Dohyung Kim

List of Publications by Year in Descending Order

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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.

37 papers	5,344 citations	18 h-index	40 g-index
40 ext. papers	6,474 ext. citations	14.5 avg, IF	5.87 L-index

#	Paper	IF	Citations
37	Nanoparticle Assembly Induced Ligand Interactions for Enhanced Electrocatalytic CO Conversion. *Journal of the American Chemical Society*, **2021**, 143, 19919-19927	16.4	5
36	Ferroelectric and Charge Transport Properties in Strain-Engineered Two-Dimensional Lead Iodide Perovskites. *Chemistry of Materials*, **2021**, 33, 4077-4088	9.6	2
35	Navigating grain boundaries in perovskite solar cells. *Matter*, **2021**, 4, 1442-1445	12.7	2
34	Exploring Responses of Contact Kelvin Probe Force Microscopy in Triple-Cation Double-Halide Perovskites. *Journal of Physical Chemistry C*, **2021**, 125, 12355-12365	3.8	0
33	Ferroic Halide Perovskite Optoelectronics. *Advanced Functional Materials*, **2021**, 31, 2102793	15.6	6
32	Exploring Transport Behavior in Hybrid Perovskites Solar Cells via Machine Learning Analysis of Environmental-Dependent Impedance Spectroscopy. *Advanced Science*, **2021**, 8, e2002510	13.6	7
31	Elucidating the Spatial Dynamics of Charge Carriers in Quasi-Two-Dimensional Perovskites. *ACS Applied Materials & Interfaces*, **2021**, 13, 35133-35141	9.5	3
30	Ferroic Halide Perovskite Optoelectronics (Adv. Funct. Mater. 36/2021). *Advanced Functional Materials*, **2021**, 31, 2170263	15.6	0
29	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	6.7	7
28	Unraveling the hysteretic behavior at double cations-double halides perovskite - electrode interfaces. *Nano Energy*, **2021**, 89, 106428	17.1	3
27	Self-Assembled Perovskite Nanoislands on CH 3 NH 3 PbI 3 Cuboid Single Crystals by Energetic Surface Engineering (Adv. Funct. Mater. 50/2021). *Advanced Functional Materials*, **2021**, 31, 2170371	15.6	1
26	Selective CO2 electrocatalysis at the pseudocapacitive nanoparticle/ordered-ligand interlayer. *Nature Energy*, **2020**, 5, 1032-1042	62.3	28
25	Imaging mechanism for hyperspectral scanning probe microscopy via Gaussian process modelling. *Npj Computational Materials*, **2020**, 6,	10.9	9
24	Estimating Preisach Density via Subset Selection. *IEEE Access*, **2020**, 8, 61767-61774	3.5	1
23	Device design rules and operation principles of high-power perovskite solar cells for indoor applications. *Nano Energy*, **2020**, 68, 104321	17.1	39
22	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	3
21	Fluorine-mediated porosity and crystal-phase tailoring of meso-macroporous F TiO2 nanofibers and their enhanced photocatalytic performance. *Thin Solid Films*, **2019**, 689, 137523	2.2	1

20	Light- and bias-induced structural variations in metal halide perovskites. *Nature Communications*, **2019**, 10, 444	17.4	51
19	Probing Facet-Dependent Surface Defects in MAPbI3 Perovskite Single Crystals. *Journal of Physical Chemistry C*, **2019**, 123, 14144-14151	3.8	43
18	Temperature-Dependent Magnetic Domain Evolution in Noncollinear Ferrimagnetic FeV2O4 Thin Films. *ACS Applied Electronic Materials*, **2019**, 1, 817-822	4	2
17	Designing materials for electrochemical carbon dioxide recycling. *Nature Catalysis*, **2019**, 2, 648-658	36.5	442
16	Spatially Resolved Carrier Dynamics at MAPbBr Single Crystal-Electrode Interface. *ACS Applied Materials & Interfaces*, **2019**, 11, 41551-41560	9.5	13
15	Humidity-Induced Degradation via Grain Boundaries of HC(NH2)2PbI3 Planar Perovskite Solar Cells. *Advanced Functional Materials*, **2018**, 28, 1705363	15.6	172
14	Room temperature in-plane ferroelectricity in van der Waals InSe. *Science Advances*, **2018**, 4, eaar7720	14.3	135
13	High-Efficiency Rubidium-Incorporated Perovskite Solar Cells by Gas Quenching. *ACS Energy Letters*, **2017**, 2, 438-444	20.1	200
12	Ultrathin Epitaxial Cu@Au Core-Shell Nanowires for Stable Transparent Conductors. *Journal of the American Chemical Society*, **2017**, 139, 7348-7354	16.4	87
11	Electrochemical Activation of CO through Atomic Ordering Transformations of AuCu Nanoparticles. *Journal of the American Chemical Society*, **2017**, 139, 8329-8336	16.4	392
10	Magnetic and Magnetodielectric Properties of Epitaxial Iron Vanadate Thin Films. *Advanced Electronic Materials*, **2017**, 3, 1600295	6.4	7
9	Copper nanoparticle ensembles for selective electroreduction of CO to C-C products. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 10560-10565	11.5	331
8	Control of Architecture in Rhombic Dodecahedral Pt-Ni Nanoframe Electrocatalysts. *Journal of the American Chemical Society*, **2017**, 139, 11678-11681	16.4	140
7	Anisotropic phase segregation and migration of Pt in nanocrystals en route to nanoframe catalysts. *Nature Materials*, **2016**, 15, 1188-1194	27	205
6	Directed Assembly of Nanoparticle Catalysts on Nanowire Photoelectrodes for Photoelectrochemical CO2 Reduction. *Nano Letters*, **2016**, 16, 5675-80	11.5	105
5	Covalent organic frameworks comprising cobalt porphyrins for catalytic CO2 reduction in water. *Science*, **2015**, 349, 1208-13	33.3	1540
4	Künstliche Photosynthese für die Produktion von nachhaltigen Kraftstoffen und chemischen Produkten. *Angewandte Chemie*, **2015**, 127, 3309-3316	3.6	60
3	Artificial photosynthesis for sustainable fuel and chemical production. *Angewandte Chemie - International Edition*, **2015**, 54, 3259-66	16.4	444

2	Synergistic geometric and electronic effects for electrochemical reduction of carbon dioxide using gold-copper bimetallic nanoparticles. *Nature Communications*, **2014**, 5, 4948	17.4	854
1	Self-Assembled Perovskite Nanoislands on CH3NH3PbI3 Cuboid Single Crystals by Energetic Surface Engineering. *Advanced Functional Materials*,2105542	15.6	3