

# Bao-Hua Jia

## List of Publications by Year in descending order

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308  
papers

10,683  
citations

34105

52  
h-index

48315

88  
g-index

315  
all docs

315  
docs citations

315  
times ranked

10972  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Metamaterial Emitter for Highly Efficient Radiative Cooling. <i>Advanced Optical Materials</i> , 2015, 3, 1047-1051.	7.3	462
2	A 90-nm-thick graphene metamaterial for strong and extremely broadband absorption of unpolarized light. <i>Nature Photonics</i> , 2019, 13, 270-276.	31.4	309
3	Two-Dimensional CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Nanosheets for Ultrafast Pulsed Fiber Lasers. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 12759-12765.	8.0	296
4	Broadband Enhancement in Thin-Film Amorphous Silicon Solar Cells Enabled by Nucleated Silver Nanoparticles. <i>Nano Letters</i> , 2012, 12, 2187-2192.	9.1	259
5	Structured graphene metamaterial selective absorbers for high efficiency and omnidirectional solar thermal energy conversion. <i>Nature Communications</i> , 2020, 11, 1389.	12.8	253
6	Recent advances on optical vortex generation. <i>Nanophotonics</i> , 2018, 7, 1533-1556.	6.0	238
7	Highly Thermally Conductive Dielectric Nanocomposites with Synergistic Alignments of Graphene and Boron Nitride Nanosheets. <i>Advanced Functional Materials</i> , 2020, 30, 1910826.	14.9	223
8	Bound States in the Continuum in Anisotropic Plasmonic Metasurfaces. <i>Nano Letters</i> , 2020, 20, 6351-6356.	9.1	212
9	Exceeding the limit of plasmonic light trapping in textured screen-printed solar cells using Al nanoparticles and wrinkle-like graphene sheets. <i>Light: Science and Applications</i> , 2013, 2, e92-e92.	16.6	209
10	Engineering Bismuth-Tin Interface in Bimetallic Aerogel with a 3D Porous Structure for Highly Selective Electrocatalytic CO <sub>2</sub> Reduction to HCOOH. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12554-12559.	13.8	188
11	Chemical Stabilization of 1T Phase Transition Metal Dichalcogenides with Giant Optical Kerr Nonlinearity. <i>Journal of the American Chemical Society</i> , 2017, 139, 2504-2511.	13.7	171
12	Nanostructured Plasmonic Medium for Terahertz Bandwidth All-Optical Switching. <i>Advanced Materials</i> , 2011, 23, 5540-5544.	21.0	169
13	Recent Progress of Vacancy Engineering for Electrochemical Energy Conversion Related Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2009070.	14.9	166
14	In Situ Third-Order Nonlinear Responses During Laser Reduction of Graphene Oxide Thin Films Towards On-Chip Nonlinear Photonic Devices. <i>Advanced Materials</i> , 2014, 26, 2699-2703.	21.0	145
15	Highly efficient and ultra-broadband graphene oxide ultrathin lenses with three-dimensional subwavelength focusing. <i>Nature Communications</i> , 2015, 6, 8433.	12.8	133
16	Tunable high-efficiency light absorption of monolayer graphene via Tamm plasmon polaritons. <i>Optics Letters</i> , 2016, 41, 4743.	3.3	119
17	Observation of the inverse Doppler effect in negative-index materials at optical frequencies. <i>Nature Photonics</i> , 2011, 5, 239-242.	31.4	118
18	Invited Article: Enhanced four-wave mixing in waveguides integrated with graphene oxide. <i>APL Photonics</i> , 2018, 3, .	5.7	114

