

Xiao Luo

List of Publications by Year in descending order

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60
papers

2,055
citations

304368

22
h-index

243296

44
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all docs

60
docs citations

60
times ranked

2352
citing authors

#	ARTICLE	IF	CITATIONS
1	Triplet Energy Transfer from CsPbBr ₃ Nanocrystals Enabled by Quantum Confinement. <i>Journal of the American Chemical Society</i> , 2019, 141, 4186-4190.	6.6	169
2	Quantum-Cutting Luminescent Solar Concentrators Using Ytterbium-Doped Perovskite Nanocrystals. <i>Nano Letters</i> , 2019, 19, 338-341.	4.5	153
3	Unraveling the Interfacial Charge Migration Pathway at the Atomic Level in a Highly Efficient Z-scheme Photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11329-11334.	7.2	152
4	Mechanisms of triplet energy transfer across the inorganic nanocrystal/organic molecule interface. <i>Nature Communications</i> , 2020, 11, 28.	5.8	127
5	Visible-to-Ultraviolet Upconversion Efficiency above 10% Sensitized by Quantum-Confined Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5036-5040.	2.1	94
6	Solvation effect promoted formation of p-n junction between WO ₃ and FeOOH: A high performance photoanode for water oxidation. <i>Journal of Catalysis</i> , 2016, 333, 200-206.	3.1	86
7	Triplet Energy Transfer from Perovskite Nanocrystals Mediated by Electron Transfer. <i>Journal of the American Chemical Society</i> , 2020, 142, 11270-11278.	6.6	82
8	Triplet Sensitization by Self-Trapped Excitons of Nontoxic CuInS ₂ Nanocrystals for Efficient Photon Upconversion. <i>Journal of the American Chemical Society</i> , 2019, 141, 13033-13037.	6.6	79
9	On the absence of a phonon bottleneck in strongly confined CsPbBr ₃ perovskite nanocrystals. <i>Chemical Science</i> , 2019, 10, 5983-5989.	3.7	71
10	Biexciton Auger recombination in mono-dispersed, quantum-confined CsPbBr ₃ perovskite nanocrystals obeys universal volume-scaling. <i>Nano Research</i> , 2019, 12, 619-623.	5.8	63
11	Size- and Halide-Dependent Auger Recombination in Lead Halide Perovskite Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14292-14295.	7.2	63
12	Visible-Light-Driven Sensitization of Naphthalene Triplets Using Quantum-Confined CsPbBr ₃ Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1457-1463.	2.1	62
13	Toward facile broadband high photoresponse of fullerene based phototransistor from the ultraviolet to the near-infrared region. <i>Carbon</i> , 2016, 96, 685-694.	5.4	56
14	Design and fabrication of a CdS QDs/Bi ₂ WO ₆ monolayer S-scheme heterojunction configuration for highly efficient photocatalytic degradation of trace ethylene in air. <i>Chemical Engineering Journal</i> , 2022, 429, 132241.	6.6	56
15	Size- and Composition-Dependent Exciton Spin Relaxation in Lead Halide Perovskite Quantum Dots. <i>ACS Energy Letters</i> , 2020, 5, 1701-1708.	8.8	47
16	Ultrasensitive flexible broadband photodetectors achieving pA scale dark current. <i>Npj Flexible Electronics</i> , 2017, 1, .	5.1	41
17	A Tandem OD/2D/2D NbS ₂ Quantum Dot/NbO ₅ Nanosheet/g-C ₃ N ₄ Flake System with Spatial Charge Transfer Cascades for Boosting Photocatalytic Hydrogen Evolution. <i>Small</i> , 2020, 16, e2003302.	5.2	40
18	Synthesis and Spectroscopy of Monodispersed, Quantum-Confined FAPbBr ₃ Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2020, 32, 549-556.	3.2	39

