

Zhi-Bo Liu

List of Publications by Year in descending order

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190
papers

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docs citations

190
times ranked

13661
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-area high-quality 2D ultrathin Mo ₂ C superconducting crystals. <i>Nature Materials</i> , 2015, 14, 1135-1141.	13.3	1,045
2	A Graphene Hybrid Material Covalently Functionalized with Porphyrin: Synthesis and Optical Limiting Property. <i>Advanced Materials</i> , 2009, 21, 1275-1279.	11.1	1,007
3	Chemical vapor deposition of layered two-dimensional MoSi ₂ N ₄ materials. <i>Science</i> , 2020, 369, 670-674.	6.0	556
4	Porphyrin and Fullerene Covalently Functionalized Graphene Hybrid Materials with Large Nonlinear Optical Properties. <i>Journal of Physical Chemistry B</i> , 2009, 113, 9681-9686.	1.2	435
5	Large-area synthesis of high-quality and uniform monolayer WS ₂ on reusable Au foils. <i>Nature Communications</i> , 2015, 6, 8569.	5.8	336
6	Scalable Clean Exfoliation of High-Quality Few-Layer Black Phosphorus for a Flexible Lithium Ion Battery. <i>Advanced Materials</i> , 2016, 28, 510-517.	11.1	336
7	Superhigh Electromagnetic Interference Shielding of Ultrathin Aligned Pristine Graphene Nanosheets Film. <i>Advanced Materials</i> , 2020, 32, e1907411.	11.1	310
8	Nonlinear optical properties of graphene oxide in nanosecond and picosecond regimes. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	304
9	Phosphorene as a Polysulfide Immobilizer and Catalyst in High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017, 29, 1602734.	11.1	289
10	Synthesis, characterization and optical limiting property of covalently oligothiophene-functionalized graphene material. <i>Carbon</i> , 2009, 47, 3113-3121.	5.4	218
11	Covalently porphyrin-functionalized single-walled carbon nanotubes: a novel photoactive and optical limiting donor-acceptor nanohybrid. <i>Journal of Materials Chemistry</i> , 2006, 16, 3021-3030.	6.7	211
12	Macroscopic and direct light propulsion of bulk graphene material. <i>Nature Photonics</i> , 2015, 9, 471-476.	15.6	192
13	Synergistic Effect of Aligned Graphene Nanosheets in Graphene Foam for High-Performance Thermally Conductive Composites. <i>Advanced Materials</i> , 2019, 31, e1900199.	11.1	173
14	Ultrafast Dynamics and Nonlinear Optical Responses from sp ² - and sp ³ -Hybridized Domains in Graphene Oxide. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1972-1977.	2.1	166
15	Enhanced Optical Limiting Effects in Porphyrin-Covalently Functionalized Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2008, 20, 511-515.	11.1	164
16	Tailoring the thermal and electrical transport properties of graphene films by grain size engineering. <i>Nature Communications</i> , 2017, 8, 14486.	5.8	154
17	Passively mode-locked fiber laser based on a hollow-core photonic crystal fiber filled with few-layered graphene oxide solution. <i>Optics Letters</i> , 2011, 36, 3024.	1.7	146
18	Nonlinear optical properties of graphene-based materials. <i>Science Bulletin</i> , 2012, 57, 2971-2982.	1.7	144

