

Rajiv Giridharagopal

List of Publications by Year in descending order

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28
papers

1,266
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430874

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2017
citing authors

#	ARTICLE	IF	CITATIONS
1	Sn ⁴⁺ precursor enables 12.4% efficient kesterite solar cell from DMSO solution with open circuit voltage deficit below 0.30 V. <i>Science China Materials</i> , 2021, 64, 52-60.	6.3	85
2	Scanning Kelvin Probe Microscopy Reveals That Ion Motion Varies with Dimensionality in 2D Halide Perovskites. <i>ACS Energy Letters</i> , 2021, 6, 100-108.	17.4	23
3	Extraction of Instantaneous Frequencies and Amplitudes in Nonstationary Time-Series Data. <i>IEEE Access</i> , 2021, 9, 83453-83466.	4.2	5
4	Imaging Graphene Moiré Superlattices via Scanning Kelvin Probe Microscopy. <i>Nano Letters</i> , 2021, 21, 3280-3286.	9.1	17
5	Bismuth Doping Alters Structural Phase Transitions in Methylammonium Lead Tribromide Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2749-2755.	4.6	14
6	Ag Incorporation with Controlled Grain Growth Enables 12.5% Efficient Kesterite Solar Cell with Open Circuit Voltage Reached 64.2% Shockley-Queisser Limit. <i>Advanced Functional Materials</i> , 2021, 31, 2101927.	14.9	110
7	Nanowire Architectures Improve Ion Uptake Kinetics in Conjugated Polymer Electrochemical Transistors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 34616-34624.	8.0	16
8	Highly efficient copper-rich chalcopyrite solar cells from DMF molecular solution. <i>Nano Energy</i> , 2020, 69, 104438.	16.0	57
9	Time-Resolved Electrical Scanning Probe Microscopy of Layered Perovskites Reveals Spatial Variations in Photoinduced Ionic and Electronic Carrier Motion. <i>ACS Nano</i> , 2019, 13, 2812-2821.	14.6	38
10	Noncontact Imaging of Ion Dynamics in Polymer Electrolytes with Time-Resolved Electrostatic Force Microscopy. <i>ACS Nano</i> , 2019, 13, 536-543.	14.6	14
11	Orientation of Ferroelectric Domains and Disappearance upon Heating Methylammonium Lead Triiodide Perovskite from Tetragonal to Cubic Phase. <i>ACS Applied Energy Materials</i> , 2018, 1, 1534-1539.	5.1	49
12	Perovskite-Polymer Blends Influencing Microstructures, Nonradiative Recombination Pathways, and Photovoltaic Performance of Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42542-42551.	8.0	50
13	Direct Observation and Quantitative Analysis of Mobile Frenkel Defects in Metal Halide Perovskites Using Scanning Kelvin Probe Microscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12633-12639.	3.1	58
14	Identifying Nanoscale Structure-Function Relationships Using Multimodal Atomic Force Microscopy, Dimensionality Reduction, and Regression Techniques. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3307-3314.	4.6	13
15	Anion-Dependent Doping and Charge Transport in Organic Electrochemical Transistors. <i>Chemistry of Materials</i> , 2018, 30, 5380-5389.	6.7	125
16	Interplay of Mobile Ions and Injected Carriers Creates Recombination Centers in Metal Halide Perovskites under Bias. <i>ACS Energy Letters</i> , 2018, 3, 1279-1286.	17.4	106
17	Fast time-resolved electrostatic force microscopy: Achieving sub-cycle time resolution. <i>Review of Scientific Instruments</i> , 2016, 87, 053702.	1.3	42
18	Functional Scanning Probe Imaging of Nanostructured Solar Energy Materials. <i>Accounts of Chemical Research</i> , 2016, 49, 1769-1776.	15.6	43

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19	Cantilever Ringdown Dissipation Imaging for the Study of Loss Processes in Polymer/Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12369-12376.	3.1	4
20	Quantitative sub-surface and non-contact imaging using scanning microwave microscopy. <i>Nanotechnology</i> , 2015, 26, 135701.	2.6	47
21	Submicrosecond Time Resolution Atomic Force Microscopy for Probing Nanoscale Dynamics. <i>Nano Letters</i> , 2012, 12, 893-898.	9.1	82
22	Controlling Vertical Morphology within the Active Layer of Organic Photovoltaics Using Poly(3-hexylthiophene) Nanowires and Phenyl-C61-butyric Acid Methyl Ester. <i>ACS Nano</i> , 2011, 5, 3132-3140.	14.6	61
23	Characterizing Morphology in Bulk Heterojunction Organic Photovoltaic Systems. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1160-1169.	4.6	127
24	Interfacial charge transfer in nanoscale polymer transistors. <i>Nano Research</i> , 2008, 1, 341-350.	10.4	5
25	Substrate-Dependent Properties of Polydiacetylene Nanowires on Graphite and MoS ₂ . <i>ACS Nano</i> , 2008, 2, 1571-1580.	14.6	42
26	STM-Induced Desorption of Polydiacetylene Nanowires and Reordering via Molecular Cascades. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6161-6166.	3.1	25
27	Inverse gold photonic crystals and conjugated polymer coated opals for functional materials. <i>Physica B: Condensed Matter</i> , 2003, 338, 165-170.	2.7	6
28	Advances in Multimodal Scanning Probe Microscopy at the Nanoscale. , 0, , .		0