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19	High-photosensitive resin for super-resolution direct-laser-writing based on photoinhibited polymerization. <i>Optics Express</i> , 2011, 19, 19486.	3.4	112
20	Towards enhanced energy density of graphene-based supercapacitors: Current status, approaches, and future directions. <i>Journal of Power Sources</i> , 2018, 396, 182-206.	7.8	111
21	Triggering the Passivation Effect of Potassium Doping in Mixed-Cation Mixed-Halide Perovskite by Light Illumination. <i>Advanced Energy Materials</i> , 2019, 9, 1901016.	19.5	109
22	Dynamic generation of Debye diffraction-limited multifocal arrays for direct laser printing nanofabrication. <i>Optics Letters</i> , 2011, 36, 406.	3.3	103
23	Low cost and high performance Al nanoparticles for broadband light trapping in Si wafer solar cells. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	103
24	Towards ultra-thin plasmonic silicon wafer solar cells with minimized efficiency loss. <i>Scientific Reports</i> , 2014, 4, 4939.	3.3	102
25	Tailoring pores in graphene-based materials: from generation to applications. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16537-16558.	10.3	99
26	Graphene-Based Multilayered Metamaterials with Phototunable Architecture for on-Chip Photonic Devices. <i>ACS Photonics</i> , 2019, 6, 1033-1040.	6.6	98
27	Fundamental Transport Mechanisms and Advancements of Graphene Oxide Membranes for Molecular Separation. <i>Chemistry of Materials</i> , 2019, 31, 1829-1846.	6.7	95
28	Perovskite-based low-cost and high-efficiency hybrid halide solar cells. <i>Photonics Research</i> , 2014, 2, 111.	7.0	89
29	A critical review on multifunctional composites as structural capacitors for energy storage. <i>Composite Structures</i> , 2018, 188, 126-142.	5.8	89
30	The Dominant Energy Transport Pathway in Halide Perovskites: Photon Recycling or Carrier Diffusion?. <i>Advanced Energy Materials</i> , 2019, 9, 1900185.	19.5	85
31	Hybridized Graphene for Supercapacitors: Beyond the Limitation of Pure Graphene. <i>Small</i> , 2021, 17, e2007311.	10.0	83
32	Nanoplasmonics: a frontier of photovoltaic solar cells. <i>Nanophotonics</i> , 2012, 1, 235-248.	6.0	79
33	Evolutionary topology optimization of periodic composites for extremal magnetic permeability and electrical permittivity. <i>Structural and Multidisciplinary Optimization</i> , 2012, 46, 385-398.	3.5	79
34	Radiative cooling: Fundamental physics, atmospheric influences, materials and structural engineering, applications and beyond. <i>Nano Energy</i> , 2021, 80, 105517.	16.0	78
35	Full-Stokes Polarization Perfect Absorption with Diatomic Metasurfaces. <i>Nano Letters</i> , 2021, 21, 1090-1095.	9.1	78
36	Hybrid anisotropic plasmonic metasurfaces with multiple resonances of focused light beams. <i>Nano Letters</i> , 2021, 21, 8917-8923.	9.1	76

