Dohyung Kim

List of Publications by Year
in descending order

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38 papers	7,536 citations	331642 21 h-index	315719 38 g-index
40 all docs	40 docs citations	40 times ranked	11559 citing authors

#	Article	IF	Citations
1	Covalent organic frameworks comprising cobalt porphyrins for catalytic CO ₂ reduction in water. Science, 2015, 349, 1208-1213.	12.6	2,046
2	Synergistic geometric and electronic effects for electrochemical reduction of carbon dioxide using goldâ€“copper bimetallic nanoparticles. Nature Communications, 2014, 5, 4948.	12.8	1,062
3	Designing materials for electrochemical carbon dioxide recycling. Nature Catalysis, 2019, 2, 648-658.	34.4	838
4	Artificial Photosynthesis for Sustainable Fuel and Chemical Production. Angewandte Chemie - International Edition, 2015, 54, 3259-3266.	13.8	550
5	Electrochemical Activation of CO₂ through Atomic Ordering Transformations of AuCu Nanoparticles. Journal of the American Chemical Society, 2017, 139, 8329-8336.	13.7	529
6	Copper nanoparticle ensembles for selective electroreduction of CO ₂ to C ₂ â€“C ₃ products. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10560-10565.	7.1	479
7	Humidityâ€Induced Degradation via Grain Boundaries of HC(NH₂)₂PbI₃ Planar Perovskite Solar Cells. Advanced Functional Materials, 2018, 28, 1705363.	14.9	260
8	High-Efficiency Rubidium-Incorporated Perovskite Solar Cells by Gas Quenching. ACS Energy Letters, 2017, 2, 438-444.	17.4	247
9	Anisotropic phase segregation and migration of Pt in nanocrystals en route to nanoframe catalysts. Nature Materials, 2016, 15, 1188-1194.	27.5	244
10	Room temperature in-plane ferroelectricity in van der Waals In ₂ Se ₃. Science Advances, 2018, 4, eaar7720.	10.3	224
11	Control of Architecture in Rhombic Dodecahedral Ptâ€“Ni Nanoframe Electrocatalysts. Journal of the American Chemical Society, 2017, 139, 11678-11681.	13.7	166
12	Directed Assembly of Nanoparticle Catalysts on Nanowire Photoelectrodes for Photoelectrochemical CO₂ Reduction. Nano Letters, 2016, 16, 5675-5680.	9.1	125
13	Ultrathin Epitaxial Cu@Au Coreâ€“Shell Nanowires for Stable Transparent Conductors. Journal of the American Chemical Society, 2017, 139, 7348-7354.	13.7	125
14	Selective CO2 electrocatalysis at the pseudocapacitive nanoparticle/ordered-ligand interlayer. Nature Energy, 2020, 5, 1032-1042.	39.5	99
15	Light- and bias-induced structural variations in metal halide perovskites. Nature Communications, 2019, 10, 444.	12.8	81
16	Probing Facet-Dependent Surface Defects in MAPbI₃ Perovskite Single Crystals. Journal of Physical Chemistry C, 2019, 123, 14144-14151.	3.1	70
17	Device design rules and operation principles of high-power perovskite solar cells for indoor applications. Nano Energy, 2020, 68, 104321.	16.0	70
18	The deep-DRT: A deep neural network approach to deconvolve the distribution of relaxation times from multidimensional electrochemical impedance spectroscopy data. Electrochimica Acta, 2021, 392, 139010.	5.2	43

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19	Nanoparticle Assembly Induced Ligand Interactions for Enhanced Electrocatalytic CO₂ Conversion. Journal of the American Chemical Society, 2021, 143, 19919-19927.	13.7	32
20	Spatially Resolved Carrier Dynamics at MAPbBr₃ Single Crystalâ€“Electrode Interface. ACS Applied Materials & Interfaces, 2019, 11, 41551-41560.	8.0	23
21	Ferroic Halide Perovskite Optoelectronics. Advanced Functional Materials, 2021, 31, 2102793.	14.9	23
22	Exploring Transport Behavior in Hybrid Perovskites Solar Cells via Machine Learning Analysis of Environmentalâ€Dependent Impedance Spectroscopy. Advanced Science, 2021, 8, e2002510.	11.2	23
23	Imaging mechanism for hyperspectral scanning probe microscopy via Gaussian process modelling. Npj Computational Materials, 2020, 6, .	8.7	19
24	Navigating grain boundaries in perovskite solar cells. Matter, 2021, 4, 1442-1445.	10.0	12
25	Elucidating the Spatial Dynamics of Charge Carriers in Quasi-Two-Dimensional Perovskites. ACS Applied Materials & Interfaces, 2021, 13, 35133-35141.	8.0	12
26	Unraveling the hysteretic behavior at double cations-double halides perovskite - electrode interfaces. Nano Energy, 2021, 89, 106428.	16.0	11
27	Magnetic and Magnetodielectric Properties of Epitaxial Iron Vanadate Thin Films. Advanced Electronic Materials, 2017, 3, 1600295.	5.1	10
28	Ferroelectric and Charge Transport Properties in Strain-Engineered Two-Dimensional Lead Iodide Perovskites. Chemistry of Materials, 2021, 33, 4077-4088.	6.7	10
29	Selfâ€Assembled Perovskite Nanoislands on CH₃NH₃PbI₃ Cuboid Single Crystals by Energetic Surface Engineering. Advanced Functional Materials, 2021, 31, 2105542.	14.9	9
30	Microstructural Evaluation of Phase Instability in Large Bandgap Metal Halide Perovskites. ACS Nano, 2021, 15, 20391-20402.	14.6	8
31	Super-resolution and signal separation in contact Kelvin probe force microscopy of electrochemically active ferroelectric materials. Journal of Applied Physics, 2020, 128, 055101.	2.5	6
32	Temperature-Dependent Magnetic Domain Evolution in Noncollinear Ferrimagnetic FeV₂O₄ Thin Films. ACS Applied Electronic Materials, 2019, 1, 817-822.	4.3	4
33	Exploring Responses of Contact Kelvin Probe Force Microscopy in Triple-Cation Double-Halide Perovskites. Journal of Physical Chemistry C, 2021, 125, 12355-12365.	3.1	3
34	Fluorine-mediated porosity and crystal-phase tailoring of meso-macroporous F TiO2 nanofibers and their enhanced photocatalytic performance. Thin Solid Films, 2019, 689, 137523.	1.8	1
35	Estimating Preisach Density via Subset Selection. IEEE Access, 2020, 8, 61767-61774.	4.2	1
36	Ferroic Halide Perovskite Optoelectronics (Adv. Funct. Mater. 36/2021). Advanced Functional Materials, 2021, 31, 2170263.	14.9	1

#	Article	IF	Citations
37	Selfâ€Assembled Perovskite Nanoislands on CH₃NH₃PbI₃ Cuboid Single Crystals by Energetic Surface Engineering (Adv. Funct. Mater. 50/2021). Advanced Functional Materials, 2021, 31, .	14.9	1
38	Lightâ€“ferroelectric interaction in two-dimensional lead iodide perovskites. Journal of Materials Chemistry A, 0, , .	10.3	1