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19	Ultrafast carrier dynamics and saturable absorption of solution-processable few-layered graphene oxide. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	143
20	High-quality and efficient transfer of large-area graphene films onto different substrates. <i>Carbon</i> , 2013, 56, 271-278.	5.4	143
21	Ultrafast Growth of High-Quality Monolayer WSe_2 on Au. <i>Advanced Materials</i> , 2017, 29, 1700990.	11.1	139
22	Stacking of 2D Materials. <i>Advanced Functional Materials</i> , 2021, 31, 2007810.	7.8	123
23	CdPS_3 nanosheets-based membrane with high proton conductivity enabled by Cd vacancies. <i>Science</i> , 2020, 370, 596-600.	6.0	120
24	Ultrasensitive Flow Sensing of a Single Cell Using Graphene-Based Optical Sensors. <i>Nano Letters</i> , 2014, 14, 3563-3569.	4.5	116
25	Strongly Coupled High-Quality Graphene/2D Superconducting Mo_2C Vertical Heterostructures with Aligned Orientation. <i>ACS Nano</i> , 2017, 11, 5906-5914.	7.3	110
26	NiPS_3 Nanosheet-Graphene Composites as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Nano</i> , 2018, 12, 5297-5305.	7.3	104
27	Unique Domain Structure of Two-Dimensional $\pm\text{-Mo}_2\text{C}$ Superconducting Crystals. <i>Nano Letters</i> , 2016, 16, 4243-4250.	4.5	101
28	Transient thermal effect, nonlinear refraction and nonlinear absorption properties of graphene oxide sheets in dispersion. <i>Optics Express</i> , 2013, 21, 7511.	1.7	99
29	Wavelength-tunable, passively mode-locked fiber laser based on graphene and chirped fiber Bragg grating. <i>Optics Letters</i> , 2012, 37, 2394.	1.7	95
30	Polarization-dependent optical absorption of graphene under total internal reflection. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	95
31	Nonlinear optical and optical limiting properties of graphene oxide- Fe_3O_4 hybrid material. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 075202.	1.0	93
32	Fast Growth and Broad Applications of 25- μm Uniform Graphene Glass. <i>Advanced Materials</i> , 2017, 29, 1603428.	11.1	90
33	Recycling spent $\text{LiNi}_{1-x-y}\text{Mn}_x\text{Co}_y\text{O}_2$ cathodes to bifunctional NiMnCo catalysts for zinc-air batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2202202119.	3.3	89
34	High-Precision Twist-Controlled Bilayer and Trilayer Graphene. <i>Advanced Materials</i> , 2016, 28, 2563-2570.	11.1	87
35	Broadband all-optical modulation using a graphene-covered-microfiber. <i>Laser Physics Letters</i> , 2013, 10, 065901.	0.6	86
36	Experimental observation of a giant Goos-Hänchen shift in graphene using a beam splitter scanning method. <i>Optics Letters</i> , 2014, 39, 5574.	1.7	81