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37	2D Layered Graphene Oxide Films Integrated with Micro-Ring Resonators for Enhanced Nonlinear Optics. <i>Small</i> , 2020, 16, e1906563.	10.0	75
38	Template-Free Synthesis of High-Yield Fe-Doped Cesium Lead Halide Perovskite Ultralong Microwires with Enhanced Two-Photon Absorption. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4878-4885.	4.6	73
39	Graphene Oxide for Integrated Photonics and Flat Optics. <i>Advanced Materials</i> , 2021, 33, e2006415.	21.0	72
40	Main group metal elements for ambient-condition electrochemical nitrogen reduction. <i>Journal of Energy Chemistry</i> , 2021, 62, 51-70.	12.9	70
41	Direct measurement of a radially polarized focused evanescent field facilitated by a single LCD. <i>Optics Express</i> , 2005, 13, 6821.	3.4	67
42	Graphene Oxide Waveguide and Micro-Ring Resonator Polarizers. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900056.	8.7	66
43	Flexibly tunable high-quality-factor induced transparency in plasmonic systems. <i>Scientific Reports</i> , 2018, 8, 1558.	3.3	65
44	Diffraction-limited imaging with monolayer 2D material-based ultrathin flat lenses. <i>Light: Science and Applications</i> , 2020, 9, 137.	16.6	65
45	Enhanced Kerr Nonlinearity and Nonlinear Figure of Merit in Silicon Nanowires Integrated with 2D Graphene Oxide Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 33094-33103.	8.0	61
46	A Varifocal Graphene Metalens for Broadband Zoom Imaging Covering the Entire Visible Region. <i>ACS Nano</i> , 2021, 15, 4769-4776.	14.6	59
47	Photophysics of 2D Organic-Inorganic Hybrid Lead Halide Perovskites: Progress, Debates, and Challenges. <i>Advanced Science</i> , 2021, 8, 2001843.	11.2	59
48	Unsaturated p-Metal-Based Metal-Organic Frameworks for Selective Nitrogen Reduction under Ambient Conditions. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 44830-44839.	8.0	58
49	Fabrication of three-dimensional woodpile photonic crystals in a PbSe quantum dot composite material. <i>Optics Express</i> , 2006, 14, 10740.	3.4	56
50	Use of radially polarized beams in three-dimensional photonic crystal fabrication with the two-photon polymerization method. <i>Optics Letters</i> , 2009, 34, 1918.	3.3	56
51	Bi-directional evolutionary optimization for photonic band gap structures. <i>Journal of Computational Physics</i> , 2015, 302, 393-404.	3.8	56
52	Ultraviolet Plasmonic Aluminium Nanoparticles for Highly Efficient Light Incoupling on Silicon Solar Cells. <i>Nanomaterials</i> , 2016, 6, 95.	4.1	55
53	Three-dimensional super-resolution longitudinal magnetization spot arrays. <i>Light: Science and Applications</i> , 2017, 6, e17032-e17032.	16.6	54
54	Beyond Phototherapy: Recent Advances in Multifunctional Fluorescent Nanoparticles for Light-Triggered Tumor Theranostics. <i>Advanced Functional Materials</i> , 2018, 28, 1803733.	14.9	54

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55	Improved multicrystalline Si solar cells by light trapping from Al nanoparticle enhanced antireflection coating. <i>Optical Materials Express</i> , 2013, 3, 489.	3.0	53
56	Polarization characterization in the focal volume of high numerical aperture objectives. <i>Optics Express</i> , 2010, 18, 10813.	3.4	52
57	Preparation and Electrocatalytic Properties of Polydopamine Functionalized Reduced Graphene Oxide-Silver Nanocomposites. <i>Electrocatalysis</i> , 2015, 6, 72-76.	3.0	52
58	Enhanced Four-Wave Mixing in Silicon Nitride Waveguides Integrated with 2D Layered Graphene Oxide Films. <i>Advanced Optical Materials</i> , 2020, 8, 2001048.	7.3	52
59	Breaking Platinum Nanoparticles to Single-Atomic Pt <sub>4</sub> Co-catalysts for Enhanced Solar-to-Hydrogen Conversion. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2541-2547.	13.8	51
60	Plasmonic nanostructures in photodetection, energy conversion and beyond. <i>Nanophotonics</i> , 2020, 9, 3135-3163.	6.0	51
61	An accurate design of graphene oxide ultrathin flat lens based on Rayleigh-Sommerfeld theory. <i>Opto-Electronic Advances</i> , 2018, 1, 18001201-18001207.	13.3	51
62	Direct observation of a pure focused evanescent field of a high numerical aperture objective lens by scanning near-field optical microscopy. <i>Applied Physics Letters</i> , 2005, 86, 131110.	3.3	49
63	Enhanced photothermal therapy assisted with gold nanorods using a radially polarized beam. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	49
64	On-chip energy storage integrated with solar cells using a laser scribed graphene oxide film. <i>Applied Physics Letters</i> , 2015, 107, 031105.	3.3	49
65	An Emerging Lead-Free Double-Perovskite Cs <sub>2</sub> AgFeCl <sub>6</sub> :In Single Crystal. <i>Advanced Functional Materials</i> , 2020, 30, 2002225.	14.9	48
66	Slow Response of Carrier Dynamics in Perovskite Interface upon Illumination. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31452-31461.	8.0	47
67	Effect of graphene oxide concentration on the flexural properties of CFRP at low temperature. <i>Carbon</i> , 2019, 152, 556-564.	10.3	47
68	Two-Photon Polymerization for Three-Dimensional Photonic Devices in Polymers and Nanocomposites. <i>Australian Journal of Chemistry</i> , 2007, 60, 484.	0.9	46
69	Transient Energy Reservoir in 2D Perovskites. <i>Advanced Optical Materials</i> , 2019, 7, 1900971.	7.3	46
70	Resilient Graphene Ultrathin Flat Lens in Aerospace, Chemical, and Biological Harsh Environments. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 20298-20303.	8.0	45
71	Spectral Redistribution in Spontaneous Emission from Quantum-Dot-Infiltrated 3D Woodpile Photonic Crystals for Telecommunications. <i>Advanced Materials</i> , 2007, 19, 3276-3280.	21.0	44
72	Large-size, high-uniformity, random silver nanowire networks as transparent electrodes for crystalline silicon wafer solar cells. <i>Optics Express</i> , 2013, 21, A355.	3.4	44

