

Bao-Hua Jia

List of Publications by Year in descending order

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308
papers

10,683
citations

34105

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315
all docs

315
docs citations

315
times ranked

10972
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-overpotential electrochemical ammonia synthesis using BiOCl-modified 2D titanium carbide MXene. Chinese Chemical Letters, 2022, 33, 394-398.	9.0	30
2	Energy Funneling in Quasi-2D Ruddlesden-Popper Perovskites: Charge Transfer versus Resonant Energy Transfer. Advanced Photonics Research, 2022, 3, 2100283.	3.6	8
3	Ultrafast multi-target control of tightly focused light fields. Opto-Electronic Advances, 2022, 5, 210026-210026.	13.3	20
4	Rechargeable sunlight-promoted Zn-air battery constructed by bifunctional oxygen photoelectrodes: Energy-band switching between ZnO/Cu ₂ O and ZnO/CuO in charge-discharge cycles. Chemical Engineering Journal, 2022, 433, 133559.	12.7	39
5	Fabrication Technologies for the On-Chip Integration of 2D Materials. Small Methods, 2022, 6, e2101435.	8.6	39
6	Surface and interface chemistry in metal-free electrocatalysts for electrochemical CO ₂ reduction. SmartMat, 2022, 3, 5-34.	10.7	25
7	Specializing liquid electrolytes and carbon-based materials in EDLCs for low-temperature applications. Journal of Energy Chemistry, 2022, 68, 580-602.	12.9	14
8	Mechanism of Photoinduced Phase Segregation in Mixed-Halide Perovskite Microplatelets and Its Application in Micropatterning. ACS Applied Materials & Interfaces, 2022, 14, 12412-12422.	8.0	13
9	New insight into carrier transport in 2D layered perovskites. Chem, 2022, 8, 904-906.	11.7	9
10	Enhanced nonlinear optics in nanowires, waveguides, and ring resonators integrated with graphene oxide films. , 2022, , .		0
11	Layer structured materials for ambient nitrogen fixation. Coordination Chemistry Reviews, 2022, 460, 214468.	18.8	28
12	Ultrafast Tm:CaYAlO ₄ laser with pulse regulation and saturation parameters evolution in the 2.14 μm water absorption band. Optics and Laser Technology, 2022, 152, 108096.	4.6	5
13	Controllable Acceleration and Deceleration of Charge Carrier Transport in Metal-Halide Perovskite Single-Crystal by Cs-Cation Induced Bandgap Engineering. Small, 2022, 18, e2107680.	10.0	3
14	Plasmon-induced long-lived hot electrons in degenerately doped molybdenum oxides for visible-light-driven photochemical reactions. Materials Today, 2022, 55, 21-28.	14.2	18
15	Enhanced Spectral Broadening of Femtosecond Optical Pulses in Silicon Nanowires Integrated with 2D Graphene Oxide Films. Micromachines, 2022, 13, 756.	2.9	15
16	Origin and physical effects of edge states in two-dimensional Ruddlesden-Popper perovskites. IScience, 2022, 25, 104420.	4.1	8
17	Integrating Covalent Organic Framework with Transition Metal Phosphide for Noble-Metal-Free Visible-Light-Driven Photocatalytic H ₂ Evolution. Small, 2022, 18, .	10.0	33
18	Tunable Thermochromic Graphene Metamaterials with Iridescent Color. Nano Letters, 2022, 22, 6026-6033.	9.1	4

