

Dongguen Shin

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

547
citations

566801

15
h-index

642321

23
g-index

30
all docs

30
docs citations

30
times ranked

1083
citing authors

#	ARTICLE	IF	CITATIONS
1	Introducing paired electric dipole layers for efficient and reproducible perovskite solar cells. <i>Energy and Environmental Science</i> , 2018, 11, 1742-1751.	15.6	76
2	Band-Tail Transport of CuSCN: Origin of Hole Extraction Enhancement in Organic Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2856-2861.	2.1	37
3	Rapid Formation of a Disordered Layer on Monoclinic BiVO ₄ : Co-Catalyst-Free Photoelectrochemical Solar Water Splitting. <i>ChemSusChem</i> , 2018, 11, 933-940.	3.6	34
4	Electron transport mechanism of bathocuproine exciton blocking layer in organic photovoltaics. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5444-5452.	1.3	32
5	Unraveling the Charge Extraction Mechanism of Perovskite Solar Cells Fabricated with Two-Step Spin Coating: Interfacial Energetics between Methylammonium Lead Iodide and C ₆₀ . <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5423-5429.	2.1	32
6	A solution-processable inorganic hole injection layer that improves the performance of quantum-dot light-emitting diodes. <i>Current Applied Physics</i> , 2017, 17, 442-447.	1.1	31
7	Electronic Structure of Nonionic Surfactant-Modified PEDOT:PSS and Its Application in Perovskite Solar Cells with Reduced Interface Recombination. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17028-17034.	4.0	30
8	Band Alignment Engineering between Planar SnO ₂ and Halide Perovskites via Two-Step Annealing. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6545-6550.	2.1	28
9	The Schottky-Mott Rule Expanded for Two-Dimensional Semiconductors: Influence of Substrate Dielectric Screening. <i>ACS Nano</i> , 2021, 15, 14794-14803.	7.3	25
10	Phase formation and local charge transport of lead-free CH ₃ NH ₃ Sn(I _{1-x} Br _x) ₃ (0 ≤ x ≤ 1) perovskite solar cells fabricated by solvent optimization. <i>Solar Energy</i> , 2019, 186, 136-144.	2.9	23
11	Improved Stability of Interfacial Energy-Level Alignment in Inverted Planar Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18964-18973.	4.0	22
12	Interfacial energy level alignments between low-band-gap polymer PTB7 and indium zinc oxide anode. <i>Applied Physics Express</i> , 2015, 8, 095701.	1.1	19
13	Integrated advantages from perovskite photovoltaic cell and 2D MoTe ₂ transistor towards self-power energy harvesting and photosensing. <i>Nano Energy</i> , 2019, 63, 103833.	8.2	19
14	Type-II Energy Level Alignment at the PTCDA/Monolayer MoS ₂ Interface Promotes Resonance Energy Transfer and Luminescence Enhancement. <i>Advanced Science</i> , 2021, 8, 2100215.	5.6	19
15	Mechanism and Timescales of Reversible p-Doping of Methylammonium Lead Triiodide by Oxygen. <i>Advanced Materials</i> , 2021, 33, e2100211.	11.1	17
16	Position-locking of volatile reaction products by atmosphere and capping layers slows down photodecomposition of methylammonium lead triiodide perovskite. <i>RSC Advances</i> , 2020, 10, 17534-17542.	1.7	16
17	Electronic properties of metal halide perovskites and their interfaces: the basics. <i>Materials Horizons</i> , 2021, , .	6.4	14
18	Temperature-Dependent Electronic Ground-State Charge Transfer in van der Waals Heterostructures. <i>Advanced Materials</i> , 2021, 33, e2008677.	11.1	12

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19	Photoinduced Energy-Level Realignment at Interfaces between Organic Semiconductors and Metal-Halide Perovskites. <i>Physical Review Letters</i> , 2021, 127, 246401.	2.9	11
20	Versatile hole injection of VO ₂ : Energy level alignment at N,N'-di(1-naphthyl)-N,N'-diphenyl-(1,1'-biphenyl)-4,4'-diamine/VO ₂ /fluorine-doped tin oxide. <i>Organic Electronics</i> , 2015, 16, 133-138.	1.4	10
21	Illumination-Driven Energy Level Realignment at Buried Interfaces between Organic Charge Transport Layers and a Lead Halide Perovskite. <i>Solar Rrl</i> , 2022, 6, .	3.1	8
22	Unveiling the origin of performance reduction in perovskite solar cells with TiO ₂ electron transport layer: Conduction band minimum mismatches and chemical interactions at buried interface. <i>Applied Surface Science</i> , 2019, 495, 143490.	3.1	7
23	Origin of temperature-dependent performance of hole-transport-layer-free perovskite solar cells doped with CuSCN. <i>Organic Electronics</i> , 2020, 87, 105958.	1.4	7
24	Reversible oxygen-induced p-doping of mixed-cation halide perovskites. <i>APL Materials</i> , 2021, 9, 081104.	2.2	6
25	Strong interfacial dipole formation with thermal evaporation of lithium cobalt oxide for efficient electron injections. <i>Applied Physics Letters</i> , 2013, 102, 033302.	1.5	5
26	Enhancing the Performance of Inverted Organic Photovoltaics Using Cathode Interlayers Based on Solution-Processable Tetrabutylammonium Halides. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1700250.	1.2	3
27	Evidence for the changes in hole injection mechanism with a CoPc hole injection layer. <i>Current Applied Physics</i> , 2014, 14, 778-783.	1.1	2
28	Impact of Diethyl Ether Dripping Delay Time on the Electronic Structure of Methylammonium Lead Triiodide Perovskite Film. <i>Journal of the Korean Physical Society</i> , 2020, 76, 162-166.	0.3	2
29	van der Waals Heterostructures: Type-I Energy Level Alignment at the PTCDA Monolayer MoS ₂ Interface Promotes Resonance Energy Transfer and Luminescence Enhancement (Adv. Sci. 12/2021). <i>Advanced Science</i> , 2021, 8, 2170071.	5.6	0
30	Van der Waals Heterostructures: Temperature-Dependent Electronic Ground-State Charge Transfer in van der Waals Heterostructures (Adv. Mater. 29/2021). <i>Advanced Materials</i> , 2021, 33, 2170229.	11.1	0