

Ki Chang Kwon

List of Publications by Year in Descending Order

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Version: 2024-04-24

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61
papers

2,257
citations

27
h-index

46
g-index

67
ext. papers

2,734
ext. citations

10.7
avg, IF

5.04
L-index

#	Paper	IF	Citations
61	Memristive Devices Based on Two-Dimensional Transition Metal Chalcogenides for Neuromorphic Computing.. <i>Nano-Micro Letters</i> , 2022 , 14, 58	19.5	8
60	Tailoring the coercive field in ferroelectric metal-free perovskites by hydrogen bonding.. <i>Nature Communications</i> , 2022 , 13, 794	17.4	3
59	Data-driven discovery of high performance layered van der Waals piezoelectric NbOI.. <i>Nature Communications</i> , 2022 , 13, 1884	17.4	2
58	Strong Fermi-level pinning at metal contacts to halide perovskites. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 15212-15220	7.1	3
57	Edge-exposed WS ₂ on 1D nanostructures for highly selective NO ₂ sensor at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2021 , 333, 129566	8.5	8
56	Microscopic evidence of strong interactions between chemical vapor deposited 2D MoS film and SiO growth template. <i>Nano Convergence</i> , 2021 , 8, 11	9.2	8
55	Multifunctional Properties of a Zn(II) Coordination Complex. <i>Crystal Growth and Design</i> , 2021 , 21, 3401-3498	3.98	4
54	Synthesis of atomically thin alloyed molybdenum-tungsten disulfides thin films as hole transport layers in organic light-emitting diodes. <i>Applied Surface Science</i> , 2021 , 541, 148529	6.7	2
53	Vertically aligned MoS ₂ thin film catalysts with Fe-Ni sulfide nanoparticles by one-step sulfurization for efficient solar water reduction. <i>Chemical Engineering Journal</i> , 2021 , 418, 129369	14.7	8
52	In-Plane Ferroelectric Tin Monosulfide and Its Application in a Ferroelectric Analog Synaptic Device. <i>ACS Nano</i> , 2020 , 14, 7628-7638	16.7	50
51	Energy Harvesting from Atmospheric Humidity by a Hydrogel-Integrated Ferroelectric-Semiconductor System. <i>Joule</i> , 2020 , 4, 176-188	27.8	52
50	Self-Powered Photodetector Using Two-Dimensional Ferroelectric Dion-Jacobson Hybrid Perovskites. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18592-18598	16.4	35
49	Ferroelectricity and Rashba Effect in a Two-Dimensional Dion-Jacobson Hybrid Organic-Inorganic Perovskite. <i>Journal of the American Chemical Society</i> , 2019 , 141, 15972-15976	16.4	65
48	Boosting the photocatalytic hydrogen evolution performance via an atomically thin 2D heterojunction visualized by scanning photoelectrochemical microscopy. <i>Nano Energy</i> , 2019 , 65, 104053	17.1	11
47	Pd- and Au-Decorated MoS ₂ Gas Sensors for Enhanced Selectivity. <i>Electronic Materials Letters</i> , 2019 , 15, 368-376	2.9	22
46	Electrocatalytic Water Splitting and CO ₂ Reduction: Sustainable Solutions via Single-Atom Catalysts Supported on 2D Materials. <i>Small Methods</i> , 2019 , 3, 1800492	12.8	41
45	SnS Nanograins on Porous SiO Nanorods Template for Highly Sensitive NO Sensor at Room Temperature with Excellent Recovery. <i>ACS Sensors</i> , 2019 , 4, 678-686	9.2	47

44	Water Splitting Exceeding 17% Solar-to-Hydrogen Conversion Efficiency Using Solution-Processed Ni-Based Electrocatalysts and Perovskite/Si Tandem Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33835-33843	9.5	39
43	Two-Dimensional NbS Gas Sensors for Selective and Reversible NO Detection at Room Temperature. <i>ACS Sensors</i> , 2019 , 4, 2395-2402	9.2	57
42	2-Dimensional Materials: Electrocatalytic Water Splitting and CO2 Reduction: Sustainable Solutions via Single-Atom Catalysts Supported on 2D Materials (Small Methods 9/2019). <i>Small Methods</i> , 2019 , 3, 1970028	12.8	2
41	Gas sensing characteristics of the FET-type gas sensor having inkjet-printed WS2 sensing layer. <i>Solid-State Electronics</i> , 2019 , 153, 27-32	1.7	22
40	Highly selective and sensitive chemoresistive humidity sensors based on rGO/MoS2 van der Waals composites. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5016-5024	13	84
39	One-pot synthesis of sulfur and nitrogen codoped titanium dioxide nanorod arrays for superior photoelectrochemical water oxidation. <i>Applied Catalysis B: Environmental</i> , 2018 , 234, 213-222	21.8	24
38	Enhanced nucleation of germanium on graphene via dipole engineering. <i>Nanoscale</i> , 2018 , 10, 5689-5694	7.7	9
37	Directly Assembled 3D Molybdenum Disulfide on Silicon Wafer for Efficient Photoelectrochemical Water Reduction. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1700142	5.9	30
36	Au decoration of vertical hematite nanotube arrays for further selective detection of acetone in exhaled breath. <i>Sensors and Actuators B: Chemical</i> , 2018 , 274, 587-594	8.5	21
35	Synthesis of Numerous Edge Sites in MoS via SiO Nanorods Platform for Highly Sensitive Gas Sensor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31594-31602	9.5	58
34	Efficient Water Splitting Cascade Photoanodes with Ligand-Engineered MnO Cocatalysts. <i>Advanced Science</i> , 2018 , 5, 1800727	13.6	20
33	Transfer of ultrathin molybdenum disulfide and transparent nanomesh electrode onto silicon for efficient heterojunction solar cells. <i>Nano Energy</i> , 2018 , 50, 649-658	17.1	22
32	p-p Heterojunction of Nickel Oxide-Decorated Cobalt Oxide Nanorods for Enhanced Sensitivity and Selectivity toward Volatile Organic Compounds. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1050-1058	8.5	63
31	Solar Water Splitting: Efficient Water Splitting Cascade Photoanodes with Ligand-Engineered MnO Cocatalysts (Adv. Sci. 10/2018). <i>Advanced Science</i> , 2018 , 5, 1870061	13.6	78
30	Microscopic Evidence for Strong Interaction between Pd and Graphene Oxide that Results in Metal-Decoration-Induced Reduction of Graphene Oxide. <i>Advanced Materials</i> , 2017 , 29, 1605929	24	23
29	Synergetically Selective Toluene Sensing in Hematite-Decorated Nickel Oxide Nanocorals. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600259	6.8	32
28	Graphene Oxide: Microscopic Evidence for Strong Interaction between Pd and Graphene Oxide that Results in Metal-Decoration-Induced Reduction of Graphene Oxide (Adv. Mater. 15/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1
27	Drastically enhanced hydrogen evolution activity by 2D to 3D structural transition in anion-engineered molybdenum disulfide thin films for efficient Si-based water splitting photocathodes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15534-15542	13	57

