

Ki-Joon Jeon

List of Publications by Year in descending order

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97
papers

3,891
citations

159585

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6607
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Self-Healing Graphene-Templated Platinum-Nickel Oxide Heterostructures for Overall Water Splitting. <i>ACS Nano</i> , 2022, 16, 930-938.	14.6	34
4	Structural transformations of Hydrogen- and Sulfur-annealed Pt-based chalcogenides electrocatalysis. <i>Applied Surface Science</i> , 2022, 589, 153003.	6.1	5
5	Evidence of haze-driven secondary production of supermicrometer aerosol nitrate and sulfate in size distribution data in South Korea. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 7505-7522.	4.9	4
6	Development of PM ₁₀ and PM _{2.5} cyclones for small sampling ports at stationary sources: Numerical and experimental study. <i>Environmental Research</i> , 2021, 193, 110507.	7.5	12
7	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
8	Pd Nanocluster/Monolayer MoS ₂ Heterojunctions for Light-Induced Room-Temperature Hydrogen Sensing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14644-14652.	8.0	29
9	Considering Condensable Particulate Matter Emissions Improves the Accuracy of Air Quality Modeling for Environmental Impact Assessment. <i>Sustainability</i> , 2021, 13, 4470.	3.2	7
10	Relationship between Cytotoxicity and Surface Oxidation of Artificial Black Carbon. <i>Nanomaterials</i> , 2021, 11, 1455.	4.1	9
11	Traffic-related particulate matter aggravates ocular allergic inflammation by mediating dendritic cell maturation. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2021, 84, 661-673.	2.3	6
12	Quantification of tire wear particles in road dust from industrial and residential areas in Seoul, Korea. <i>Science of the Total Environment</i> , 2021, 784, 147177.	8.0	42
13	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
14	Facile synthesis of core-shell-structured rutile TiO ₂ with enhanced photocatalytic properties. <i>Catalysis Today</i> , 2020, 347, 18-22.	4.4	11
15	A new air-washing method to clean fabric filters clogged with submicron fume particles: A pilot-scale study. <i>Journal of Hazardous Materials</i> , 2020, 383, 121186.	12.4	12
16	Titanium dioxide-coated copper electrodes for hydrogen production by water splitting. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 24037-24044.	7.1	3
17	Controllable desulfurization in single layer MoS ₂ by cationic current treatment in hydrogen evolution reaction. <i>Applied Surface Science</i> , 2020, 507, 145181.	6.1	10
18	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

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19	Prediction Model for Dry Eye Syndrome Incidence Rate Using Air Pollutants and Meteorological Factors in South Korea: Analysis of Sub-Region Deviations. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 4969.	2.6	9
20	Enhanced stability and electrocatalytic activity of graphene on copper-nickel alloys for hydrogen production from wastewater. <i>Carbon</i> , 2020, 161, 665-673.	10.3	9
21	Enhanced Electrocatalytic Activity of Stainless Steel Substrate by Nickel Sulfides for Efficient Hydrogen Evolution. <i>Catalysts</i> , 2020, 10, 1274.	3.5	10
22	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
23	Heterostructure of 3D sea-grape-like MoS ₂ /graphene on carbon cloth for enhanced water splitting. <i>Applied Surface Science</i> , 2020, 529, 147089.	6.1	9
24	Catalytic Properties of Microporous Zeolite Catalysts in Synthesis of Isosorbide from Sorbitol by Dehydration. <i>Catalysts</i> , 2020, 10, 148.	3.5	18
25	Characteristics of hydrogen production by photocatalytic water splitting using liquid phase plasma over Ag-doped TiO ₂ photocatalysts. <i>Environmental Research</i> , 2020, 188, 109630.	7.5	38
26	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
27	High-sensitivity and fast-response hydrogen sensor for safety application using Pt nanoparticle-decorated 3D graphene. <i>Renewable Energy</i> , 2019, 144, 167-171.	8.9	31
28	Analysis of National PM _{2.5} (FPM and CPM) Emissions by Past, Current, and Future Energy Mix Scenarios in the Republic of Korea. <i>Sustainability</i> , 2019, 11, 4289.	3.2	7
29	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
30	Characteristics of nanoparticle formation and hazardous air pollutants emitted by 3D printer operations: from emission to inhalation. <i>RSC Advances</i> , 2019, 9, 19606-19612.	3.6	30
31	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
32	H ₂ Production from Yellow Poplar Gasification Over Ni/Spent FCC. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 1133-1136.	0.9	0
33	Study of stainless steel electrodes after electrochemical analysis in sea water condition. <i>Environmental Research</i> , 2019, 173, 549-555.	7.5	16
34	Development of a Nose-only Inhalation Toxicity Test Chamber That Provides Four Exposure Concentrations of Nano-sized Particles. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	0
35	Determination of the emission rate for ultrafine and accumulation mode particles as a function of time during the pan-frying of fish. <i>Journal of Environmental Management</i> , 2019, 236, 75-80.	7.8	11
36	Effect of carbon coating on Cu electrodes for hydrogen production by water splitting. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 20641-20648.	7.1	5