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73	Spatially Modulating the Fluorescence Color of Mixed-Halide Perovskite Nanoplatelets through Direct Femtosecond Laser Writing. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 26017-26023.	8.0	44
74	Tracking Dynamic Phase Segregation in Mixed-Halide Perovskite Single Crystals under Two-Photon Scanning Laser Illumination. <i>Small Methods</i> , 2019, 3, 1900273.	8.6	44
75	A small change in the local atomic environment for a big improvement in single-atom catalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4184-4192.	10.3	44
76	Inverse design of higher-order photonic topological insulators. <i>Physical Review Research</i> , 2020, 2, .	3.6	42
77	Generation of an axially super-resolved quasi-spherical focal spot using an amplitude-modulated radially polarized beam. <i>Optics Letters</i> , 2011, 36, 2471.	3.3	41
78	Giant third-order nonlinearity from low-loss electrochemical graphene oxide film with a high power stability. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	41
79	Role of Surface Recombination in Halide Perovskite Nanoplatelets. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31586-31593.	8.0	41
80	Anisotropic Third-Order Nonlinearity in Pristine and Lithium Hydride Intercalated Black Phosphorus. <i>ACS Photonics</i> , 2018, 5, 4969-4977.	6.6	40
81	The optical properties of Cs <sub>4</sub> PbBr <sub>6</sub> "CsPbBr <sub>3</sub> perovskite composites. <i>Nanoscale</i> , 2019, 11, 14676-14683.	5.6	40
82	Nan gratings and nanoholes fabricated by direct femtosecond laser writing in chalcogenide glasses. <i>Optics Express</i> , 2010, 18, 6885.	3.4	39
83	Efficiency enhancement of screen-printed multicrystalline silicon solar cells by integrating gold nanoparticles via a dip coating process. <i>Optical Materials Express</i> , 2012, 2, 190.	3.0	39
84	Enhanced optical nonlinearities of hybrid graphene oxide films functionalized with gold nanoparticles. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	39
85	Rechargeable sunlight-promoted Zn-air battery constructed by bifunctional oxygen photoelectrodes: Energy-band switching between ZnO/Cu <sub>2</sub> O and ZnO/CuO in charge-discharge cycles. <i>Chemical Engineering Journal</i> , 2022, 433, 133559.	12.7	39
86	Fabrication Technologies for the On-Chip Integration of 2D Materials. <i>Small Methods</i> , 2022, 6, e2101435.	8.6	39
87	Engineering stop gaps of inorganic-organic polymeric 3D woodpile photonic crystals with post-thermal treatment. <i>Optics Express</i> , 2008, 16, 20073.	3.4	38
88	Enhanced photocurrent in crystalline silicon solar cells by hybrid plasmonic antireflection coatings. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	38
89	Carbon nanotube and graphene oxide directed electrochemical synthesis of silver dendrites. <i>RSC Advances</i> , 2014, 4, 39645-39650.	3.6	38
90	Observation of Third-order Nonlinearities in Graphene Oxide Film at Telecommunication Wavelengths. <i>Scientific Reports</i> , 2017, 7, 9646.	3.3	38

