

Gi-Hwan Kim

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

4,988
citations

186265

28
h-index

182427

51
g-index

51
all docs

51
docs citations

51
times ranked

7195
citing authors

#	ARTICLE	IF	CITATIONS
1	Suppression of halide migration and immobile ionic surface passivation for blue perovskite light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2060-2066.	5.5	12
2	Enhanced electrical properties of Li-salts doped mesoporous TiO ₂ in perovskite solar cells. <i>Joule</i> , 2021, 5, 659-672.	24.0	127
3	Highly Stable Bulk Perovskite for Blue LEDs with Anion-Exchange Method. <i>Nano Letters</i> , 2021, 21, 3473-3479.	9.1	36
4	Development of perovskite solar cells with >25% conversion efficiency. <i>Joule</i> , 2021, 5, 1033-1035.	24.0	137
5	An intermediate phase stability for high performance of perovskite solar cells. <i>Matter</i> , 2021, 4, 3377-3378.	10.0	2
6	Origin of the luminescence spectra width in perovskite nanocrystals with surface passivation. <i>Nanoscale</i> , 2020, 12, 21695-21702.	5.6	16
7	Effects of cation size and concentration of cationic chlorides on the properties of formamidinium lead iodide based perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3753-3763.	4.9	17
8	Functionalized PFN-X (X = Cl, Br, or I) for Balanced Charge Carriers of Highly Efficient Blue Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35740-35747.	8.0	31
9	High-Performance Perovskite Light-Emitting Diodes with Surface Passivation of CsPbBr ₃ /I ₃ Nanocrystals via Antisolvent-Triggered Ion-Exchange. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31582-31590.	8.0	22
10	Methylammonium Chloride Induces Intermediate Phase Stabilization for Efficient Perovskite Solar Cells. <i>Joule</i> , 2019, 3, 2179-2192.	24.0	1,228
11	A thermally stable, barium-stabilized $\text{A}^{\pm}\text{-CsPbI}_3$ perovskite for optoelectronic devices. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21740-21746.	10.3	37
12	Vivid and Fully Saturated Blue Light-Emitting Diodes Based on Ligand-Modified Halide Perovskite Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23401-23409.	8.0	60
13	Spectra stable blue perovskite light-emitting diodes. <i>Nature Communications</i> , 2019, 10, 1868.	12.8	344
14	The optimization of intermediate semi ² bonding structure using solvent vapor annealing for high performance p-i-n structure perovskite solar cells. <i>Organic Electronics</i> , 2019, 65, 300-304.	2.6	5
15	Reversible, Full-Color Luminescence by Post-treatment of Perovskite Nanocrystals. <i>Joule</i> , 2018, 2, 2105-2116.	24.0	61
16	The introduction of a perovskite seed layer for high performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20138-20144.	10.3	12
17	Ambient-Stable Cubic-Phase Hybrid Perovskite Reaching the Shockley-Queisser Fill Factor Limit via Inorganic Additive-Assisted Process. <i>ACS Applied Energy Materials</i> , 2018, 1, 5865-5871.	5.1	13
18	Formamidinium-based planar heterojunction perovskite solar cells with alkali carbonate-doped zinc oxide layer. <i>RSC Advances</i> , 2018, 8, 24110-24115.	3.6	10