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19	Giant and light modifiable third-order optical nonlinearity in a free-standing h-BN film. , 2022, 1, 210013-210013.		6
20	Engineering van der Waals Materials for Advanced Metaphotonics. Chemical Reviews, 2022, 122, 15204-15355.	47.7	33
21	Observation of Emergent Dirac Physics at the Surfaces of Acoustic Higher-Order Topological Insulators. Advanced Science, 2022, 9, .	11.2	9
22	Revealing Dynamic Effects of Mobile Ions in Halide Perovskite Solar Cells Using Time-Resolved Microspectroscopy. Small Methods, 2021, 5, e2000731.	8.6	18
23	Theoretical investigation of CoTa ₂ O ₆ /graphene heterojunctions for oxygen evolution reaction. Frontiers of Physics, 2021, 16, 1.	5.0	6
24	Radiative cooling: Fundamental physics, atmospheric influences, materials and structural engineering, applications and beyond. Nano Energy, 2021, 80, 105517.	16.0	78
25	Tailoring mechanical and electrical properties of graphene oxide film for structural dielectric capacitors. Journal of Power Sources, 2021, 482, 229020.	7.8	14
26	Graphene Oxide for Integrated Photonics and Flat Optics. Advanced Materials, 2021, 33, e2006415.	21.0	72
27	Recent Progress of Vacancy Engineering for Electrochemical Energy Conversion Related Applications. Advanced Functional Materials, 2021, 31, 2009070.	14.9	166
28	Breaking Platinum Nanoparticles to Single-Atomic Pt ₄ Co-catalysts for Enhanced Solar-to-Hydrogen Conversion. Angewandte Chemie - International Edition, 2021, 60, 2541-2547.	13.8	51
29	Breaking Platinum Nanoparticles to Single-Atomic Pt ₄ Co-catalysts for Enhanced Solar-to-Hydrogen Conversion. Angewandte Chemie, 2021, 133, 2571-2577.	2.0	8
30	An ultrahigh sensitivity micro-cliff graphene wearable pressure sensor made by instant flash light exposure. Nanoscale, 2021, 13, 15380-15393.	5.6	9
31	Doping mechanism directed graphene applications for energy conversion and storage. Journal of Materials Chemistry A, 2021, 9, 7366-7395.	10.3	29
32	Plasmonic diatomic metasurfaces for full-Stokes polarization perfect absorption. , 2021, , .		0
33	Spectroscopic Insight into Efficient and Stable Hole Transfer at the Perovskite/Spiro-OMeTAD Interface with Alternative Additives. ACS Applied Materials & Interfaces, 2021, 13, 5752-5761.	8.0	17
34	Full-Stokes Polarization Perfect Absorption with Diatomic Metasurfaces. Nano Letters, 2021, 21, 1090-1095.	9.1	78
35	Dynamic control of magnetization spot arrays with three-dimensional orientations. Optics Express, 2021, 29, 961.	3.4	14
36	Enhanced Kerr nonlinear performance in graphene oxide-coated silicon and silicon nitride waveguides. , 2021, , .		0

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37	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
38	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
39	Layer number dependent exciton dissociation and carrier recombination in 2D Ruddlesden-Popper halide perovskites. <i>Journal of Materials Chemistry C</i> , 2021, 9, 8966-8974.	5.5	18
40	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
41	A Varifocal Graphene Metalens for Broadband Zoom Imaging Covering the Entire Visible Region. <i>ACS Nano</i> , 2021, 15, 4769-4776.	14.6	59
42	Hybridized Graphene for Supercapacitors: Beyond the Limitation of Pure Graphene. <i>Small</i> , 2021, 17, e2007311.	10.0	83
43	Dual-Polarization Second-Order Photonic Topological Insulators. <i>Physical Review Applied</i> , 2021, 15, .	3.8	31
44	Graphene Multilayer Photonic Metamaterials: Fundamentals and Applications. <i>Advanced Materials Technologies</i> , 2021, 6, 2000963.	5.8	24
45	Engineering Bismuth-Tin Interface in Bimetallic Aerogel with a 3D Porous Structure for Highly Selective Electrocatalytic CO ₂ Reduction to HCOOH. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12554-12559.	13.8	188
46	Ampoule method fabricated sulfur vacancy-rich N-doped ZnS electrodes for ammonia production in alkaline media. <i>Materials for Renewable and Sustainable Energy</i> , 2021, 10, 1.	3.6	11
47	Computational Investigation of MgH ₂ /NbO _x for Hydrogen Storage. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8862-8868.	3.1	9
48	Engineering Bismuth-Tin Interface in Bimetallic Aerogel with a 3D Porous Structure for Highly Selective Electrocatalytic CO ₂ Reduction to HCOOH. <i>Angewandte Chemie</i> , 2021, 133, 12662-12667.	2.0	36
49	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
50	Graphene Metapixels for Dynamically Switchable Structural Color. <i>ACS Nano</i> , 2021, 15, 8930-8939.	14.6	16
51	Flash-Induced Ultrafast Production of Graphene/MnO with Extraordinary Supercapacitance. <i>Small Methods</i> , 2021, 5, e2100225.	8.6	15
52	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
53	Hybrid anisotropic plasmonic metasurfaces with multiple resonances of focused light beams. <i>Nano Letters</i> , 2021, 21, 8917-8923.	9.1	76
54	Main group metal elements for ambient-condition electrochemical nitrogen reduction. <i>Journal of Energy Chemistry</i> , 2021, 62, 51-70.	12.9	70

