
42	Reversible bistability of conductance on graphene/CuO _x /Cu nanojunction. <i>Applied Physics Letters</i> , 2012, 100, 123101.	3.3	19
43	Static and kinetic friction characteristics of nanowire on different substrates. <i>Applied Surface Science</i> , 2016, 379, 452-461.	6.1	18
44	Catalytic Properties of Microporous Zeolite Catalysts in Synthesis of Isosorbide from Sorbitol by Dehydration. <i>Catalysts</i> , 2020, 10, 148.	3.5	18
45	Recent advances in wide solar spectrum active W ₁₈ O ₄₉ -based photocatalysts for energy and environmental applications. <i>Catalysis Reviews - Science and Engineering</i> , 2023, 65, 1521-1566.	12.9	18
46	Study of stainless steel electrodes after electrochemical analysis in sea water condition. <i>Environmental Research</i> , 2019, 173, 549-555.	7.5	16
47	Low Frequency Ultrasonication of Degussa P25 TiO ₂ and Its Superior Photocatalytic Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 4399-4404.	0.9	14
48	Co-application of liquid phase plasma process for hydrogen production and degradation of acetaldehyde over Ni TiO ₂ supported on porous materials. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 24099-24107.	7.1	14
49	Study on the contribution ratios of particulate matter emissions in differential provinces concerning condensable particulate matter. <i>Energy and Environment</i> , 2019, 30, 1206-1218.	4.6	14
50	Exposure to Traffic-Related Particulate Matter 2.5 Triggers Th2-Dominant Ocular Immune Response in a Murine Model. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 2965.	2.6	14
51	Insight into mechanism of temperature-dependent limit of NO ₂ detection using monolayer MoS ₂ . <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129138.	7.8	14
52	Characterization on the Expanding Nature of Graphite in Microwave-Irradiated Exfoliation. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 4450-4455.	0.9	13
53	Alternative cost-effective electrodes for hydrogen production in saline water condition. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 5090-5098.	7.1	13
54	Characterization of Bimetallic Fe-Ru Oxide Nanoparticles Prepared by Liquid-Phase Plasma Method. <i>Nanoscale Research Letters</i> , 2016, 11, 344.	5.7	12

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55	Effect of liquid phase plasma on photocatalysis of water for hydrogen evolution. International Journal of Hydrogen Energy, 2017, 42, 17386-17393.	7.1	12
56	Acetaldehyde removal and increased H ₂ /CO gas yield from biomass gasification over metal-loaded Kraft lignin char catalyst. Journal of Environmental Management, 2019, 232, 330-335.	7.8	12
57	A new air-washing method to clean fabric filters clogged with submicron fume particles: A pilot-scale study. Journal of Hazardous Materials, 2020, 383, 121186.	12.4	12
58	Development of PM ₁₀ and PM _{2.5} cyclones for small sampling ports at stationary sources: Numerical and experimental study. Environmental Research, 2021, 193, 110507.	7.5	12
59	Enhanced hydrogen absorption kinetics for hydrogen storage using Mg flakes as compared to conventional spherical powders. Journal of Power Sources, 2008, 183, 693-700.	7.8	11
60	Optimization of Zn ₂ SnO ₄ thin film by post oxidation of thermally evaporated alternate Sn and Zn metallic multi-layers. Applied Surface Science, 2018, 449, 68-76.	6.1	11
61	Determination of the emission rate for ultrafine and accumulation mode particles as a function of time during the pan-frying of fish. Journal of Environmental Management, 2019, 236, 75-80.	7.8	11
62	Facile synthesis of core-shell-structured rutile TiO ₂ with enhanced photocatalytic properties. Catalysis Today, 2020, 347, 18-22.	4.4	11
63	Assembling a supercapacitor electrode with dual metal oxides and activated carbon using a liquid phase plasma. Journal of Environmental Management, 2017, 203, 880-887.	7.8	10
64	Controllable desulfurization in single layer MoS ₂ by cationic current treatment in hydrogen evolution reaction. Applied Surface Science, 2020, 507, 145181.	6.1	10
65	Enhanced Electrocatalytic Activity of Stainless Steel Substrate by Nickel Sulfides for Efficient Hydrogen Evolution. Catalysts, 2020, 10, 1274.	3.5	10
66	Prediction Model for Dry Eye Syndrome Incidence Rate Using Air Pollutants and Meteorological Factors in South Korea: Analysis of Sub-Region Deviations. International Journal of Environmental Research and Public Health, 2020, 17, 4969.	2.6	9
67	Enhanced stability and electrocatalytic activity of graphene on copper-nickel alloys for hydrogen production from wastewater. Carbon, 2020, 161, 665-673.	10.3	9
68	Heterostructure of 3D sea-grape-like MoS ₂ /graphene on carbon cloth for enhanced water splitting. Applied Surface Science, 2020, 529, 147089.	6.1	9
69	Relationship between Cytotoxicity and Surface Oxidation of Artificial Black Carbon. Nanomaterials, 2021, 11, 1455.	4.1	9
70	Reversible oxidation states of single layer graphene tuned by electrostatic potential. Surface Science, 2013, 612, 37-41.	1.9	8
71	Enhancement of photocatalytic disinfection of surface modified rutile TiO ₂ nanocatalyst. Korean Journal of Chemical Engineering, 2016, 33, 2392-2395.	2.7	7
72	Analysis of National PM _{2.5} (FPM and CPM) Emissions by Past, Current, and Future Energy Mix Scenarios in the Republic of Korea. Sustainability, 2019, 11, 4289.	3.2	7

