

# Young-Kwang Jung

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

1,604  
citations

516561

16  
h-index

642610

23  
g-index

34  
all docs

34  
docs citations

34  
times ranked

2597  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lattice strain causes non-radiative losses in halide perovskites. <i>Energy and Environmental Science</i> , 2019, 12, 596-606.	15.6	343
2	Performance-limiting nanoscale trap clusters at grain junctions in halide perovskites. <i>Nature</i> , 2020, 580, 360-366.	13.7	255
3	Accumulation of Deep Traps at Grain Boundaries in Halide Perovskites. <i>ACS Energy Letters</i> , 2019, 4, 1321-1327.	8.8	117
4	Stabilized tilted-octahedra halide perovskites inhibit local formation of performance-limiting phases. <i>Science</i> , 2021, 374, 1598-1605.	6.0	115
5	Perspective: Theory and simulation of hybrid halide perovskites. <i>Journal of Chemical Physics</i> , 2017, 146, 220901.	1.2	111
6	Lattice Compression Increases the Activation Barrier for Phase Segregation in Mixed-Halide Perovskites. <i>ACS Energy Letters</i> , 2020, 5, 3152-3158.	8.8	90
7	Influence of Rb/Cs Cation-Exchange on Inorganic Sn Halide Perovskites: From Chemical Structure to Physical Properties. <i>Chemistry of Materials</i> , 2017, 29, 3181-3188.	3.2	89
8	Thermodynamic Stabilization of Mixed-Halide Perovskites against Phase Segregation. <i>Cell Reports Physical Science</i> , 2020, 1, 100120.	2.8	56
9	Trimethylsulfonium Lead Triiodide: An Air-Stable Hybrid Halide Perovskite. <i>Inorganic Chemistry</i> , 2017, 56, 6302-6309.	1.9	52
10	Intrinsic doping limit and defect-assisted luminescence in Cs <sub>4</sub> PbBr <sub>6</sub> . <i>Journal of Materials Chemistry A</i> , 2019, 7, 20254-20261.	5.2	48
11	Elucidating the origin of chiroptical activity in chiral 2D perovskites through nano-confined growth. <i>Nature Communications</i> , 2022, 13, .	5.8	41
12	Halide Perovskite Heteroepitaxy: Bond Formation and Carrier Confinement at the PbS/CsPbBr <sub>3</sub> Interface. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27351-27356.	1.5	40
13	Exploring stereographic surface energy maps of cubic metals via an effective pair-potential approach. <i>Physical Review B</i> , 2016, 93, .	1.1	32
14	Prediction of high thermoelectric performance in the low-dimensional metal halide Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> . <i>Npj Computational Materials</i> , 2021, 7, .	3.5	26
15	Low-dimensional formamidinium lead perovskite architectures <i>via</i> controllable solvent intercalation. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3945-3951.	2.7	23
16	Low Barrier for Exciton Self-Trapping Enables High Photoluminescence Quantum Yield in Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> . <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8447-8452.	2.1	16
17	Asymmetric carrier transport in flexible interface-type memristor enables artificial synapses with sub-femtojoule energy consumption. <i>Nanoscale Horizons</i> , 2021, 6, 987-997.	4.1	16
18	Bismuth Doping Alters Structural Phase Transitions in Methylammonium Lead Tribromide Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2749-2755.	2.1	14

#	ARTICLE	IF	CITATIONS
19	Quick-start guide for first-principles modelling of semiconductor interfaces. <i>JPhys Energy</i> , 2019, 1, 016001.	2.3	12
20	Interfacial Dipole Layer Enables High-Performance Heterojunctions for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , 2022, 7, 1392-1402.	8.8	11
21	Eventual Chemical Transformation of Metals and Chalcogens into Metal Chalcogenide Nanoplates through a Surface Nucleation-Detachment-Reorganization Mechanism. <i>Chemistry of Materials</i> , 2017, 29, 3219-3227.	3.2	10
22	Mixed-dimensional Formamidinium Bismuth Iodides Featuring In-situ Formed Type-II Band Structure for Convolution Neural Networks. <i>Advanced Science</i> , 2022, 9, e2200168.	5.6	8
23	A density functional theory study on the interface stability between CsPbBr <sub>3</sub> and CuI. <i>AIP Advances</i> , 2020, 10, .	0.6	4
24	External pressure to manipulate phase segregation in mixed-halide perovskites. , 0, , .		0
25	Nanoscale Heterogeneities Limit Optoelectronic Performance in Halide Perovskites. , 0, , .		0
26	Lattice compression increases the activation barrier for phase segregation in mixed-halide perovskites. , 0, , .		0
27	Octahedral Tilt Engineering: Atomic-Level Picture of Stabilized $\hat{\pm}$ -FAPbI <sub>3</sub> . , 0, , .		0
28	Tilted-octahedra stabilize FA rich halide perovskites. , 0, , .		0