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55	Photophysics of 2D Organic-Inorganic Hybrid Lead Halide Perovskites: Progress, Debates, and Challenges. <i>Advanced Science</i> , 2021, 8, 2001843.	11.2	59
56	Computational Investigation of MgH ₂ /Graphene Heterojunctions for Hydrogen Storage. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2357-2363.	3.1	33
57	Lead-free metal-halide double perovskites: from optoelectronic properties to applications. <i>Nanophotonics</i> , 2021, 10, 2181-2219.	6.0	33
58	Synergy of Bi ₂ O ₃ and RuO ₂ Nanocatalysts for Low Overpotential and Wide pH Window Electrochemical Ammonia Synthesis. <i>Chemistry - A European Journal</i> , 2021, 27, 17395-17401.	3.3	8
59	High tolerance detour-phase graphene-oxide flat lens. <i>Photonics Research</i> , 2021, 9, 2454.	7.0	7
60	Fabrication of graphene oxide conformally coated fiber Bragg grating. , 2021, , .		0
61	Insight into the Reactivity of Carbon Structures for Nitrogen Reduction Reaction. <i>Langmuir</i> , 2021, 37, 14657-14667.	3.5	5
62	Optimization of ionic-liquid based electrolyte concentration for high-energy density graphene supercapacitors. <i>Applied Materials Today</i> , 2020, 18, 100522.	4.3	34
63	Visualizing the Impact of Light Soaking on Morphological Domains in an Operational Cesium Lead Halide Perovskite Solar Cell. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 136-143.	4.6	17
64	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
65	Tailoring reduction extent of flash-reduced graphene oxides for high performance supercapacitors. <i>Journal of Power Sources</i> , 2020, 478, 228732.	7.8	16
66	Realization of multidimensional sound propagation in 3D acoustic higher-order topological insulator. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	15
67	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
68	Tailoring specific properties of polymer-based composites by using graphene and its associated compounds. <i>International Journal of Smart and Nano Materials</i> , 2020, 11, 173-189.	4.2	7
69	Electrical and Structural Dual Function of Oxygen Vacancies for Promoting Electrochemical Capacitance in Tungsten Oxide. <i>Small</i> , 2020, 16, e2004709.	10.0	24
70	Diffraction-limited imaging with monolayer 2D material-based ultrathin flat lenses. <i>Light: Science and Applications</i> , 2020, 9, 137.	16.6	65
71	Perovskite Lenses: Flat Lenses Based on 2D Perovskite Nanosheets (Adv. Mater. 30/2020). <i>Advanced Materials</i> , 2020, 32, 2070228.	21.0	0
72	Diffraction-Limited Imaging with a Graphene Metalens*. <i>Chinese Physics Letters</i> , 2020, 37, 106801.	3.3	3