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73	Considering Condensable Particulate Matter Emissions Improves the Accuracy of Air Quality Modeling for Environmental Impact Assessment. Sustainability, 2021, 13, 4470.	3.2	7
74	Microporous Zeolites as Catalysts for the Preparation of Decyl Glucoside from Glucose with 1-Decanol by Direct Glucosidation. Catalysts, 2016, 6, 216.	3.5	6
75	Application of Liquid Phase Plasma Irradiation for H ₂ Production of Methanol/Water over Ag-loaded TiO ₂ Photocatalyst. Energy Procedia, 2018, 144, 57-62.	1.8	6
76	Traffic-related particulate matter aggravates ocular allergic inflammation by mediating dendritic cell maturation. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2021, 84, 661-673.	2.3	6
77	Effect of carbon coating on Cu electrodes for hydrogen production by water splitting. International Journal of Hydrogen Energy, 2019, 44, 20641-20648.	7.1	5
78	Comparison of Measurement Methods and Size Fraction of Fine Particles (PM ₁₀ , PM _{2.5}) from Stationary Emission Source Using Korean Standard and ISO: Coal Power Plant and Refinery. Journal of Korean Society for Atmospheric Environment, 2017, 33, 342-350.	1.1	5
79	Structural transformations of Hydrogen- and Sulfur-annealed Pt-based chalcogenides electrocatalysis. Applied Surface Science, 2022, 589, 153003.	6.1	5
80	Effective Removal of Heavy Metals from Wastewater Using Modified Clay. Journal of Nanoscience and Nanotechnology, 2016, 16, 4469-4473.	0.9	4
81	Production of H ₂ and CO from Refuse Derived Fuels Over Ni-Doped CeO ₂ -ZrO ₂ Catalyst. Science of Advanced Materials, 2018, 10, 1367-1371.	0.7	4
82	Flake Particle Synthesis from Ductile Metal Particles Using a Novel High-speed Vibratory Mill. KONA Powder and Particle Journal, 2006, 24, 83-92.	1.7	4
83	Evidence of haze-driven secondary production of supermicrometer aerosol nitrate and sulfate in size distribution data in South Korea. Atmospheric Chemistry and Physics, 2022, 22, 7505-7522.	4.9	4
84	Nanomaterials for Green Science and Environmental Applications. Journal of Nanomaterials, 2015, 2015, 1-1.	2.7	3
85	Agglomeration characteristics of nano-size TiO ₂ particles using analytical solution. Korean Journal of Chemical Engineering, 2018, 35, 1948-1953.	2.7	3
86	Complementary Schottky diode formation with carbon buffer and p-doped single layer graphene on intrinsic SiC via fluorine intercalation. Carbon, 2019, 142, 254-260.	10.3	3
87	Titanium dioxide-coated copper electrodes for hydrogen production by water splitting. International Journal of Hydrogen Energy, 2020, 45, 24037-24044.	7.1	3
88	Graphene: Temporospatial Control of Graphene Wettability (Adv. Mater. 4/2016). Advanced Materials, 2016, 28, 594-594.	21.0	1
89	Morphology Control of Zinc Oxide Nanostructure on Single Layer Graphene. Journal of Nanoscience and Nanotechnology, 2016, 16, 4417-4421.	0.9	1
90	COLLECTION OF SUBMICRON PARTICLES ON A BIPOLAR CHARGED FIBER. Journal of Aerosol Science, 2001, 32, 719-720.	3.8	1

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91	Catalytic Upgrading of Geodae-Uksae 1 over Mesoporous MCM-48 Catalysts. Bulletin of the Korean Chemical Society, 2014, 35, 1951-1955.	1.9	1
92	<l>A Special Section on</l> The Role of Nanotechnology for Sustainable Energy and Environment. Journal of Nanoscience and Nanotechnology, 2016, 16, 4253-4255.	0.9	0
93	UV assisted on titanium doped electrode for hydrogen evolution from artificial wastewater. Energy Procedia, 2018, 144, 82-87.	1.8	0
94	H2 Production from Yellow Poplar Gasification Over Ni/Spent FCC. Journal of Nanoscience and Nanotechnology, 2019, 19, 1133-1136.	0.9	0
95	Development of a Nose-only Inhalation Toxicity Test Chamber That Provides Four Exposure Concentrations of Nano-sized Particles. Journal of Visualized Experiments, 2019, , .	0.3	0
96	Conversion of Cellulose over Ni Loaded Mesoporous MSU-F Catalysts via Air Gasification. Bulletin of the Korean Chemical Society, 2014, 35, 3205-3208.	1.9	0
97	Emission Characteristics and Hazard Assessment of Polycyclic Aromatic Hydrocarbon (PAHs) from Solid Fuel Facilities. Journal of Korean Society for Atmospheric Environment, 2017, 33, 333-341.	1.1	0