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37	Alternative cost-effective electrodes for hydrogen production in saline water condition. International Journal of Hydrogen Energy, 2019, 44, 5090-5098.	7.1	13
38	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
39	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
40	Electrochemical mechanism of Li insertion/extraction in ZnS and ZnS/C anodes for Li-ion batteries. Electrochimica Acta, 2018, 265, 107-114.	5.2	57
41	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
42	Irradiation of liquid phase plasma on photocatalytic decomposition of acetic acid-containing wastewater over metal oxide photocatalysts. Catalysis Today, 2018, 307, 131-139.	4.4	20
43	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
44	Degussa P25 TiO ₂ modified with H ₂ O ₂ under microwave treatment to enhance photocatalytic properties. Catalysis Today, 2018, 303, 305-312.	4.4	74
45	Two-dimensional SnS ₂ materials as high-performance NO ₂ sensors with fast response and high sensitivity. Sensors and Actuators B: Chemical, 2018, 255, 616-621.	7.8	76
46	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
47	UV assisted on titanium doped electrode for hydrogen evolution from artificial wastewater. Energy Procedia, 2018, 144, 82-87.	1.8	0
48	Agglomeration characteristics of nano-size TiO ₂ particles using analytical solution. Korean Journal of Chemical Engineering, 2018, 35, 1948-1953.	2.7	3
49	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
50	Effect of liquid phase plasma on photocatalysis of water for hydrogen evolution. International Journal of Hydrogen Energy, 2017, 42, 17386-17393.	7.1	12
51	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
52	Fast response of hydrogen sensor using palladium nanocube-TiO ₂ nanofiber composites. International Journal of Hydrogen Energy, 2017, 42, 18754-18761.	7.1	37
53	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
54	Co-application of liquid phase plasma process for hydrogen production and degradation of acetaldehyde over Ni TiO ₂ supported on porous materials. International Journal of Hydrogen Energy, 2017, 42, 24099-24107.	7.1	14

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55	Black P/graphene hybrid: A fast response humidity sensor with good reversibility and stability. <i>Scientific Reports</i> , 2017, 7, 10561.	3.3	40
56	Enhancement of hydrogen sorption properties of MgH ₂ with a MgF ₂ catalyst. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 20120-20124.	7.1	45
57	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. <i>Journal of Korean Society for Atmospheric Environment</i> , 2017, 33, 342-350.	1.1	5
58	Emission Characteristics and Hazard Assessment of Polycyclic Aromatic Hydrocarbon (PAHs) from Solid Fuel Facilities. <i>Journal of Korean Society for Atmospheric Environment</i> , 2017, 33, 333-341.	1.1	0
59	Microporous Zeolites as Catalysts for the Preparation of Decyl Glucoside from Glucose with 1-Decanol by Direct Glucosidation. <i>Catalysts</i> , 2016, 6, 216.	3.5	6
60	Effective Removal of Heavy Metals from Wastewater Using Modified Clay. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 4469-4473.	0.9	4
61	Graphene: Temporospacial Control of Graphene Wettability (<i>Adv. Mater.</i> 4/2016). <i>Advanced Materials</i> , 2016, 28, 594-594.	21.0	1
62	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
63	Characterization of Bimetallic Fe-Ru Oxide Nanoparticles Prepared by Liquid-Phase Plasma Method. <i>Nanoscale Research Letters</i> , 2016, 11, 344.	5.7	12
64	Static and kinetic friction characteristics of nanowire on different substrates. <i>Applied Surface Science</i> , 2016, 379, 452-461.	6.1	18
65	Enhancement of photocatalytic disinfection of surface modified rutile TiO ₂ nanocatalyst. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 2392-2395.	2.7	7
66	Highly Reversible and Superior Li-Storage Characteristics of Layered GeS ₂ and Its Amorphous Composites. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29543-29550.	8.0	36
67	Temporospacial Control of Graphene Wettability. <i>Advanced Materials</i> , 2016, 28, 661-667.	21.0	39
68	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
69	<l>A Special Section on</l> The Role of Nanotechnology for Sustainable Energy and Environment. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 4253-4255.	0.9	0
70	Morphology Control of Zinc Oxide Nanostructure on Single Layer Graphene. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 4417-4421.	0.9	1
71	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
72	Laser-Induced Particle Adsorption on Atomically Thin MoS ₂ . <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2974-2984.	8.0	27