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73	Triggering a Self-Sustaining Reduction of Graphenes Oxide for High-Performance Energy Storage Devices. ACS Applied Nano Materials, 2020, 3, 9117-9126.	5.0	7
74	Light-limited photosynthesis under energy-saving film decreases eggplant yield. Food and Energy Security, 2020, 9, e245.	4.3	31
75	An Emerging Lead-Free Double-Perovskite Cs ₂ AgFeCl ₆ :In Single Crystal. Advanced Functional Materials, 2020, 30, 2002225.	14.9	48
76	Unsaturated p-Metal-Based Metal-Organic Frameworks for Selective Nitrogen Reduction under Ambient Conditions. ACS Applied Materials & Interfaces, 2020, 12, 44830-44839.	8.0	58
77	Free-standing graphene oxide mid-infrared polarizers. Nanoscale, 2020, 12, 11480-11488.	5.6	9
78	Bound States in the Continuum in Anisotropic Plasmonic Metasurfaces. Nano Letters, 2020, 20, 6351-6356.	9.1	212
79	Determining In-Plane Carrier Diffusion in Two-Dimensional Perovskite Using Local Time-Resolved Photoluminescence. ACS Applied Materials & Interfaces, 2020, 12, 26384-26390.	8.0	20
80	Carbon-based absorbers for solar evaporation: Steam generation and beyond. Sustainable Materials and Technologies, 2020, 25, e00182.	3.3	35
81	Flat Lenses Based on 2D Perovskite Nanosheets. Advanced Materials, 2020, 32, e2001388.	21.0	26
82	Highly Thermally Conductive Dielectric Nanocomposites with Synergistic Alignments of Graphene and Boron Nitride Nanosheets. Advanced Functional Materials, 2020, 30, 1910826.	14.9	223
83	2D Layered Graphene Oxide Films Integrated with Micro-Ring Resonators for Enhanced Nonlinear Optics. Small, 2020, 16, e1906563.	10.0	75
84	Structured graphene metamaterial selective absorbers for high efficiency and omnidirectional solar thermal energy conversion. Nature Communications, 2020, 11, 1389.	12.8	253
85	Enhanced Kerr Nonlinearity and Nonlinear Figure of Merit in Silicon Nanowires Integrated with 2D Graphene Oxide Films. ACS Applied Materials & Interfaces, 2020, 12, 33094-33103.	8.0	61
86	Large Third-Order Optical Kerr Nonlinearity in Nanometer-Thick PdSe ₂ 2D Dichalcogenide Films: Implications for Nonlinear Photonic Devices. ACS Applied Nano Materials, 2020, 3, 6876-6883.	5.0	34
87	Efficient Energy Funneling by Engineering the Bandgap of a Perovskite: First Resonance Energy Transfer or Charge Transfer?. Journal of Physical Chemistry Letters, 2020, 11, 5963-5971.	4.6	14
88	Inverse design of higher-order photonic topological insulators. Physical Review Research, 2020, 2, .	3.6	42
89	Graphene metalens for particle nanotracking. Photonics Research, 2020, 8, 1316.	7.0	25
90	Plasmonic nanostructures in photodetection, energy conversion and beyond. Nanophotonics, 2020, 9, 3135-3163.	6.0	51

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91	Ultrafast direct laser writing of 2D materials for multifunctional photonics devices [Invited]. Chinese Optics Letters, 2020, 18, 023601.	2.9	16
92	Enhanced four-wave mixing in micro-ring resonators integrated with layered graphene oxide films. , 2020, , .		0
93	Strong third-order Kerr nonlinearity in 2D PdSe ₂ dichalcogenide films. , 2020, , .		0
94	Novel Optical and Photonic Devices based on 2D Materials: feature issue introduction. Optical Materials Express, 2020, 10, 1344.	3.0	0
95	Enhanced self-phase modulation in silicon-on-insulator nanowires integrated with 2D layered graphene oxide films. , 2020, , .		0
96	Enhanced FWM in SiN nanowires integrated with 2D graphene oxide films. , 2020, , .		0
97	Thickness tunable Kerr nonlinearity in BiOBr nanoflakes. , 2020, , .		0
98	Integrated waveguide and micro-ring resonator polarizers with 2D layered graphene oxide films. , 2020, , .		0
99	Enhanced four-wave mixing in micro-ring resonators with integrated 2D layered graphene oxide films. , 2020, , .		1
100	Enhanced self-phase modulation in silicon nanowires integrated with layered graphene oxide films. , 2020, , .		0
101	Integrated polarizers based on graphene oxide in waveguides and ring resonators. , 2020, , .		6
102	BiOBr nanoflakes with strong Kerr nonlinearity towards hybrid integrated photonic devices. , 2020, , .		1
103	Near-perfect microlenses based on graphene microbubbles. Advanced Photonics, 2020, 2, .	11.8	10
104	Graphene Oxide Waveguide and Micro-Ring Resonator Polarizers. Laser and Photonics Reviews, 2019, 13, 1900056.	8.7	66
105	Transient Energy Reservoir in 2D Perovskites. Advanced Optical Materials, 2019, 7, 1900971.	7.3	46
106	The optical properties of Cs ₄ PbBr ₆ â€“CsPbBr ₃ perovskite composites. Nanoscale, 2019, 11, 14676-14683.	5.6	40
107	Spatially Modulating the Fluorescence Color of Mixed-Halide Perovskite Nanoplatelets through Direct Femtosecond Laser Writing. ACS Applied Materials & Interfaces, 2019, 11, 26017-26023.	8.0	44
108	Long-Distance Ionic Diffusion in Cesium Lead Mixed Halide Perovskite Induced by Focused Illumination. Chemistry of Materials, 2019, 31, 9049-9056.	6.7	28