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19	Picosecond multi-hole transfer and microsecond charge-separated states at the perovskite nanocrystal/tetracene interface. <i>Chemical Science</i> , 2019, 10, 2459-2464.	3.7	33
20	Sensitized Molecular Triplet and Triplet Excimer Emission in Two-Dimensional Hybrid Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2247-2255.	2.1	33
21	Shallow distance-dependent triplet energy migration mediated by endothermic charge-transfer. <i>Nature Communications</i> , 2021, 12, 1532.	5.8	33
22	Ultrasensitivity broadband photodetectors based on perovskite: Research on film crystallization and electrode optimization. <i>Organic Electronics</i> , 2017, 46, 35-43.	1.4	23
23	2D/2D atomic double-layer WS ₂ /Nb ₂ O ₅ shell/core nanosheets with ultrafast interfacial charge transfer for boosting photocatalytic H ₂ evolution. <i>Chinese Chemical Letters</i> , 2021, 32, 3128-3132.	4.8	23
24	Charge-transport interfacial modification enhanced ultraviolet (UV)/near-UV phototransistor with high sensitivity and fast response speed. <i>Synthetic Metals</i> , 2015, 210, 230-235.	2.1	22
25	Insight into trap state dynamics for exploiting current multiplication in organic photodetectors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016, 10, 485-492.	1.2	22
26	Unraveling the Interfacial Charge Migration Pathway at the Atomic Level in a Highly Efficient ZnS-Scheme Photocatalyst. <i>Angewandte Chemie</i> , 2019, 131, 11451-11456.	1.6	22
27	Strong Spin-Selective Optical Stark Effect in Lead Halide Perovskite Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3594-3600.	2.1	21
28	Organic near-infrared upconversion devices: Design principles and operation mechanisms. <i>Organic Electronics</i> , 2016, 31, 258-265.	1.4	20
29	Engineering Sensitized Photon Upconversion Efficiency via Nanocrystal Wavefunction and Molecular Geometry. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17726-17731.	7.2	20
30	Substrate temperature dependent performance of near infrared photoresponsive organic field effect transistors based on lead phthalocyanine. <i>Synthetic Metals</i> , 2015, 205, 190-194.	2.1	19
31	High performance photoresponsive field-effect transistors based on MoS ₂ /pentacene heterojunction. <i>Organic Electronics</i> , 2017, 51, 142-148.	1.4	19
32	Toward High Uniformity of Photoresponse Broadband Hybrid Organic-Inorganic Photodiode Based on PVP-Modified Perovskite. <i>Advanced Optical Materials</i> , 2018, 6, 1700509.	3.6	19
33	High-performance organic broadband photomemory transistors exhibiting remarkable UV-NIR response. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13108-13117.	1.3	18
34	Broad spectral response photosensitive organic field-effect transistors realized by the hybrid planar-bulk heterojunction composed of three molecules with complementary optical absorption. <i>Organic Electronics</i> , 2017, 43, 27-32.	1.4	17
35	A comprehensive investigation of organic active layer structures toward high performance near-infrared phototransistors. <i>Synthetic Metals</i> , 2018, 240, 44-51.	2.1	17
36	Remarkably enhanced red-NIR broad spectral absorption via gold nanoparticles: applications for organic photosensitive diodes. <i>Nanoscale</i> , 2015, 7, 14422-14433.	2.8	16

