

Karunakara Moorthy Boopathi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32
papers

1,383
citations

21
h-index

32
g-index

32
ext. papers

1,640
ext. citations

10.8
avg, IF

4.47
L-index

#	Paper	IF	Citations
32	Mixed Dimethylammonium/Methylammonium Lead Halide Perovskite Single Crystals for Improved Structural Stability and Enhanced Photodetection. <i>Advanced Materials</i> , 2021 , e2106160	24	6
31	An Insight into the Electrochemical Activity of Al-doped V2O3. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 100514	3.9	5
30	Layered perovskite materials: key solutions for highly efficient and stable perovskite solar cells. <i>Reports on Progress in Physics</i> , 2020 , 83, 086502	14.4	23
29	Permanent Lattice Compression of Lead-Halide Perovskite for Persistently Enhanced Optoelectronic Properties. <i>ACS Energy Letters</i> , 2020 , 5, 642-649	20.1	21
28	Lead-Free Antimony-Based Light-Emitting Diodes through the Vapor-Anion-Exchange Method. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35088-35094	9.5	42
27	A lithium passivated MoO nanobelt decorated polypropylene separator for fast-charging long-life Li-S batteries. <i>Nanoscale</i> , 2019 , 11, 2892-2900	7.7	24
26	Bilayer polymer solar cells prepared with transfer printing of active layers from controlled swelling/de-swelling of PDMS. <i>Nano Energy</i> , 2019 , 63, 103826	17.1	16
25	Mitigating Metal Dendrite Formation in Lithium-Sulfur Batteries via Morphology-Tunable Graphene Oxide Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2060-2070	9.5	12
24	UV- and NIR-Protective Semitransparent Smart Windows Based on Metal Halide Solar Cells. <i>ACS Applied Energy Materials</i> , 2018 , 1, 632-637	6.1	15
23	Photovoltaic Performance of Vapor-Assisted Solution-Processed Layer Polymorph of CsSbI. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2566-2573	9.5	84
22	Role of a hydrophobic scaffold in controlling the crystallization of methylammonium antimony iodide for efficient lead-free perovskite solar cells. <i>Nano Energy</i> , 2018 , 45, 330-336	17.1	36
21	A novel ball milling technique for room temperature processing of TiO2 nanoparticles employed as the electron transport layer in perovskite solar cells and modules. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7114-7122	13	26
20	Top Illuminated Hysteresis-Free Perovskite Solar Cells Incorporating Microcavity Structures on Metal Electrodes: A Combined Experimental and Theoretical Approach. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17973-17984	9.5	23
19	Whispering Gallery Mode Lasing from Self-Assembled Hexagonal Perovskite Single Crystals and Porous Thin Films Decorated by Dielectric Spherical Resonators. <i>ACS Photonics</i> , 2017 , 4, 146-155	6.3	18
18	Synthesis of fluorinated benzotriazole (BTZ)- and benzodithiophene (BDT)-based low-bandgap conjugated polymers for solar cell applications. <i>Dyes and Pigments</i> , 2017 , 139, 349-360	4.6	11
17	Solution-processable antimony-based light-absorbing materials beyond lead halide perovskites. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20843-20850	13	118
16	Bifacial Perovskite Solar Cells Featuring Semitransparent Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32635-32642	9.5	34

15	NbSe interlayers decrease interfacial recombination in BiI ₃ -based hybrid solar cells. <i>FlatChem</i> , 2017 , 5, 18-24	5.1	9
14	Modified Separator Performing Dual Physical/Chemical Roles to Inhibit Polysulfide Shuttle Resulting in Ultrastable Li-S Batteries. <i>ACS Nano</i> , 2017 , 11, 12436-12445	16.7	68
13	Synergistic improvements in stability and performance of lead iodide perovskite solar cells incorporating salt additives. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1591-1597	13	158
12	High photosensitivity and broad spectral response of multi-layered germanium sulfide transistors. <i>Nanoscale</i> , 2016 , 8, 2284-92	7.7	95
11	Bifunctional separator as a polysulfide mediator for highly stable LiS batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9661-9669	13	67
10	Enhance the light-harvesting capability of the ITO-free inverted small molecule solar cell by ZnO nanorods. <i>Optics Express</i> , 2016 , 24, 17910-5	3.3	8
9	Preparation of metal halide perovskite solar cells through a liquid droplet assisted method. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9257-9263	13	45
8	Planar Heterojunction Perovskite Solar Cells Incorporating Metal-Organic Framework Nanocrystals. <i>Advanced Materials</i> , 2015 , 27, 7229-35	24	105
7	Using an airbrush pen for layer-by-layer growth of continuous perovskite thin films for hybrid solar cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2359-66	9.5	76
6	Solution-processable bismuth iodide nanosheets as hole transport layers for organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 121, 35-41	6.4	50
5	Influence of In doping on the thermoelectric properties of an AgSbTe ₂ compound with enhanced figure of merit. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2839	13	20
4	Controlled mechanical cleavage of bulk niobium diselenide to nanoscaled sheet, rod, and particle structures for Pt-free dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11382-11390	13	37
3	A dual-functional additive improves the performance of molecular bulk heterojunction photovoltaic cells. <i>RSC Advances</i> , 2014 , 4, 9401	3.7	18
2	A high performance electrochemical sensor for acetaminophen based on a rGO@PEDOT nanotube composite modified electrode. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7229-7237	13	82
1	High electrocatalytic performance of platinum and manganese dioxide nanoparticle decorated reduced graphene oxide sheets for methanol electro-oxidation. <i>RSC Advances</i> , 2014 , 4, 41387-41397	3.7	31