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91	Laser trimming of graphene oxide for functional photonic applications. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 074003.	2.8	37
92	Designing broad phononic band gaps for in-plane modes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 679-684.	2.1	37
93	External Stokes shift of perovskite nanocrystals enlarged by photon recycling. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	36
94	Engineering Bismuth-Tin Interface in Bimetallic Aerogel with a 3D Porous Structure for Highly Selective Electrocatalytic CO <sub>2</sub> Reduction to HCOOH. <i>Angewandte Chemie</i> , 2021, 133, 12662-12667.	2.0	36
95	Carbon-based absorbers for solar evaporation: Steam generation and beyond. <i>Sustainable Materials and Technologies</i> , 2020, 25, e00182.	3.3	35
96	Optimization of ionic-liquid based electrolyte concentration for high-energy density graphene supercapacitors. <i>Applied Materials Today</i> , 2020, 18, 100522.	4.3	34
97	Large Third-Order Optical Kerr Nonlinearity in Nanometer-Thick PdSe <sub>2</sub> 2D Dichalcogenide Films: Implications for Nonlinear Photonic Devices. <i>ACS Applied Nano Materials</i> , 2020, 3, 6876-6883.	5.0	34
98	Analysis of Four-Wave Mixing in Silicon Nitride Waveguides Integrated With 2D Layered Graphene Oxide Films. <i>Journal of Lightwave Technology</i> , 2021, 39, 2902-2910.	4.6	33
99	Computational Investigation of MgH <sub>2</sub> /Graphene Heterojunctions for Hydrogen Storage. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2357-2363.	3.1	33
100	Lead-free metal-halide double perovskites: from optoelectronic properties to applications. <i>Nanophotonics</i> , 2021, 10, 2181-2219.	6.0	33
101	Integrating Covalent Organic Framework with Transition Metal Phosphide for Noble-Metal-Free Visible-Light-Driven Photocatalytic H <sub>2</sub> Evolution. <i>Small</i> , 2022, 18, .	10.0	33
102	Engineering van der Waals Materials for Advanced Metaphotonics. <i>Chemical Reviews</i> , 2022, 122, 15204-15355.	47.7	33
103	Highly Nonlinear Quantum Dot Doped Nanocomposites for Functional Three-Dimensional Structures Generated by Two-Photon Polymerization. <i>Advanced Materials</i> , 2010, 22, 2463-2467.	21.0	32
104	Optimized Electroless Silver Coating for Optical and Plasmonic Applications. <i>Plasmonics</i> , 2012, 7, 633-639.	3.4	32
105	Near-field light concentration of ultra-small metallic nanoparticles for absorption enhancement in a-Si solar cells. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	32
106	Observation of multiple higher-order stopgaps from three-dimensional chalcogenide glass photonic crystals. <i>Optics Letters</i> , 2008, 33, 2311.	3.3	31
107	Three-dimensional nanoscale far-field focusing of radially polarized light by scattering the SPPs with an annular groove. <i>Optics Express</i> , 2010, 18, 14664.	3.4	31
108	Simultaneous broadband light trapping and fill factor enhancement in crystalline silicon solar cells induced by Ag nanoparticles and nanoshells. <i>Optics Express</i> , 2012, 20, A694.	3.4	31

