

Yan-Xia Cui

List of Publications by Year in descending order

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105
papers

4,242
citations

218677

26
h-index

110387

64
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105
all docs

105
docs citations

105
times ranked

4585
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrabroadband Light Absorption by a Sawtooth Anisotropic Metamaterial Slab. <i>Nano Letters</i> , 2012, 12, 1443-1447.	9.1	864
2	Ultra-broadband microwave metamaterial absorber. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	837
3	Plasmonic and metamaterial structures as electromagnetic absorbers. <i>Laser and Photonics Reviews</i> , 2014, 8, 495-520.	8.7	489
4	A thin film broadband absorber based on multi-sized nanoantennas. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	250
5	Prominent Efficiency Enhancement in Perovskite Solar Cells Employing Silica-Coated Gold Nanorods. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6996-7004.	3.1	87
6	Enhancing extraordinary transmission of light through a metallic nanoslit with a nanocavity antenna. <i>Optics Letters</i> , 2009, 34, 16.	3.3	69
7	Status and Outlook of Metal-Insulator-Metal Photodetectors. <i>Laser and Photonics Reviews</i> , 2021, 15, .	8.7	67
8	Tungsten based anisotropic metamaterial as an ultra-broadband absorber. <i>Optical Materials Express</i> , 2017, 7, 606.	3.0	65
9	High efficiency planar Sn-Pb binary perovskite solar cells: controlled growth of large grains via a one-step solution fabrication process. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2360-2367.	5.5	60
10	Dual-Layer Nanostructured Flexible Thin-Film Amorphous Silicon Solar Cells with Enhanced Light Harvesting and Photoelectric Conversion Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10929-10936.	8.0	57
11	Stability of Perovskite Light Sources: Status and Challenges. <i>Advanced Optical Materials</i> , 2020, 8, 1902012.	7.3	54
12	Record-Low-Threshold Lasers Based on Atomically Smooth Triangular Nanoplatelet Perovskite. <i>Advanced Functional Materials</i> , 2019, 29, 1805553.	14.9	52
13	Improved performance of organic solar cells by incorporating silica-coated silver nanoparticles in the buffer layer. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1082-1090.	5.5	50
14	Efficient multiband absorber based on one-dimensional periodic metal-dielectric photonic crystal with a reflective substrate. <i>Optics Letters</i> , 2014, 39, 331.	3.3	45
15	Research Progress in Organic Photomultiplication Photodetectors. <i>Nanomaterials</i> , 2018, 8, 713.	4.1	44
16	Broad-band three dimensional nanocave ZnO thin film photodetectors enhanced by Au surface plasmon resonance. <i>Nanoscale</i> , 2016, 8, 8924-8930.	5.6	43
17	Plasmonic broadband absorber by stacking multiple metallic nanoparticle layers. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	39
18	Recent advances in black phosphorus/carbon hybrid composites: from improved stability to applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4647-4676.	10.3	39

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19	Fluorinated dopant-free hole-transporting material for efficient and stable perovskite solar cells with carbon cathode. <i>Journal of Power Sources</i> , 2018, 401, 29-36.	7.8	38
20	Visibly transparent organic photovoltaic with improved transparency and absorption based on tandem photonic crystal for greenhouse application. <i>Applied Optics</i> , 2015, 54, 10232.	2.1	34
21	Efficiency enhancement in organic solar cells by incorporating silica-coated gold nanorods at the buffer/active interface. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9859-9868.	5.5	34
22	Single-crystalline lead halide perovskite wafers for high performance photodetectors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8357-8363.	5.5	33
23	UV-driven overall water splitting using unsupported gold nanoparticles as photocatalysts. <i>Chemical Communications</i> , 2018, 54, 1845-1848.	4.1	32
24	In situ growth of a 2D/3D mixed perovskite interface layer by seed-mediated and solvent-assisted Ostwald ripening for stable and efficient photovoltaics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2425-2435.	5.5	29
25	High Performance Ultrathin MoO ₃ /Ag Transparent Electrode and Its Application in Semitransparent Organic Solar Cells. <i>Nanomaterials</i> , 2018, 8, 473.	4.1	28
26	Enhanced performance of perovskite solar cells by the incorporation of the luminescent small molecule DBP: perovskite absorption spectrum modification and interface engineering. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5686-5694.	5.5	28
27	High-efficiency, broad-band and wide-angle optical absorption in ultra-thin organic photovoltaic devices. <i>Optics Express</i> , 2014, 22, A376.	3.4	27
28	Optical nano-antennas and metamaterials. <i>Materials Today</i> , 2009, 12, 16-24.	14.2	26
29	Metasurfaces Composed of Plasmonic Molecules: Hybridization Between Parallel and Orthogonal Surface Lattice Resonances. <i>Advanced Optical Materials</i> , 2020, 8, 1901109.	7.3	26
30	Broadband light absorption enhancement in moth-eye nanostructured organic solar cells. <i>AIP Advances</i> , 2015, 5, 057164.	1.3	25
31	Fluorinated triphenylamine-based dopant-free hole-transporting material for high-performance inverted perovskite solar cells. <i>Chemical Engineering Journal</i> , 2020, 402, 125923.	12.7	25
32	Efficient Light Trapping in Organic Solar Cell Using a Short-Pitched Hexagonal Array of Metallic Nanocylinders. <i>IEEE Photonics Journal</i> , 2016, 8, 1-9.	2.0	23
33	Charge transporting materials for perovskite solar cells. <i>Rare Metals</i> , 2021, 40, 2690-2711.	7.1	23
34	High detectivity photodetectors based on perovskite nanowires with suppressed surface defects. <i>Photonics Research</i> , 2020, 8, 1862.	7.0	23
35	Multiband plasmonic absorber based on transverse phase resonances. <i>Optics Express</i> , 2012, 20, 17552.	3.4	22
36	Flexible broadband plasmonic absorber on moth-eye substrate. <i>Materials Today Energy</i> , 2017, 5, 181-186.	4.7	22