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73	Nanomaterials for Green Science and Environmental Applications. Journal of Nanomaterials, 2015, 1-1.	2.7	3
74	Electrodeposition of flower-like nickel oxide on CVD-grown graphene to develop an electrochemical non-enzymatic biosensor. Journal of Materials Chemistry B, 2015, 3, 6301-6309.	5.8	73
75	Photochemical Hydrogen Doping Induced Embedded Two-Dimensional Metallic Channel Formation in InGaZnO at Room Temperature. ACS Nano, 2015, 9, 9964-9973.	14.6	26
76	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
77	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
78	Luminescence, Patterned Metallic Regions, and Photon-Mediated Electronic Changes in Single-Sided Fluorinated Graphene Sheets. ACS Nano, 2014, 8, 7801-7808.	14.6	28
79	Multi-resistive Reduced Graphene Oxide Diode with Reversible Surface Electrochemical Reaction induced Carrier Control. Scientific Reports, 2014, 4, 5642.	3.3	37
80	Catalytic Upgrading of Geodae-Uksae 1 over Mesoporous MCM-48 Catalysts. Bulletin of the Korean Chemical Society, 2014, 35, 1951-1955.	1.9	1
81	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
82	Reversible oxidation states of single layer graphene tuned by electrostatic potential. Surface Science, 2013, 612, 37-41.	1.9	8
83	Few-layer graphene under high pressure: Raman and X-ray diffraction studies. Solid State Communications, 2013, 154, 15-18.	1.9	109
84	Reversible bistability of conductance on graphene/CuOx/Cu nanojunction. Applied Physics Letters, 2012, 100, 123101.	3.3	19
85	Enhanced Nanoscale Friction on Fluorinated Graphene. Nano Letters, 2012, 12, 6043-6048.	9.1	262
86	Size-dependent CO ₂ capture in chemically synthesized magnesium oxide nanocrystals. Journal of Materials Chemistry, 2011, 21, 11486.	6.7	56
87	Highly p-doped epitaxial graphene obtained by fluorine intercalation. Applied Physics Letters, 2011, 98, .	3.3	141
88	Fluorographene: A Wide Bandgap Semiconductor with Ultraviolet Luminescence. ACS Nano, 2011, 5, 1042-1046.	14.6	394
89	Air-stable magnesium nanocomposites provide rapid and high-capacity hydrogen storage without using heavy-metal catalysts. Nature Materials, 2011, 10, 286-290.	27.5	600
90	The Interaction of Li ⁺ with Single-Layer and Few-Layer Graphene. Nano Letters, 2010, 10, 3386-3388.	9.1	332

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91	Direct Imaging of Soft~Hard Interfaces Enabled by Graphene. Nano Letters, 2009, 9, 3365-3369.	9.1	127
92	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
93	Hydrogen absorption/desorption kinetics of magnesium nano-nickel composites synthesized by dry particle coating technique. International Journal of Hydrogen Energy, 2007, 32, 1860-1868.	7.1	20
94	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
95	A simulation study on the compression behavior of dust cakes. Powder Technology, 2004, 141, 1-11.	4.2	51
96	A Simulation Study on the Collection of Submicron Particles in a Unipolar Charged Fiber. Aerosol Science and Technology, 2002, 36, 573-582.	3.1	47
97	COLLECTION OF SUBMICRON PARTICLES ON A BIPOLAR CHARGED FIBER. Journal of Aerosol Science, 2001, 32, 719-720.	3.8	1