

# Ki-Ha Hong

## List of Publications by Year in descending order

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38  
papers

1,817  
citations

516710

16  
h-index

315739

38  
g-index

41  
all docs

41  
docs citations

41  
times ranked

3643  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Light Emission through Symmetry Engineering of Halide Perovskites. <i>Journal of the American Chemical Society</i> , 2022, 144, 297-305.	13.7	5
2	Achieving Green and Deep-Blue Perovskite LEDs by Dimensional Control Using Various Ammonium Bromides with CsPbBr <sub>3</sub> . <i>Materials Today Energy</i> , 2021, , 100749.	4.7	9
3	Femtosecond Quantum Dynamics of Excited-State Evolution of Halide Perovskites: Quantum Chaos of Molecular Cations. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10676-10684.	3.1	1
4	Dual-Site Compositional Engineering of Bismuth-Based Halide Perovskites for Stable and Efficient Lead-free Solar Cells. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13138-13145.	3.1	10
5	Simultaneous Enhanced Efficiency and Stability of Perovskite Solar Cells Using Adhesive Fluorinated Polymer Interfacial Material. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 35595-35605.	8.0	20
6	Present Status and Research Prospects of Tin-based Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900310.	5.8	60
7	Bulk and interfacial decomposition of formamidinium iodide (HC(NH <sub>2</sub> ) <sub>2</sub> ) <sub>2</sub> I in contact with metal oxide. <i>Materials Advances</i> , 2020, 1, 3349-3357.	5.4	14
8	Interstitial Engineering toward Stable Tin Halide Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000513.	5.8	9
9	Phase Selection of Cesium Lead Triiodides through Surface Ligand Engineering. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4232-4238.	4.6	4
10	Dual-site mixed layer-structured FA <sub>x</sub> Cs <sub>3-3x</sub> Sb <sub>2</sub> Cl <sub>6</sub> Pb-free metal halide perovskite solar cells. <i>RSC Advances</i> , 2020, 10, 17724-17730.	3.6	8
11	Altered Stability and Degradation Pathway of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> in Contact with Metal Oxide. <i>ACS Energy Letters</i> , 2020, 5, 1147-1152.	17.4	51
12	Thermodynamics of Multicomponent Perovskites: A Guide to Highly Efficient and Stable Solar Cell Materials. <i>Chemistry of Materials</i> , 2020, 32, 4265-4272.	6.7	26
13	Data on lateral collection length of charge carriers depending on pre-white-light soaking process for metal mesh transparent electrode based Cu(In,Ga)Se <sub>2</sub> solar cells. <i>Data in Brief</i> , 2019, 25, 104407.	1.0	0
14	Rapid large-grain (>100 nm) formation of organic-inorganic perovskite thin films via shear deposition for photovoltaic application. <i>Solar Energy</i> , 2019, 191, 629-636.	6.1	10
15	Determination of the lateral collection length of charge carriers for silver-nanowire-electrode-based Cu(In,Ga)Se <sub>2</sub> thin-film solar cells. <i>Solar Energy</i> , 2019, 180, 519-523.	6.1	13
16	Role of Quantum Confinement in 10 nm Scale Perovskite Optoelectronics. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2745-2752.	4.6	8
17	Mixed Valence Perovskite Cs <sub>2</sub> Au <sub>2</sub> I <sub>6</sub> : A Potential Material for Thin-Film Pb-free Photovoltaic Cells with Ultrahigh Efficiency. <i>Advanced Materials</i> , 2018, 30, e1707001.	21.0	79
18	The role of Cr on oxide formation in Ni-Cr alloys: A theoretical study. <i>Computational Materials Science</i> , 2018, 142, 185-191.	3.0	11

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19	Roles of SnX <sub>2</sub> (X = F, Cl, Br) Additives in Tin-Based Halide Perovskites toward Highly Efficient and Stable Lead-Free Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6024-6031.	4.6	121
20	Robust nanoscale contact of silver nanowire electrodes to semiconductors to achieve high performance chalcogenide thin film solar cells. <i>Nano Energy</i> , 2018, 53, 675-682.	16.0	30
21	Impacts of cation ordering on bandgap dispersion of double perovskites. <i>APL Materials</i> , 2018, 6, .	5.1	14
22	Development of Mixed-Cation Cs <sub>x</sub> Rb <sub>1-x</sub> PbX <sub>3</sub> Perovskite Quantum Dots and Their Full-Color Film with High Stability and Wide Color Gamut. <i>Advanced Optical Materials</i> , 2018, 6, 1800295.	7.3	43
23	Highly Stable All-Inorganic Pb-Free Perovskite Solar Cells. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2018, 13, 1764-1768.	0.5	6
24	Planar Type Trivalent Bismuth Based Pb-Free Perovskite Solar Cells. <i>Nanoscience and Nanotechnology Letters</i> , 2018, 10, 591-595.	0.4	8
25	Polymorphic Phase Control Mechanism of Organic-Inorganic Hybrid Perovskite Engineered by Dual-Site Alloying. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9508-9515.	3.1	16
26	Band Gap Engineering of Cs <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> Perovskites with Trivalent Atoms Using a Dual Metal Cation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 969-974.	3.1	49
27	Cu(In,Ga)Se <sub>2</sub> thin film solar cells with solution processed silver nanowire composite window layers: Buffer/window junctions and their effects. <i>Solar Energy Materials and Solar Cells</i> , 2017, 170, 60-67.	6.2	23
28	Prediction of potential candidates for dispersion strengthening materials in Ni based alloys. <i>Computational Materials Science</i> , 2016, 117, 215-220.	3.0	7
29	Understanding of the formation of shallow level defects from the intrinsic defects of lead tri-halide perovskites. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27143-27147.	2.8	62
30	Thermoelectric materials by using two-dimensional materials with negative correlation between electrical and thermal conductivity. <i>Nature Communications</i> , 2016, 7, 12011.	12.8	173
31	Systematic analysis of the unique band gap modulation of mixed halide perovskites. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4423-4428.	2.8	26
32	Importance of Orbital Interactions in Determining Electronic Band Structures of Organo-Lead Iodide. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4627-4634.	3.1	66
33	Atomistic Study on Dopant-Distributions in Realistically Sized, Highly P-Doped Si Nanowires. <i>Nano Letters</i> , 2015, 15, 450-456.	9.1	12
34	Ordered Vacancy Compound Formation by Controlling Element Redistribution in Molecular-Level Precursor Solution Processed CuInSe <sub>2</sub> Thin Films. <i>Chemistry of Materials</i> , 2015, 27, 7244-7247.	6.7	17
35	The Role of Intrinsic Defects in Methylammonium Lead Iodide Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1312-1317.	4.6	744
36	Effects of oxygen plasma treatment on V <sub>th</sub> uniformity of recessed-gate AlGaIn/GaN HEMTs. <i>Electronic Materials Letters</i> , 2014, 10, 363-367.	2.2	7

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37	A Pathway to Type-I Band Alignment in Ge/Si Core-Shell Nanowires. Journal of Physical Chemistry Letters, 2013, 4, 121-126.	4.6	14
38	Asymmetric Doping in Silicon Nanostructures: The Impact of Surface Dangling Bonds. Nano Letters, 2010, 10, 1671-1676.	9.1	38