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37	Toward high performance broad spectral hybrid organic-inorganic photodetectors based on multiple component organic bulk heterojunctions. <i>Journal of Materials Chemistry C</i> , 2016, 4, 815-822.	2.7	15
38	Achieving Weak Light Response with Plasmonic Nanogold-Decorated Organic Phototransistors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15352-15356.	4.0	14
39	Facile Nanogold-Perovskite Enabling Ultrasensitive Flexible Broadband Photodetector with pW Scale Detection Limit. <i>Advanced Optical Materials</i> , 2018, 6, 1800996.	3.6	14
40	Enhanced performance of PbPc photosensitive organic field effect transistors by inserting different-thickness pentacene inducing layers. <i>Organic Electronics</i> , 2015, 26, 186-190.	1.4	13
41	Tuning Intermediate-Band Cu ₃ VS ₄ Nanocrystals from Plasmonic-like to Excitonic via Shell-Coating. <i>Chemistry of Materials</i> , 2020, 32, 224-233.	3.2	13
42	Airstable near-infrared sensitive organic field-effect transistors utilizing erbium phthalocyanine as photosensitive layer. <i>Synthetic Metals</i> , 2016, 218, 27-33.	2.1	10
43	Near Infrared Sensitive Organic Photodiode Utilizing Exciplex Absorption in NdPc ₂ /C ₆₀ Heterojunction. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 2043-2046.	1.3	9
44	Discovery of new small molecule inhibitors targeting isocitrate dehydrogenase 1 (IDH1) with blood-brain barrier penetration. <i>European Journal of Medicinal Chemistry</i> , 2019, 183, 111694.	2.6	9
45	Ultrahigh near infrared photoresponsive organic field-effect transistors with lead phthalocyanine/C ₆₀ heterojunction on poly(vinyl alcohol) gate dielectric. <i>Nanotechnology</i> , 2015, 26, 185501.	1.3	8
46	Position-dependent performance of copper phthalocyanine based field-effect transistors by gold nanoparticles modification. <i>Nanotechnology</i> , 2015, 26, 035201.	1.3	8
47	Red light sensitive heterojunction organic field-effect transistors based on neodymium phthalocyanine as photosensitive layer. <i>Thin Solid Films</i> , 2015, 589, 692-696.	0.8	8
48	Operational dynamics and architecture dependence of double-gate OFETs with balanced top and bottom channel characteristics. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7336-7344.	2.7	8
49	Size- and Halide-Dependent Auger Recombination in Lead Halide Perovskite Nanocrystals. <i>Angewandte Chemie</i> , 2020, 132, 14398-14401.	1.6	8
50	Spin-enabled photochemistry using nanocrystal-molecule hybrids. <i>CheM</i> , 2022, , .	5.8	8
51	Correlating optimal electrode buffer layer thickness with the surface roughness of the active layer in organic phototransistors. <i>Synthetic Metals</i> , 2014, 193, 35-40.	2.1	7
52	Enhanced performance of isotype planar heterojunction photoresponsive organic field-effect transistors by using Ag source-drain electrodes. <i>Europhysics Letters</i> , 2015, 110, 17006.	0.7	6
53	Toward Ultrahigh Red Light Responsive Organic FETs Utilizing Neodymium Phthalocyanine as Light Sensitive Material. <i>IEEE Transactions on Electron Devices</i> , 2016, 63, 452-458.	1.6	6
54	Lighting Up AIEgen Emission in Solution by Grafting onto Colloidal Nanocrystal Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6334-6338.	2.1	5

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55	Triplet energy transfer between inorganic nanocrystals and organic molecules. Journal of Photochemistry and Photobiology, 2022, 11, 100128.	1.1	5
56	A striking performance improvement of fullerene n-channel field-effect transistors via synergistic interfacial modifications. Journal Physics D: Applied Physics, 2015, 48, 405105.	1.3	2
57	Notably Improved Red Photoresponse of Organic Diode Employing Gold Nanoparticles Plasmonic Absorption. Journal of Nanoscience and Nanotechnology, 2016, 16, 5707-5713.	0.9	1
58	Gold nanoparticles-decorated N,N'-dioctyl-3,4,9,10-perylene tetracarboxylic diimide active layer towards remarkably enhanced visible-light photoresponse of an n-type organic phototransistor. Thin Solid Films, 2021, 718, 138478.	0.8	1
59	Effects of source/drain electrode contact length on the photoresponsive properties of organic field-effect transistors. Optical Materials Express, 2018, 8, 901.	1.6	0
60	Engineering Sensitized Photon Upconversion Efficiency via Nanocrystal Wavefunction and Molecular Geometry. Angewandte Chemie, 2020, 132, 17879-17884.	1.6	0