Karunakara Moorthy Boopathi

List of Publications by Citations

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	Synergistic improvements in stability and performance of lead iodide perovskite solar cells incorporating salt additives. *Journal of Materials Chemistry A*, **2016**, 4, 1591-1597	13	158
31	Solution-processable antimony-based light-absorbing materials beyond lead halide perovskites. *Journal of Materials Chemistry A*, **2017**, 5, 20843-20850	13	118
30	Planar Heterojunction Perovskite Solar Cells Incorporating Metal-Organic Framework Nanocrystals. *Advanced Materials*, **2015**, 27, 7229-35	24	105
29	High photosensitivity and broad spectral response of multi-layered germanium sulfide transistors. *Nanoscale*, **2016**, 8, 2284-92	7.7	95
28	Photovoltaic Performance of Vapor-Assisted Solution-Processed Layer Polymorph of CsSbI. *ACS Applied Materials & Interfaces*, **2018**, 10, 2566-2573	9.5	84
27	A high performance electrochemical sensor for acetaminophen based on a rGO-PEDOT nanotube composite modified electrode. *Journal of Materials Chemistry A*, **2014**, 2, 7229-7237	13	82
26	Using an airbrush pen for layer-by-layer growth of continuous perovskite thin films for hybrid solar cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 2359-66	9.5	76
25	Modified Separator Performing Dual Physical/Chemical Roles to Inhibit Polysulfide Shuttle Resulting in Ultrastable Li-S Batteries. *ACS Nano*, **2017**, 11, 12436-12445	16.7	68
24	Bifunctional separator as a polysulfide mediator for highly stable Li-S batteries. *Journal of Materials Chemistry A*, **2016**, 4, 9661-9669	13	67
23	Solution-processable bismuth iodide nanosheets as hole transport layers for organic solar cells. *Solar Energy Materials and Solar Cells*, **2014**, 121, 35-41	6.4	50
22	Preparation of metal halide perovskite solar cells through a liquid droplet assisted method. *Journal of Materials Chemistry A*, **2015**, 3, 9257-9263	13	45
21	Lead-Free Antimony-Based Light-Emitting Diodes through the Vapor-Anion-Exchange Method. *ACS Applied Materials & Interfaces*, **2019**, 11, 35088-35094	9.5	42
20	Controlled mechanical cleavage of bulk niobium diselenide to nanoscaled sheet, rod, and particle structures for Pt-free dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2014**, 2, 11382-11390	13	37
19	Role of a hydrophobic scaffold in controlling the crystallization of methylammonium antimony iodide for efficient lead-free perovskite solar cells. *Nano Energy*, **2018**, 45, 330-336	17.1	36
18	Bifacial Perovskite Solar Cells Featuring Semitransparent Electrodes. *ACS Applied Materials & Interfaces*, **2017**, 9, 32635-32642	9.5	34
17	High electrocatalytic performance of platinum and manganese dioxide nanoparticle decorated reduced graphene oxide sheets for methanol electro-oxidation. *RSC Advances*, **2014**, 4, 41387-41397	3.7	31
16	A novel ball milling technique for room temperature processing of TiO2 nanoparticles employed as the electron transport layer in perovskite solar cells and modules. *Journal of Materials Chemistry A*, **2018**, 6, 7114-7122	13	26

15	A lithium passivated MoO nanobelt decorated polypropylene separator for fast-charging long-life Li-S batteries. *Nanoscale*, **2019**, 11, 2892-2900	7.7	24
14	Layered perovskite materials: key solutions for highly efficient and stable perovskite solar cells. *Reports on Progress in Physics*, **2020**, 83, 086502	14.4	23
13	Top Illuminated Hysteresis-Free Perovskite Solar Cells Incorporating Microcavity Structures on Metal Electrodes: A Combined Experimental and Theoretical Approach. *ACS Applied Materials & Interfaces*, **2018**, 10, 17973-17984	9.5	23
12	Permanent Lattice Compression of Lead-Halide Perovskite for Persistently Enhanced Optoelectronic Properties. *ACS Energy Letters*, **2020**, 5, 642-649	20.1	21
11	Influence of In doping on the thermoelectric properties of an AgSbTe2 compound with enhanced figure of merit. *Journal of Materials Chemistry A*, **2014**, 2, 2839	13	20
10	Whispering Gallery Mode Lasing from Self-Assembled Hexagonal Perovskite Single Crystals and Porous Thin Films Decorated by Dielectric Spherical Resonators. *ACS Photonics*, **2017**, 4, 146-155	6.3	18
9	A dual-functional additive improves the performance of molecular bulk heterojunction photovoltaic cells. *RSC Advances*, **2014**, 4, 9401	3.7	18
8	Bilayer polymer solar cells prepared with transfer printing of active layers from controlled swelling/de-swelling of PDMS. *Nano Energy*, **2019**, 63, 103826	17.1	16
7	UV- and NIR-Protective Semitransparent Smart Windows Based on Metal Halide Solar Cells. *ACS Applied Energy Materials*, **2018**, 1, 632-637	6.1	15
6	Mitigating Metal Dendrite Formation in Lithium-Sulfur Batteries via Morphology-Tunable Graphene Oxide Interfaces. *ACS Applied Materials & Interfaces*, **2019**, 11, 2060-2070	9.5	12
5	Synthesis of fluorinated benzotriazole (BTZ)- and benzodithiophene (BDT)-based low-bandgap conjugated polymers for solar cell applications. *Dyes and Pigments*, **2017**, 139, 349-360	4.6	11
4	NbSe interlayers decrease interfacial recombination in BiI3-based hybrid solar cells. *FlatChem*, **2017** , 5, 18-24	5.1	9
3	Enhance the light-harvesting capability of the ITO-free inverted small molecule solar cell by ZnO nanorods. *Optics Express*, **2016**, 24, 17910-5	3.3	8
2	Mixed Dimethylammonium/Methylammonium Lead Halide Perovskite Single Crystals for Improved Structural Stability and Enhanced Photodetection. *Advanced Materials*, **2021**, e2106160	24	6
1	An Insight into the Electrochemical Activity of Al-doped V2O3. *Journal of the Electrochemical Society*, **2020**, 167, 100514	3.9	5