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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	Ultrahigh heating rate induced micro-explosive production of graphene for energy storage. <i>Journal of Power Sources</i> , 2019, 442, 227224.	7.8	18
111	2D optical materials and the implications for photonics. <i>APL Photonics</i> , 2019, 4, .	5.7	21
112	Highly nonlinear BiOBr nanoflakes for hybrid integrated photonics. <i>APL Photonics</i> , 2019, 4, .	5.7	31
113	All-optical vectorial control of multistate magnetization through anisotropy-mediated spin-orbit coupling. <i>Nanophotonics</i> , 2019, 8, 2177-2188.	6.0	15
114	Integrated Wavelength Beam Emitter on Silicon for Two-Dimensional Optical Scanning. <i>IEEE Photonics Journal</i> , 2019, 11, 1-10.	2.0	3
115	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
116	Effect of graphene oxide concentration on the flexural properties of CFRP at low temperature. <i>Carbon</i> , 2019, 152, 556-564.	10.3	47
117	Resilient Graphene Ultrathin Flat Lens in Aerospace, Chemical, and Biological Harsh Environments. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20298-20303.	8.0	45
118	Inverse Design of Photonic Topological Insulators with Extra-Wide Bandgaps. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900175.	2.4	28
119	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
120	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
121	Fundamental Transport Mechanisms and Advancements of Graphene Oxide Membranes for Molecular Separation. <i>Chemistry of Materials</i> , 2019, 31, 1829-1846.	6.7	95
122	The Dominant Energy Transport Pathway in Halide Perovskites: Photon Recycling or Carrier Diffusion?. <i>Advanced Energy Materials</i> , 2019, 9, 1900185.	19.5	85
123	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
124	Graphene-Based Multilayered Metamaterials with Phototunable Architecture for on-Chip Photonic Devices. <i>ACS Photonics</i> , 2019, 6, 1033-1040.	6.6	98
125	Spectral Engineering of Photonic Filters Based on Mode Splitting in Self-Coupled Silicon Nanowire Waveguides. , 2019, , .		0
126	Graphene Metamaterial for High Absorption of Unpolarized Light over More Than Three Octaves of Bandwidth. , 2019, , .		0

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127	Spectral Engineering of Photonic Filters Based on Mode Splitting in Self-Coupled Silicon Nanowire Waveguides. , 2019, , .		0
128	Enhanced Kerr Optical Nonlinearity of Waveguides Integrated with Graphene Oxide. , 2019, , .		0
129	External Stokes shift of perovskite nanocrystals enlarged by photon recycling. Applied Physics Letters, 2019, 114, .	3.3	36
130	One-step synthesis of nail-like Mn-doped CdS/CdBr ₂ hetero-nanostructures for potential lasing application. Nanotechnology, 2019, 30, 075605.	2.6	4
131	A fiber tip graphene oxide lens towards fiber optic endoscope application. , 2019, , .		0
132	Graphene-based layered metamaterial platform for functional photonic devices. , 2019, , .		0
133	Layered Graphene Oxide Films for Enhanced Nonlinear Optics in Integrated Waveguides. , 2019, , .		0
134	Graphene oxide for enhanced nonlinear optics in integrated waveguides. , 2019, , .		0
135	Strong Two Photon Absorption in BiOBr Nanoflakes. , 2019, , .		0
136	Enhanced four-wave mixing in hybrid integrated waveguides with graphene oxide. , 2019, , .		0
137	Light soak study of perovskite-based materials via scanning imaging spectroscopy. , 2019, , .		0
138	Optomechanical micro-structures for single-crystal diamond. , 2019, , .		0
139	Tuning the properties of flash-reduced graphene oxide electrodes for supercapacitor applications. , 2019, , .		0
140	Tuning the fluorescence color of gradient bandgap perovskite nanoplate by direct laser writing. , 2019, , .		0
141	Strong Kerr nonlinearity in BiOBr nanoflakes. , 2019, , .		0
142	Graphene oxide waveguide and micro-ring resonator polarizers. , 2019, , .		0
143	Enhanced Kerr optical nonlinearity of integrated waveguides incorporating layered GO films. , 2019, , .		0
144	Free charges versus excitons: photoluminescence investigation of InGaN/GaN multiple quantum well nanorods and their planar counterparts. Nanoscale, 2018, 10, 5358-5365.	5.6	16