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19	Fast vaporizing anti-solvent for high crystalline perovskite to achieve high performance perovskite solar cells. <i>Thin Solid Films</i> , 2018, 661, 122-127.	1.8	11
20	High-Temperatureâ€“Short-Time Annealing Process for High-Performance Large-Area Perovskite Solar Cells. <i>ACS Nano</i> , 2017, 11, 6057-6064.	14.6	142
21	Field-emission from quantum-dot-in-perovskite solids. <i>Nature Communications</i> , 2017, 8, 14757.	12.8	83
22	Fluorine Functionalized Graphene Nano Platelets for Highly Stable Inverted Perovskite Solar Cells. <i>Nano Letters</i> , 2017, 17, 6385-6390.	9.1	106
23	Ternary Halide Perovskites for Highly Efficient Solution-Processed Hybrid Solar Cells. <i>ACS Energy Letters</i> , 2016, 1, 712-718.	17.4	24
24	Pure Cubicâ€“Phase Hybrid Iodobismuthates AgBi_2I_7 for Thinâ€“Film Photovoltaics. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9586-9590.	13.8	201
25	Pure Cubicâ€“Phase Hybrid Iodobismuthates AgBi_2I_7 for Thinâ€“Film Photovoltaics. <i>Angewandte Chemie</i> , 2016, 128, 9738-9742.	2.0	42
26	Clean thermal decomposition of tertiary-alkyl metal thiolates to metal sulfides: environmentally-benign, non-polar inks for solution-processed chalcopyrite solar cells. <i>Scientific Reports</i> , 2016, 6, 36608.	3.3	11
27	Photocurrent Extraction Efficiency near Unity in a Thick Polymer Bulk Heterojunction. <i>Advanced Functional Materials</i> , 2016, 26, 3324-3330.	14.9	48
28	Passivation Using Molecular Halides Increases Quantum Dot Solar Cell Performance. <i>Advanced Materials</i> , 2016, 28, 299-304.	21.0	312
29	Doubleâ€“Sided Junctions Enable Highâ€“Performance Colloidalâ€“Quantumâ€“Dot Photovoltaics. <i>Advanced Materials</i> , 2016, 28, 4142-4148.	21.0	121
30	Colloidal $\text{CdSe}_x\text{S}_{1-x}$ Nanoplatelets with Narrow and Continuously-Tunable Electroluminescence. <i>Nano Letters</i> , 2015, 15, 4611-4615.	9.1	114
31	Synergistic photocurrent addition in hybrid quantum dot: Bulk heterojunction solar cells. <i>Nano Energy</i> , 2015, 13, 491-499.	16.0	18
32	High-Efficiency Colloidal Quantum Dot Photovoltaics via Robust Self-Assembled Monolayers. <i>Nano Letters</i> , 2015, 15, 7691-7696.	9.1	198
33	Colloidal Quantum Dot Photovoltaics Enhanced by Perovskite Shelling. <i>Nano Letters</i> , 2015, 15, 7539-7543.	9.1	173
34	Optimal top electrodes for inverted polymer solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2152-2159.	2.8	27
35	Synthesis of PCDTBT-Based Fluorinated Polymers for High Open-Circuit Voltage in Organic Photovoltaics: Towards an Understanding of Relationships between Polymer Energy Levels Engineering and Ideal Morphology Control. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7523-7534.	8.0	88
36	Cesium-doped methylammonium lead iodide perovskite light absorber for hybrid solar cells. <i>Nano Energy</i> , 2014, 7, 80-85.	16.0	459

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37	Inverted Colloidal Quantum Dot Solar Cells. <i>Advanced Materials</i> , 2014, 26, 3321-3327.	21.0	59
38	Semicrystalline Dâ€‘A Copolymers with Different Chain Curvature for Applications in Polymer Optoelectronic Devices. <i>Macromolecules</i> , 2014, 47, 1604-1612.	4.8	95
39	Solution-processed CdS transistors with high electron mobility. <i>RSC Advances</i> , 2014, 4, 3153-3157.	3.6	19
40	Vapor Coating Method Using Small-Molecule Organic Surface Modifiers to Replace N-Type Metal Oxide Layers in Inverted Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6504-6509.	8.0	4
41	Effects of Ionic Liquid Molecules in Hybrid PbS Quantum Dotâ€‘Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1757-1760.	8.0	39
42	Dithieno[3,2â€‘i>b</i>:2â€‘2,3â€‘2â€‘i>d</i>]pyrrole and Benzothiadiazoleâ€‘Based Semicrystalline Copolymer for Photovoltaic Devices with Indeneâ€‘C₆₀ Bisadduct. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 2083-2090.	2.2	7
43	Observation of ambipolar field-effect behavior in donorâ€‘acceptor conjugated copolymers. <i>Journal of Materials Chemistry</i> , 2012, 22, 21238.	6.7	12
44	Replacing 2,1,3-benzothiadiazole with 2,1,3-naphthothiadiazole in PCDTBT: towards a low bandgap polymer with deep HOMO energy level. <i>Polymer Chemistry</i> , 2012, 3, 3276.	3.9	27
45	Molecular engineering of conjugated polymers for solar cells and fieldâ€‘effect transistors: Sideâ€‘chain versus mainâ€‘chain electron acceptors. <i>Journal of Polymer Science Part A</i> , 2012, 50, 271-279.	2.3	6
46	Ladder-type heteroacene polymers bearing carbazole and thiophene ring units and their use in field-effect transistors and photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 843-850.	6.7	48
47	Synthesis and photovoltaic properties of conjugated copolymers based on benzimidazole and various thiophene. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3751-3758.	2.3	4
48	Combination of Titanium Oxide and a Conjugated Polyelectrolyte for Highâ€‘Performance Invertedâ€‘Type Organic Optoelectronic Devices. <i>Advanced Materials</i> , 2011, 23, 2759-2763.	21.0	242
49	The effect of introducing a buffer layer to polymer solar cells on cell efficiency. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1119-1122.	6.2	37
50	Towards optimization of P3HT:bisPCBM composites for highly efficient polymer solar cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 7710.	6.7	31