

Dohyung Kim

List of Publications by Citations

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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	Covalent organic frameworks comprising cobalt porphyrins for catalytic CO ₂ reduction in water. <i>Science</i> , 2015 , 349, 1208-13	33.3	1540
36	Synergistic geometric and electronic effects for electrochemical reduction of carbon dioxide using gold-copper bimetallic nanoparticles. <i>Nature Communications</i> , 2014 , 5, 4948	17.4	854
35	Artificial photosynthesis for sustainable fuel and chemical production. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3259-66	16.4	444
34	Designing materials for electrochemical carbon dioxide recycling. <i>Nature Catalysis</i> , 2019 , 2, 648-658	36.5	442
33	Electrochemical Activation of CO through Atomic Ordering Transformations of AuCu Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8329-8336	16.4	392
32	Copper nanoparticle ensembles for selective electroreduction of CO to C-C products. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 10560-10565	11.5	331
31	Anisotropic phase segregation and migration of Pt in nanocrystals en route to nanoframe catalysts. <i>Nature Materials</i> , 2016 , 15, 1188-1194	27	205
30	High-Efficiency Rubidium-Incorporated Perovskite Solar Cells by Gas Quenching. <i>ACS Energy Letters</i> , 2017 , 2, 438-444	20.1	200
29	Humidity-Induced Degradation via Grain Boundaries of HC(NH ₂) ₂ PbI ₃ Planar Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1705363	15.6	172
28	Control of Architecture in Rhombic Dodecahedral Pt-Ni Nanoframe Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11678-11681	16.4	140
27	Room temperature in-plane ferroelectricity in van der Waals InSe. <i>Science Advances</i> , 2018 , 4, eaar7720	14.3	135
26	Directed Assembly of Nanoparticle Catalysts on Nanowire Photoelectrodes for Photoelectrochemical CO ₂ Reduction. <i>Nano Letters</i> , 2016 , 16, 5675-80	11.5	105
25	Ultrathin Epitaxial Cu@Au Core-Shell Nanowires for Stable Transparent Conductors. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7348-7354	16.4	87
24	K�stliche Photosynthese f�r die Produktion von nachhaltigen Kraftstoffen und chemischen Produkten. <i>Angewandte Chemie</i> , 2015 , 127, 3309-3316	3.6	60
23	Light- and bias-induced structural variations in metal halide perovskites. <i>Nature Communications</i> , 2019 , 10, 444	17.4	51
22	Probing Facet-Dependent Surface Defects in MAPbI ₃ Perovskite Single Crystals. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14144-14151	3.8	43
21	Device design rules and operation principles of high-power perovskite solar cells for indoor applications. <i>Nano Energy</i> , 2020 , 68, 104321	17.1	39

20	Selective CO ₂ electrocatalysis at the pseudocapacitive nanoparticle/ordered-ligand interlayer. <i>Nature Energy</i> , 2020 , 5, 1032-1042	62.3	28
19	Spatially Resolved Carrier Dynamics at MAPbBr Single Crystal-Electrode Interface. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 41551-41560	9.5	13
18	Imaging mechanism for hyperspectral scanning probe microscopy via Gaussian process modelling. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	9
17	Magnetic and Magnetodielectric Properties of Epitaxial Iron Vanadate Thin Films. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600295	6.4	7
16	Exploring Transport Behavior in Hybrid Perovskites Solar Cells via Machine Learning Analysis of Environmental-Dependent Impedance Spectroscopy. <i>Advanced Science</i> , 2021 , 8, e2002510	13.6	7
15	The deep-DRT: A deep neural network approach to deconvolve the distribution of relaxation times from multidimensional electrochemical impedance spectroscopy data. <i>Electrochimica Acta</i> , 2021 , 392, 139010	6.7	7
14	Ferroic Halide Perovskite Optoelectronics. <i>Advanced Functional Materials</i> , 2021 , 31, 2102793	15.6	6
13	Nanoparticle Assembly Induced Ligand Interactions for Enhanced Electrocatalytic CO Conversion. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19919-19927	16.4	5
12	Super-resolution and signal separation in contact Kelvin probe force microscopy of electrochemically active ferroelectric materials. <i>Journal of Applied Physics</i> , 2020 , 128, 055101	2.5	3
11	Elucidating the Spatial Dynamics of Charge Carriers in Quasi-Two-Dimensional Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 35133-35141	9.5	3
10	Self-Assembled Perovskite Nanoislands on CH ₃ NH ₃ PbI ₃ Cuboid Single Crystals by Energetic Surface Engineering. <i>Advanced Functional Materials</i> , 2105542	15.6	3
9	Unraveling the hysteretic behavior at double cations-double halides perovskite - electrode interfaces. <i>Nano Energy</i> , 2021 , 89, 106428	17.1	3
8	Temperature-Dependent Magnetic Domain Evolution in Noncollinear Ferrimagnetic FeV ₂ O ₄ Thin Films. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 817-822	4	2
7	Ferroelectric and Charge Transport Properties in Strain-Engineered Two-Dimensional Lead Iodide Perovskites. <i>Chemistry of Materials</i> , 2021 , 33, 4077-4088	9.6	2
6	Navigating grain boundaries in perovskite solar cells. <i>Matter</i> , 2021 , 4, 1442-1445	12.7	2
5	Fluorine-mediated porosity and crystal-phase tailoring of meso-macroporous F TiO ₂ nanofibers and their enhanced photocatalytic performance. <i>Thin Solid Films</i> , 2019 , 689, 137523	2.2	1
4	Estimating Preisach Density via Subset Selection. <i>IEEE Access</i> , 2020 , 8, 61767-61774	3.5	1
3	Self-Assembled Perovskite Nanoislands on CH ₃ NH ₃ PbI ₃ Cuboid Single Crystals by Energetic Surface Engineering (Adv. Funct. Mater. 50/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170371	15.6	1

2	Exploring Responses of Contact Kelvin Probe Force Microscopy in Triple-Cation Double-Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 12355-12365	3.8	o
1	Ferroic Halide Perovskite Optoelectronics (Adv. Funct. Mater. 36/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170263	15.6	o