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109	Boosting the electrical and mechanical properties of structural dielectric capacitor composites via gold nanoparticle doping. <i>Composites Part B: Engineering</i> , 2019, 178, 107480.	12.0	31
110	Highly nonlinear BiOBr nanoflakes for hybrid integrated photonics. <i>APL Photonics</i> , 2019, 4, .	5.7	31
111	Light-limited photosynthesis under energy-saving film decreases eggplant yield. <i>Food and Energy Security</i> , 2020, 9, e245.	4.3	31
112	Dual-Polarization Second-Order Photonic Topological Insulators. <i>Physical Review Applied</i> , 2021, 15, .	3.8	31
113	Influence of rear located silver nanoparticle induced light losses on the light trapping of silicon wafer-based solar cells. <i>Journal of Applied Physics</i> , 2014, 116, 124303.	2.5	30
114	Functional Optical Plasmonic Resonators Fabricated via Highly Photosensitive Direct Laser Reduction. <i>Advanced Optical Materials</i> , 2016, 4, 529-533.	7.3	30
115	Illumination-induced Halide Segregation in Gradient Bandgap Mixed-Halide Perovskite Nanoplatelets. <i>Advanced Optical Materials</i> , 2018, 6, 1801107.	7.3	30
116	Low-overpotential electrochemical ammonia synthesis using BiOCl-modified 2D titanium carbide MXene. <i>Chinese Chemical Letters</i> , 2022, 33, 394-398.	9.0	30
117	Near-field visualization of focal depth modulation by step corrugated plasmonic slits. <i>Applied Physics Letters</i> , 2009, 94, 151912.	3.3	29
118	Doping mechanism directed graphene applications for energy conversion and storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7366-7395.	10.3	29
119	Optimizing the Kerr Nonlinear Optical Performance of Silicon Waveguides Integrated With 2D Graphene Oxide Films. <i>Journal of Lightwave Technology</i> , 2021, 39, 4671-4683.	4.6	29
120	Two-dimensional material functional devices enabled by direct laser fabrication. <i>Frontiers of Optoelectronics</i> , 2018, 11, 2-22.	3.7	28
121	Long-Distance Ionic Diffusion in Cesium Lead Mixed Halide Perovskite Induced by Focused Illumination. <i>Chemistry of Materials</i> , 2019, 31, 9049-9056.	6.7	28
122	Inverse Design of Photonic Topological Insulators with Extra-Wide Bandgaps. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900175.	2.4	28
123	Layer structured materials for ambient nitrogen fixation. <i>Coordination Chemistry Reviews</i> , 2022, 460, 214468.	18.8	28
124	Advanced Catalytic and Electrocatalytic Performances of Polydopamine-Functionalized Reduced Graphene Oxide-Palladium Nanocomposites. <i>ChemCatChem</i> , 2016, 8, 2975-2980.	3.7	27
125	High-Speed Modulator Based on Electro-Optic Polymer Infiltrated Subwavelength Grating Waveguide Ring Resonator. <i>Laser and Photonics Reviews</i> , 2018, 12, 1700300.	8.7	27
126	Flat Lenses Based on 2D Perovskite Nanosheets. <i>Advanced Materials</i> , 2020, 32, e2001388.	21.0	26

