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	The Role of Intrinsic Defects in Methylammonium Lead Iodide Perovskite. Journal of Physical Chemistry Letters, 2014, 5, 1312-1317.	4.6	744
2	Thermoelectric materials by using two-dimensional materials with negative correlation between electrical and thermal conductivity. Nature Communications, 2016, 7, 12011.	12.8	173
3	Roles of SnX₂ (X = F, Cl, Br) Additives in Tin-Based Halide Perovskites toward Highly Efficient and Stable Lead-Free Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2018, 9, 6024-6031.	4.6	121
4	Mixed Valence Perovskite Cs₂Au₂I₆: A Potential Material for Thinâ€Film Pbâ€Free Photovoltaic Cells with Ultrahigh Efficiency. Advanced Materials, 2018, 30, e1707001.	21.0	79
5	Importance of Orbital Interactions in Determining Electronic Band Structures of Organo-Lead Iodide. Journal of Physical Chemistry C, 2015, 119, 4627-4634.	3.1	66
6	Understanding of the formation of shallow level defects from the intrinsic defects of lead tri-halide perovskites. Physical Chemistry Chemical Physics, 2016, 18, 27143-27147.	2.8	62
7	Present Status and Research Prospects of Tinâ€based Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900310.	5.8	60
8	Altered Stability and Degradation Pathway of CH₃NH₃PbI₃ in Contact with Metal Oxide. ACS Energy Letters, 2020, 5, 1147-1152.	17.4	51
9	Band Gap Engineering of Cs₃Bi₂I₉ Perovskites with Trivalent Atoms Using a Dual Metal Cation. Journal of Physical Chemistry C, 2017, 121, 969-974.	3.1	49
10	Development of Mixedâ€Cation Cs_xRb_{1â€“}_xPbX₃ Perovskite Quantum Dots and Their Fullâ€Color Film with High Stability and Wide Color Gamut. Advanced Optical Materials, 2018, 6, 1800295.	7.3	43
11	Asymmetric Doping in Silicon Nanostructures: The Impact of Surface Dangling Bonds. Nano Letters, 2010, 10, 1671-1676.	9.1	38
12	Robust nanoscale contact of silver nanowire electrodes to semiconductors to achieve high performance chalcogenide thin film solar cells. Nano Energy, 2018, 53, 675-682.	16.0	30
13	Systematic analysis of the unique band gap modulation of mixed halide perovskites. Physical Chemistry Chemical Physics, 2016, 18, 4423-4428.	2.8	26
14	Thermodynamics of Multicomponent Perovskites: A Guide to Highly Efficient and Stable Solar Cell Materials. Chemistry of Materials, 2020, 32, 4265-4272.	6.7	26
15	Cu(In,Ga)Se2 thin film solar cells with solution processed silver nanowire composite window layers: Buffer/window junctions and their effects. Solar Energy Materials and Solar Cells, 2017, 170, 60-67.	6.2	23
16	Simultaneous Enhanced Efficiency and Stability of Perovskite Solar Cells Using Adhesive Fluorinated Polymer Interfacial Material. ACS Applied Materials & Interfaces, 2021, 13, 35595-35605.	8.0	20
17	Ordered Vacancy Compound Formation by Controlling Element Redistribution in Molecular-Level Precursor Solution Processed CuInSe2 Thin Films. Chemistry of Materials, 2015, 27, 7244-7247.	6.7	17
18	Polymorphic Phase Control Mechanism of Organicâ€“Inorganic Hybrid Perovskite Engineered by Dual-Site Alloying. Journal of Physical Chemistry C, 2017, 121, 9508-9515.	3.1	16

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19	A Pathway to Type-I Band Alignment in Ge/Si Coreâ€“Shell Nanowires. Journal of Physical Chemistry Letters, 2013, 4, 121-126.	4.6	14
20	Impacts of cation ordering on bandgap dispersion of double perovskites. APL Materials, 2018, 6, .	5.1	14
21	Bulk and interfacial decomposition of formamidinium iodide (HC(NH₂)₂I) in contact with metal oxide. Materials Advances, 2020, 1, 3349-3357.	5.4	14
22	Determination of the lateral collection length of charge carriers for silver-nanowire-electrode-based Cu(In,Ga)Se2 thin-film solar cells. Solar Energy, 2019, 180, 519-523.	6.1	13
23	Atomistic Study on Dopant-Distributions in Realistically Sized, Highly P-Doped Si Nanowires. Nano Letters, 2015, 15, 450-456.	9.1	12
24	The role of Cr on oxide formation in Ni-Cr alloys: A theoretical study. Computational Materials Science, 2018, 142, 185-191.	3.0	11
25	Rapid large-grain (>100â€Î¼m) formation of organic-inorganic perovskite thin films via shear deposition for photovoltaic application. Solar Energy, 2019, 191, 629-636.	6.1	10
26	Dual-Site Compositional Engineering of Bismuth-Based Halide Perovskites for Stable and Efficient Lead-free Solar Cells. Journal of Physical Chemistry C, 2021, 125, 13138-13145.	3.1	10
27	Interstitial Engineering toward Stable Tin Halide Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000513.	5.8	9
28	Achieving Green and Deep-Blue Perovskite LEDs by Dimensional Control Using Various Ammonium Bromides with CsPbBr-3. Materials Today Energy, 2021, , 100749.	4.7	9
29	Role of Quantum Confinement in 10 nm Scale Perovskite Optoelectronics. Journal of Physical Chemistry Letters, 2019, 10, 2745-2752.	4.6	8
30	Dual-site mixed layer-structured FA_xCs_{3â^'x}Sb₂I₆Cl₃ Pb-free metal halide perovskite solar cells. RSC Advances, 2020, 10, 17724-17730.	3.6	8
31	Planar Type Trivalent Bismuth Based Pb-Free Perovskite Solar Cells. Nanoscience and Nanotechnology Letters, 2018, 10, 591-595.	0.4	8
32	Effects of oxygen plasma treatment on V th uniformity of recessed-gate AlGaN/GaN HEMTs. Electronic Materials Letters, 2014, 10, 363-367.	2.2	7
33	Prediction of potential candidates for dispersion strengthening materials in Ni based alloys. Computational Materials Science, 2016, 117, 215-220.	3.0	7
34	Highly Stable All-Inorganic Pb-Free Perovskite Solar Cells. Journal of Nanoelectronics and Optoelectronics, 2018, 13, 1764-1768.	0.5	6
35	Enhanced Light Emission through Symmetry Engineering of Halide Perovskites. Journal of the American Chemical Society, 2022, 144, 297-305.	13.7	5
36	Phase Selection of Cesium Lead Triiodides through Surface Ligand Engineering. Journal of Physical Chemistry Letters, 2020, 11, 4232-4238.	4.6	4

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37	Femtosecond Quantum Dynamics of Excited-State Evolution of Halide Perovskites: Quantum Chaos of Molecular Cations. Journal of Physical Chemistry C, 2021, 125, 10676-10684.	3.1	1
38	Data on lateral collection length of charge carriers depending on pre-white-light soaking process for metal mesh transparent electrode based Cu(In,Ga)Se2 solar cells. Data in Brief, 2019, 25, 104407.	1.0	0