26	Tungsten disulfide thin film/p-type Si heterojunction photocathode for efficient photochemical hydrogen production. <i>MRS Communications</i> , 2017 , 7, 272-279	2.7	22
25	Enhanced Endurance Organolead Halide Perovskite Resistive Switching Memories Operable under an Extremely Low Bending Radius. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30764-30771	9.5	109
24	Polarized Light-Emitting Diodes Based on Patterned MoS Nanosheet Hole Transport Layer. <i>Advanced Materials</i> , 2017 , 29, 1702598	24	52
23	Tailoring catalytic activities of transition metal disulfides for water splitting. <i>FlatChem</i> , 2017 , 4, 68-80	5.1	19
22	Ion-beam-irradiated CYTOP-transferred graphene for liquid crystal cells. <i>Electronic Materials Letters</i> , 2017 , 13, 277-285	2.9	1
21	Toward High-Performance Hematite Nanotube Photoanodes: Charge-Transfer Engineering at Heterointerfaces. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23793-800	9.5	21
20	Inhibition of Ion Migration for Reliable Operation of Organolead Halide Perovskite-Based Metal/Semiconductor/Metal Broadband Photodetectors. <i>Advanced Functional Materials</i> , 2016 , 26, 4213-4222	15.6	97
19	Wafer-scale transferable molybdenum disulfide thin-film catalysts for photoelectrochemical hydrogen production. <i>Energy and Environmental Science</i> , 2016 , 9, 2240-2248	35.4	150
18	Transition Metal Disulfide Nanosheets Synthesized by Facile Sonication Method for the Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3929-3935	3.8	76
17	Effect of Amine-Based Organic Compounds on the Work-Function Decrease of Graphene. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 1309-1316	3.8	7
16	Highly photoresponsive and wavelength-selective circularly-polarized-light detector based on metal-oxides hetero-chiral thin film. <i>Scientific Reports</i> , 2016 , 6, 19580	4.9	17
15	Atomically thin two-dimensional materials as hole extraction layers in organolead halide perovskite photovoltaic cells. <i>Journal of Power Sources</i> , 2016 , 319, 1-8	8.9	78
14	Challenge beyond Graphene: Metal Oxide/Graphene/Metal Oxide Electrodes for Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 12932-9	9.5	15
13	Synthesis of atomically thin transition metal disulfides for charge transport layers in optoelectronic devices. <i>ACS Nano</i> , 2015 , 9, 4146-55	16.7	76
12	Eco-friendly graphene synthesis on Cu foil electroplated by reusing Cu etchants. <i>Scientific Reports</i> , 2014 , 4, 4830	4.9	12
11	Extended thermal stability in metal-chloride doped graphene using graphene overlayers. <i>Chemical Engineering Journal</i> , 2014 , 244, 355-363	14.7	9
10	Comparison of metal chloride-doped graphene electrode fabrication processes for GaN-based light emitting diodes. <i>RSC Advances</i> , 2014 , 4, 51215-51219	3.7	3
9	Role of Metal Cations in Alkali Metal Chloride Doped Graphene. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 8187-8193	3.8	27

8	Fluoropolymer-assisted graphene electrode for organic light-emitting diodes. <i>Organic Electronics</i> , 2014 , 15, 3154-3161	3.5	19
7	Effect of transition-metal chlorides on graphene properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1794-1800	1.6	17
6	Ion beam irradiation of few-layer graphene and its application to liquid crystal cells. <i>Carbon</i> , 2014 , 67, 352-359	10.4	17
5	Extension of stability in organic photovoltaic cells using UV/ozone-treated graphene sheets. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 109, 148-154	6.4	37
4	Role of ionic chlorine in the thermal degradation of metal chloride-doped graphene sheets. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 253-259	7.1	22
3	Effect of anions in Au complexes on doping and degradation of graphene. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2463	7.1	48
2	Work-Function Decrease of Graphene Sheet Using Alkali Metal Carbonates. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26586-26591	3.8	80
1	Increased Work Function in Few-Layer Graphene Sheets via Metal Chloride Doping. <i>Advanced Functional Materials</i> , 2012 , 22, 4724-4731	15.6	212