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127	Graphene metalens for particle nanotracking. <i>Photonics Research</i> , 2020, 8, 1316.	7.0	25
128	Surface and interface chemistry in metal-free electrocatalysts for electrochemical CO <sub>2</sub> reduction. <i>SmartMat</i> , 2022, 3, 5-34.	10.7	25
129	Concept to devices: from plasmonic light trapping to upscaled plasmonic solar modules [Invited]. <i>Photonics Research</i> , 2013, 1, 22.	7.0	24
130	Electrical and Structural Dual Function of Oxygen Vacancies for Promoting Electrochemical Capacitance in Tungsten Oxide. <i>Small</i> , 2020, 16, e2004709.	10.0	24
131	Graphene Multilayer Photonic Metamaterials: Fundamentals and Applications. <i>Advanced Materials Technologies</i> , 2021, 6, 2000963.	5.8	24
132	Use of two-photon polymerization for continuous gray-level encoding of diffractive optical elements. <i>Applied Physics Letters</i> , 2007, 90, 073503.	3.3	23
133	Three-dimensional hybrid photonic crystals merged with localized plasmon resonances. <i>Optics Express</i> , 2010, 18, 4491.	3.4	23
134	Biomimetic and plasmonic hybrid light trapping for highly efficient ultrathin crystalline silicon solar cells. <i>Optics Express</i> , 2016, 24, A506.	3.4	23
135	Achieving Large Band Gaps in 2D Symmetric and Asymmetric Photonic Crystals. <i>Journal of Lightwave Technology</i> , 2017, 35, 1670-1676.	4.6	22
136	High-Performance Ultrathin Organic-Inorganic Hybrid Silicon Solar Cells via Solution-Processed Interface Modification. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 21723-21729.	8.0	22
137	Epoxy-gold nanoparticle nanocomposites with enhanced thermo-mechanical properties: An integrated modelling and experimental study. <i>Composites Science and Technology</i> , 2019, 174, 106-116.	7.8	22
138	Graphene oxide thin film structural dielectric capacitors for aviation static electricity harvesting and storage. <i>Composites Part B: Engineering</i> , 2020, 201, 108375.	12.0	22
139	Optimization of enhanced absorption in 3D-woodpile metallic photonic crystals. <i>Optics Express</i> , 2010, 18, 9048.	3.4	21
140	On-Demand Design of Tunable Complete Photonic Band Gaps based on Bloch Mode Analysis. <i>Scientific Reports</i> , 2018, 8, 14283.	3.3	21
141	2D optical materials and the implications for photonics. <i>APL Photonics</i> , 2019, 4, .	5.7	21
142	Self-assembled carbon dot-wrapped perovskites enable light trapping and defect passivation for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7508-7521.	10.3	21
143	Dynamic modeling of superresolution photoinduced-inhibition nanolithography. <i>Optics Express</i> , 2012, 20, 16871.	3.4	20
144	Graphenized Carbon Nanofiber: A Novel Light-Trapping and Conductive Material to Achieve an Efficiency Breakthrough in Silicon Solar Cells. <i>Advanced Materials</i> , 2015, 27, 849-855.	21.0	20

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145	Topology optimization of photonic structures for all-angle negative refraction. <i>Finite Elements in Analysis and Design</i> , 2016, 117-118, 46-56.	3.2	20
146	Two-photon reduction: a cost-effective method for fabrication of functional metallic nanostructures. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1.	5.1	20
147	Five-fold plasmonic Fano resonances with giant bisignate circular dichroism. <i>Nanoscale</i> , 2018, 10, 16630-16637.	5.6	20
148	Determining In-Plane Carrier Diffusion in Two-Dimensional Perovskite Using Local Time-Resolved Photoluminescence. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 26384-26390.	8.0	20
149	Ultrafast multi-target control of tightly focused light fields. <i>Opto-Electronic Advances</i> , 2022, 5, 210026-210026.	13.3	20
150	Direction-dependent spontaneous emission from near-infrared quantum dots at the angular band edges of a three-dimensional photonic crystal. <i>Applied Physics Letters</i> , 2007, 91, 254101.	3.3	19
151	Fabrication of three-dimensional photonic crystals in quantum-dot-based materials. <i>Laser and Photonics Reviews</i> , 2010, 4, 414-431.	8.7	19
152	Multifunctional graphene oxide paper embodied structural dielectric capacitor based on carbon fibre reinforced composites. <i>Composites Science and Technology</i> , 2018, 163, 180-190.	7.8	19
153	Design and Optimization of Four-Wave Mixing in Microring Resonators Integrated With 2D Graphene Oxide Films. <i>Journal of Lightwave Technology</i> , 2021, 39, 6553-6562.	4.6	19
154	A frozen matrix hybrid optical nonlinear system enhanced by a particle lens. <i>Nanoscale</i> , 2015, 7, 14982-14988.	5.6	18
155	Ultrahigh heating rate induced micro-explosive production of graphene for energy storage. <i>Journal of Power Sources</i> , 2019, 442, 227224.	7.8	18
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