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37	Double electron transport layers for efficient and stable organic-inorganic hybrid perovskite solar cells. <i>Organic Electronics</i> , 2019, 70, 292-299.	2.6	20
38	A theoretical re-examination of giant transmission of light through a metallic nano-slit surrounded with periodic grooves. <i>Optics Express</i> , 2009, 17, 13995.	3.4	19
39	Incorporating silver-SiO ₂ core-shell nanocubes for simultaneous broadband absorption and charge collection enhancements in organic solar cells. <i>Synthetic Metals</i> , 2016, 220, 612-620.	3.9	19
40	Broadband EQE enhancement in organic solar cells with multiple-shaped silver nanoparticles: Optical coupling and interfacial engineering. <i>Materials Today Energy</i> , 2017, 3, 84-91.	4.7	19
41	Plasmonic nanoprism enhanced quasi-2D Ruddlesden-Popper layered perovskite photodetectors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1110-1117.	5.5	19
42	Entire mirror-like perovskite films for high-performance perovskite solar cells: The role of polar anti-solvent sec-pentyl alcohol. <i>Organic Electronics</i> , 2018, 57, 133-139.	2.6	17
43	High performance flexible organic photomultiplication photodetector based on an ultra-thin silver film transparent electrode. <i>Nanotechnology</i> , 2020, 31, 314001.	2.6	17
44	Profiling Light Absorption Enhancement in Two-Dimensional Photonic-Structured Perovskite Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2017, 7, 1324-1328.	2.5	16
45	Unravelling the role of C60 derivatives as additives into active layers for achieving high-efficiency planar perovskite solar cells. <i>Carbon</i> , 2020, 167, 160-168.	10.3	16
46	Effect of photogenerated carrier distribution on performance enhancement of photomultiplication organic photodetectors. <i>Organic Electronics</i> , 2019, 68, 56-62.	2.6	15
47	Boosting Continuous-Wave Laser-Driven Nonlinear Photothermal White Light Generation by Nanoscale Porosity. <i>Advanced Materials</i> , 2022, 34, e2106368.	21.0	15
48	Boosting the efficiency of quasi two-dimensional perovskite solar cells via an interfacial layer of metallic nanoparticles. <i>Organic Electronics</i> , 2019, 74, 190-196.	2.6	14
49	Absorption Enhancement in Organic Solar Cells with a Built-In Short-Pitch Plasmonic Grating. <i>Plasmonics</i> , 2015, 10, 773-781.	3.4	13
50	Semitransparent inverted organic solar cell with improved absorption and reasonable transparency perception based on the nanopatterned MoO ₃ / Ag / MoO ₃ anode. <i>Journal of Nanophotonics</i> , 2015, 9, 093043.	1.0	13
51	Omnidirectional and broadband optical absorption enhancement in small molecule organic solar cells by a patterned MoO ₃ /Ag/MoO ₃ transparent anode. <i>Optics Communications</i> , 2015, 338, 226-232.	2.1	13
52	Efficient inverted perovskite solar cells with preferential orientation and suppressed defects of methylammonium lead iodide by introduction of phenothiazine as additive. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153717.	5.5	13
53	Sunlight-Activated Orange Persistent Luminescence from Bi-Doped SrBaZn ₂ Ga ₂ O ₇ for Warm-Color Optical Applications. <i>Inorganic Chemistry</i> , 2021, 60, 19233-19241.	4.0	13
54	Improved Efficiency of Organic Photovoltaic Cells by Incorporation of AuAg-Alloyed Nanoprisms. <i>IEEE Journal of Photovoltaics</i> , 2017, 7, 1036-1041.	2.5	12