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145	Flexibly tunable high-quality-factor induced transparency in plasmonic systems. <i>Scientific Reports</i> , 2018, 8, 1558.	3.3	65
146	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
147	Design of a structural power composite using graphene oxide as a dielectric material layer. <i>Materials Letters</i> , 2018, 216, 162-165.	2.6	16
148	Super-resolution longitudinally polarized light needle achieved by tightly focusing radially polarized beams. <i>Optoelectronics Letters</i> , 2018, 14, 1-5.	0.8	14
149	Optical super-resolution effect induced by nonlinear characteristics of graphene oxide films. <i>Optoelectronics Letters</i> , 2018, 14, 21-24.	0.8	4
150	A critical review on multifunctional composites as structural capacitors for energy storage. <i>Composite Structures</i> , 2018, 188, 126-142.	5.8	89
151	Two-dimensional material functional devices enabled by direct laser fabrication. <i>Frontiers of Optoelectronics</i> , 2018, 11, 2-22.	3.7	28
152	Engineering the carrier dynamics of $g-C_3N_4$ by rolling up planar sheets into nanotubes via ultrasonic cavitation. <i>Nanoscale</i> , 2018, 10, 22448-22455.	5.6	7
153	Anisotropic Third-Order Nonlinearity in Pristine and Lithium Hydride Intercalated Black Phosphorus. <i>ACS Photonics</i> , 2018, 5, 4969-4977.	6.6	40
154	Topology-Optimized 3D Photonic Structures with Maximal Omnidirectional Bandgaps. <i>Advanced Theory and Simulations</i> , 2018, 1, 1800122.	2.8	10
155	On-Demand Design of Tunable Complete Photonic Band Gaps based on Bloch Mode Analysis. <i>Scientific Reports</i> , 2018, 8, 14283.	3.3	21
156	Invited Article: Enhanced four-wave mixing in waveguides integrated with graphene oxide. <i>APL Photonics</i> , 2018, 3, .	5.7	114
157	Illumination-Induced Halide Segregation in Gradient Bandgap Mixed-Halide Perovskite Nanoplatelets. <i>Advanced Optical Materials</i> , 2018, 6, 1801107.	7.3	30
158	Recent advances on optical vortex generation. <i>Nanophotonics</i> , 2018, 7, 1533-1556.	6.0	238
159	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
160	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
161	A Biomimetic Supramolecular Approach for Charge Transfer between Donor and Acceptor Chromophores with Aggregation-Induced Emission. <i>Chemistry - A European Journal</i> , 2018, 24, 14668-14678.	3.3	17
162	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

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163	Role of Surface Recombination in Halide Perovskite Nanoplatelets. ACS Applied Materials & Interfaces, 2018, 10, 31586-31593.	8.0	41
164	Slow Response of Carrier Dynamics in Perovskite Interface upon Illumination. ACS Applied Materials & Interfaces, 2018, 10, 31452-31461.	8.0	47
165	Beyond Phototherapy: Recent Advances in Multifunctional Fluorescent Nanoparticles for Light-Triggered Tumor Theranostics. Advanced Functional Materials, 2018, 28, 1803733.	14.9	54
166	Five-fold plasmonic Fano resonances with giant bisignate circular dichroism. Nanoscale, 2018, 10, 16630-16637.	5.6	20
167	Towards enhanced energy density of graphene-based supercapacitors: Current status, approaches, and future directions. Journal of Power Sources, 2018, 396, 182-206.	7.8	111
168	An accurate design of graphene oxide ultrathin flat lens based on Rayleigh-Sommerfeld theory. Opto-Electronic Advances, 2018, 1, 18001201-18001207.	13.3	51
169	Enhanced third-order optical nonlinearity of flexibly synthesized h-BN film via localized laser oxidation. , 2018, , .		0
170	High-speed silicon-organic hybrid modulator enabled by sub-wavelength grating waveguide ring resonator. , 2018, , .		1
171	Enhanced four-wave mixing in graphene oxide coated waveguides. , 2018, , .		0
172	Front Matter: Volume 10616. , 2018, , .		0
173	High-speed modulator based on electro-optic polymer infiltrated subwavelength grating waveguide ring resonator. , 2018, , .		0
174	Laser trimming of graphene oxide for functional photonic applications. Journal Physics D: Applied Physics, 2017, 50, 074003.	2.8	37
175	Chemical Stabilization of 1T [±] Phase Transition Metal Dichalcogenides with Giant Optical Kerr Nonlinearity. Journal of the American Chemical Society, 2017, 139, 2504-2511.	13.7	171
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