

Xiaoqing Chen

List of Publications by Year in descending order

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41
papers

1,483
citations

567281

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315739

38
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all docs

41
docs citations

41
times ranked

2808
citing authors

#	ARTICLE	IF	CITATIONS
1	Small-molecule solar cells with efficiency over 9%. <i>Nature Photonics</i> , 2015, 9, 35-41.	31.4	769
2	Efficient and Balanced Charge Transport Revealed in Planar Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4471-4475.	8.0	131
3	Enhanced Performance of a CVD MoS ₂ Photodetector by Chemical in Situ n-Type Doping. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11636-11644.	8.0	82
4	Effect of Light and Voltage on Electrochemical Impedance Spectroscopy of Perovskite Solar Cells: An Empirical Approach Based on Modified Randles Circuit. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3968-3978.	3.1	48
5	High-Performance Photodiode Based on Atomically Thin WSe ₂ /MoS ₂ Nanoscroll Integration. <i>Small</i> , 2019, 15, e1901544.	10.0	44
6	Toward Efficiency Limits of Crystalline Silicon Solar Cells: Recent Progress in High-Efficiency Silicon Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	41
7	Electrorheological fluid-actuated microfluidic pump. <i>Applied Physics Letters</i> , 2006, 89, 083505.	3.3	39
8	Self-powered and fast photodetector based on graphene/MoSe ₂ /Au heterojunction. <i>Superlattices and Microstructures</i> , 2019, 130, 87-92.	3.1	34
9	Dual Optimization of Bulk and Surface via Guanidine Halide for Efficient and Stable 2D/3D Hybrid Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	30
10	Carrier mobility tuning of MoS ₂ by strain engineering in CVD growth process. <i>Nano Research</i> , 2021, 14, 2314.	10.4	27
11	Charge Generation via Relaxed Charge-Transfer States in Organic Photovoltaics by an Energy-Disorder-Driven Entropy Gain. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12640-12646.	3.1	24
12	Strain Effect Enhanced Ultrasensitive MoS ₂ Nanoscroll Avalanche Photodetector. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4490-4497.	4.6	23
13	Study on the basic capacitance-voltage characteristics of organic molecular semiconductors. <i>Organic Electronics</i> , 2015, 21, 73-77.	2.6	21
14	Transient Extraction of Holes and Electrons Separately Unveils the Transport Dynamics in Organic Photovoltaics. <i>Advanced Electronic Materials</i> , 2016, 2, 1500333.	5.1	17
15	Photocarrier dynamics in perovskite-based solar cells revealed by intensity-modulated photovoltage spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17918-17926.	2.8	16
16	Correlating Molecular Structures with Transport Dynamics in High-Efficiency Small-Molecule Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13137-13141.	8.0	15
17	Two-peak capacitance-voltage behavior in devices based on electron transport materials. <i>Organic Electronics</i> , 2016, 28, 239-243.	2.6	15
18	Rapid degradation behavior of encapsulated perovskite solar cells under light, bias voltage or heat fields. <i>Nanoscale Advances</i> , 2021, 3, 6128-6137.	4.6	15

#	ARTICLE	IF	CITATIONS
19	High performance sub-bandgap photodetection via internal photoemission based on ideal metal/2D-material van der Waals Schottky interface. <i>Nanoscale</i> , 2021, 13, 16448-16456.	5.6	14
20	Buffer-enhanced electron injection in organic light-emitting devices with copper cathode. <i>Organic Electronics</i> , 2013, 14, 511-515.	2.6	11
21	A tunable floating-base bipolar transistor based on a 2D material homojunction realized using a solid ionic dielectric material. <i>Nanoscale</i> , 2019, 11, 22531-22538.	5.6	7
22	High-bandwidth, high-sampling-rate, low-noise, two-probe transient photovoltage measuring system. <i>Review of Scientific Instruments</i> , 2015, 86, 013905.	1.3	6
23	Improved efficiency and stability of flexible perovskite solar cells by a new spacer cation additive. <i>RSC Advances</i> , 2021, 11, 33637-33645.	3.6	6
24	TOP-electrode-eliminated organic bi-stable devices and their two switching modes in different atmospheres. <i>Organic Electronics</i> , 2015, 22, 127-131.	2.6	5
25	Light-Rewritable Logic Devices Based on Van der Waals Heterostructures. <i>Advanced Electronic Materials</i> , 2022, 8, 2100708.	5.1	5
26	Toward Efficiency Limits of Crystalline Silicon Solar Cells: Recent Progress in High-Efficiency Silicon Heterojunction Solar Cells (Adv. Energy Mater. 23/2022). <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	5
27	Coulomb effect induced intrinsic degradation in OLED. <i>Organic Electronics</i> , 2019, 65, 370-374.	2.6	4
28	Modification of graphene photodetector by TiO ₂ prepared by oxygen plasma. <i>Journal of Materials Science</i> , 2021, 56, 10938-10946.	3.7	4
29	Transient photovoltage study on the dynamics of excitons and carriers in tris-(8-hydroxyquinolino)aluminum. <i>Journal of Applied Physics</i> , 2014, 116, 153704.	2.5	3
30	Nanoscrolls: High-Performance Photodiode Based on Atomically Thin WSe ₂ /MoS ₂ Nanoscroll Integration (<i>Small</i> 30/2019). <i>Small</i> , 2019, 15, 1970160.	10.0	3
31	The impact of Ga and S concentration and gradient in Cu(In,Ga)(Se,S) ₂ solar cells. <i>Optical Materials</i> , 2022, 126, 112143.	3.6	3
32	Photoinduced charge injection in the metal/organic interface studied by transient photovoltage measurements with bias. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 2012-2015.	5.1	2
33	Abnormal Temperature-Dependent Electron Transport in Hole Transport Material N,N'-Diphenyl-N,N'-bis(3-methylphenyl)-[1,1'-biphenyl]-4,4'-diamine (TPD). <i>Journal of Physical Chemistry C</i> , 2013, 117, 9143-9147.		2
34	Separation of Four Compounds from Forsythia suspensa by Counter-Current Chromatography with Stepwise Elution. <i>Separation Science and Technology</i> , 2014, 49, 2098-2104.	2.5	2
35	Tunable Exciton Dissociation at the Organic/Metal Electrode Interface. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7039-7046.	3.1	2
36	Transition metal dichalcogenides thyristor realized by solid ionic conductor gate induced doping. <i>Applied Physics Letters</i> , 2020, 117, 053102.	3.3	2

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37	Investigation of grouting diffusion in a single rock fracture considering the influences of obstructions. Canadian Geotechnical Journal, 2022, 59, 1114-1129.	2.8	2
38	Insertion of parylene-N films in electron transport layer: An effective approach for efficiency improvement of organic light emitting diodes. Journal of Applied Physics, 2012, 112, 104505.	2.5	1
39	Field-dependent, organics assistant filamentary mechanism in both vertical and planar organic memories. Organic Electronics, 2018, 53, 83-87.	2.6	1
40	Impedance Spectroscopy with Variable Voltages and Illuminations to Reveal Recombination Routes of Free Carriers in Perovskite Solar Cells. , 2019, , .		1
41	Photoelectric properties of quasi one-dimensional layered KP15. Materials Letters, 2020, 272, 127826.	2.6	1