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55	Controllable deposition of regular lead iodide nanoplatelets and their photoluminescence at room temperature. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 97, 130-135.	2.7	12
56	Interface Modification of a Perovskite/Hole Transport Layer with Tetraphenyldibenzoperiflanthene for Highly Efficient and Stable Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45073-45082.	8.0	12
57	Broadband and wide-angle light absorption of organic solar cells based on multiple-depths metal grating. <i>Optics Express</i> , 2019, 27, A596.	3.4	12
58	Nanocavity antenna array for enhancing extraordinary optical transmission of light through a metallic nanoslit. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 2131.	2.1	11
59	Exciting multiple plasmonic resonances by a double-layered metallic nanostructure. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, 2827.	2.1	11
60	Improving working lifetime and efficiency of phosphor doped organic light-emitting diodes. <i>Optics Express</i> , 2013, 21, 17020.	3.4	11
61	Omnidirectional and polarization-insensitive light absorption enhancement in an organic photovoltaic device using a one-dimensional nanograting. <i>Journal of Modern Optics</i> , 2014, 61, 1714-1722.	1.3	11
62	2D Perovskite Substrate-Assisted CsPb ₃ Film Growth for High-Efficiency Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 7417-7427.	8.0	10
63	Ultra-Thin Organic Solar Cells Incorporating Dielectric-Coated Comb Silver Nanogratings. <i>Plasmonics</i> , 2016, 11, 151-157.	3.4	9
64	Effective medium analysis of absorption enhancement in short-pitch metal grating incorporated organic solar cells. <i>Optics Express</i> , 2016, 24, A1408.	3.4	8
65	Formation of Large Grain and Compact CH ₃ NH ₃ Pb(I) \times Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 352 Td <i>Journal of Photovoltaics</i> , 2018, 8, 1017-1022.	2.5	8
66	Toward high-performance semitransparent perovskite solar cells: interfacial modification and charge extraction perspectives. <i>Materials Today Energy</i> , 2021, 21, 100833.	4.7	8
67	High efficiency perovskite solar cells with PTAA hole transport layer enabled by PMMA:F4-TCNQ buried interface layer. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9714-9722.	5.5	8
68	Improved light outcoupling of organic light-emitting diodes by randomly embossed nanostructure. <i>Synthetic Metals</i> , 2015, 203, 200-207.	3.9	7
69	Enhanced light out-coupling efficiency and reduced efficiency roll-off in phosphorescent OLEDs with a spontaneously distributed embossed structure formed by a spin-coating method. <i>RSC Advances</i> , 2017, 7, 43987-43993.	3.6	7
70	Enhanced Efficiency and Stability of Inverted Planar Perovskite Solar Cells With Piperazine as an Efficient Dopant Into PCBM. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 811-817.	2.5	7
71	Carrier lifetime exceeding 81 ns in single crystalline perovskite nanowires enable large on-off ratio photodetectors. <i>Organic Electronics</i> , 2020, 83, 105744.	2.6	7
72	Comparison of Nanohole-Type and Nanopillar-Type Patterned Metallic Electrodes Incorporated in Organic Solar Cells. <i>Nanoscale Research Letters</i> , 2017, 12, 538.	5.7	6

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73	Maxwell's demon-like nonreciprocity by non-Hermitian gyrotropic metasurfaces. <i>Physical Review Research</i> , 2021, 3, .	3.6	6
74	Application of quantum dots in perovskite solar cells. <i>Nanotechnology</i> , 2021, 32, 482003.	2.6	6
75	Interface modification of an electron transport layer using europium acetate for enhancing the performance of P3HT-based inorganic perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23818-23826.	2.8	6
76	Multifunction Sandwich Structure Based on Diffusible 2-Chloroethylamine for High-Efficiency and Stable Tin-Lead Mixed Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 118-129.	4.6	6
77	Improved performances of CuPc/C60-based solar cell by using randomly and irregularly embossed PEDOT:PSS as anode buffer layer. <i>Optics Communications</i> , 2015, 346, 188-193.	2.1	5
78	Reduced efficiency roll-off in phosphorescent OLEDs with a stack emitting layer facilitating triplet exciton diffusion. <i>RSC Advances</i> , 2015, 5, 89041-89046.	3.6	5
79	Transfer Printing of Perovskite Whispering Gallery Mode Laser Cavities by Thermal Release Tape. <i>Nanoscale Research Letters</i> , 2022, 17, 8.	5.7	5
80	Plasmon-Assisted Optical Curtains. <i>Plasmonics</i> , 2010, 5, 369-374.	3.4	4
81	A Conjugated Random Copolymer of Benzodithiophene-Difluorobenzene-Diketopyrrolopyrrole with Full Visible-Light Absorption for Bulk-Heterojunction Solar Cells. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 2119-2124.	2.2	4
82	Fine tuning of terpolymer properties by incorporating electron-accepting difluorobenzene and diketopyrrolopyrrole units. <i>Journal of Materials Science</i> , 2015, 50, 5363-5370.	3.7	4
83	Enhancing Hot-Electron Photodetection of a TiO ₂ /Au Schottky Junction by Employing a Hybrid Plasmonic Nanostructure. <i>Materials</i> , 2022, 15, 2737.	2.9	4
84	Passivation of degradation path enables high performance perovskite nanoplatelet lasers with high operational stability. <i>Photonics Research</i> , 2022, 10, 1440.	7.0	4
85	Optical Curtain Effect: Extraordinary Optical Transmission Enhanced by Antireflection. <i>Plasmonics</i> , 2013, 8, 1087-1093.	3.4	3
86	Efficient Light Absorption in Organic Solar Cells Based on Two-Dimensional Arrayed Dielectric Nanospheres. <i>IEEE Photonics Journal</i> , 2016, 8, 1-9.	2.0	3
87	Performance improvement in inverted organic solar cells by incorporating core-shell SiO ₂ @Au plasmonic structures. , 2019, , .		3
88	Photodetector Based on CsPbBr ₃ /Cs ₄ PbBr ₆ Composite Nanocrystals with High Detectivity. <i>Crystals</i> , 2021, 11, 1287.	2.2	3
89	Beam Collimation Using an Anisotropic Metamaterial Slab Without Any Nanometer-Sized Aperture. <i>Plasmonics</i> , 2016, 11, 803-809.	3.4	2
90	Absorption Enhancement in Thin Organic Solar Cells With MoO ₃ /Ag/MoO ₃ Transparent Anode Based on Short-Pitched Metallic Grating. <i>IEEE Photonics Journal</i> , 2017, 9, 1-7.	2.0	2

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91	Effect of spherical metallic nanoparticles in active layer on absorption enhancement in organic solar cells. Journal of Photonics for Energy, 2017, 7, 1.	1.3	2
92	Plasmonic Sensors Based on Rayleigh Anomaly. , 2012, , .		2
93	A comprehensive optimization strategy: potassium phytate-doped SnO ₂ as the electron-transport layer for high-efficiency perovskite solar cells. Journal of Materials Chemistry C, 2022, 10, 7641-7650.	5.5	2
94	Metal-island-film-based plasmonic triple-layer absorber. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 1469.	2.1	1
95	Nanodevices: Record-Low-Threshold Lasers Based on Atomically Smooth Triangular Nanoplatelet Perovskite (Adv. Funct. Mater. 2/2019). Advanced Functional Materials, 2019, 29, 1970012.	14.9	1
96	Designing a Thin Film Blackbody Based on Plasmonic Anisotropic metamaterials. , 2012, , .		1
97	Multiband electromagnetic absorbers based on a metal/dielectric multilayer stack. , 2012, , .		1
98	Transmission enhancement, perfect absorption and field squeezing with nano-antennas and metamaterials. , 2009, , .		0
99	Band offsets of Er ₂ O ₃ films grown on Ge substrates by X-ray photoelectron spectroscopy. Applied Physics A: Materials Science and Processing, 2014, 115, 797-800.	2.3	0
100	Designing a Thin Film Blackbody Based on Plasmonic Anisotropic Metamaterials. , 2012, , .		0
101	Designing a Thin Film Beam Collimator Based on a Metal/dielectric Multilayer Structure. , 2013, , .		0
102	Thin Film Dual Band Metamaterial Absorber Based on Gold Triangular Patches. , 2013, , .		0
103	Efficient Broadband Absorber Based on Plasmonic Nanoparticles. , 2015, , .		0
104	Enhanced Performance in Perovskite Optoelectronic Devices. , 2019, , .		0
105	Enhancing performance of inverted organic solar cells by nano-imprinting the active layer with a PDMS template. , 2019, , .		0