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37	Photoconductivity of Bulk-Film-Based Graphene Sheets. <i>Small</i> , 2009, 5, 1682-1687.	5.2	80
38	Sensitive Real-Time Monitoring of Refractive Indexes Using a Novel Graphene-Based Optical Sensor. <i>Scientific Reports</i> , 2012, 2, 908.	1.6	72
39	Magnetotransport Properties in High-Quality Ultrathin Two-Dimensional Superconducting MoS_2C Crystals. <i>ACS Nano</i> , 2016, 10, 4504-4510.	7.3	69
40	Passively Mode-Locked Fiber Laser Based on Reduced Graphene Oxide on Microfiber for Ultra-Wide-Band Doublet Pulse Generation. <i>Journal of Lightwave Technology</i> , 2012, 30, 984-989.	2.7	67
41	Optical properties of chemical vapor deposition-grown PtSe_2 characterized by spectroscopic ellipsometry. <i>2D Materials</i> , 2019, 6, 035011.	2.0	58
42	Enhanced nonlinear optical properties of graphene-oligothiophene hybrid material. <i>Optics Express</i> , 2009, 17, 23959.	1.7	57
43	Second Time-Scale Synthesis of High-Quality Graphite Films by Quenching for Effective Electromagnetic Interference Shielding. <i>ACS Nano</i> , 2020, 14, 3121-3128.	7.3	57
44	Toward All-Carbon Electronics: Fabrication of Graphene-Based Flexible Electronic Circuits and Memory Cards Using Maskless Laser Direct Writing. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3310-3317.	4.0	55
45	Solution-processable graphene mesh transparent electrodes for organic solar cells. <i>Nano Research</i> , 2013, 6, 478-484.	5.8	53
46	Tunable and switchable dual-wavelength single polarization narrow linewidth SLM erbium-doped fiber laser based on a PM-CMFBG filter. <i>Optics Express</i> , 2014, 22, 22528.	1.7	53
47	Black-Phosphorus-Based Orientation-Induced Diodes. <i>Advanced Materials</i> , 2018, 30, 1704653.	11.1	53
48	Evanescent-wave photoacoustic spectroscopy with optical micro/nano fibers. <i>Optics Letters</i> , 2012, 37, 214.	1.7	52
49	Nonlinear optical and optical limiting properties of graphene hybrids covalently functionalized by phthalocyanine. <i>Chemical Physics Letters</i> , 2013, 577, 62-67.	1.2	51
50	Investigation on a compact in-line multimode-single-mode-multimode fiber structure. <i>Optics and Laser Technology</i> , 2016, 80, 16-21.	2.2	50
51	Study on Z-scan characteristics for a large nonlinear phase shift. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 1911.	0.9	49
52	Broadband wavelength tunable mode-locked thulium-doped fiber laser operating in the $2\frac{1}{4}\mu\text{m}$ region by using a graphene saturable absorber on microfiber. <i>Laser Physics Letters</i> , 2016, 13, 065105.	0.6	48
53	A Flexible Carbon Nanotube Sensor-Memory Device. <i>Advanced Materials</i> , 2020, 32, e1907288.	11.1	48
54	Actively manipulation of operation states in passively pulsed fiber lasers by using graphene saturable absorber on microfiber. <i>Optics Express</i> , 2013, 21, 14859.	1.7	44

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55	Constructing a Metallic/Semiconducting TaB ₂ /Ta ₂ O ₅ Core/Shell Heterostructure for Photocatalytic Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2014, 4, 1400057.	10.2	44
56	Reduced graphene oxide-based optical sensor for detecting specific protein. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 142-148.	4.0	43
57	Ultrafast growth of nanocrystalline graphene films by quenching and grain-size-dependent strength and bandgap opening. <i>Nature Communications</i> , 2019, 10, 4854.	5.8	43
58	Interlayer epitaxy of wafer-scale high-quality uniform AB-stacked bilayer graphene films on liquid Pt ₃ Si/solid Pt. <i>Nature Communications</i> , 2019, 10, 2809.	5.8	43
59	Increased optical nonlinearities of multi-walled carbon nanotubes covalently functionalized with porphyrin. <i>Carbon</i> , 2013, 51, 419-426.	5.4	38
60	Tunable graphene saturable absorber with cross absorption modulation for mode-locking in fiber laser. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	38
61	Preparation of high-quality graphene using triggered microwave reduction under an air atmosphere. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1829-1835.	2.7	36
62	Polarization dependence of Z-scan measurement: theory and experiment. <i>Optics Express</i> , 2009, 17, 6397.	1.7	35
63	Saturable Absorber Based on Graphene-Covered-Microfiber. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 1392-1394.	1.3	35
64	Flexible graphene saturable absorber on two-layer structure for tunable mode-locked soliton fiber laser. <i>Optics Express</i> , 2014, 22, 10239.	1.7	33
65	Fabrication of multiple nanopores in a SiN _x membrane via controlled breakdown. <i>Scientific Reports</i> , 2018, 8, 1234.	1.6	33
66	Palladium nanoparticles supported on graphene acid: a stable and eco-friendly bifunctional C=C homo- and cross-coupling catalyst. <i>Green Chemistry</i> , 2019, 21, 5238-5247.	4.6	33
67	Enhanced light transmission through a single subwavelength aperture in layered films consisting of metal and dielectric. <i>Optics Express</i> , 2005, 13, 9071.	1.7	32
68	Study on Nonlinear Spectroscopy of Tetraphenylporphyrin and Dithiaporphyrin Diacids. <i>Journal of Physical Chemistry B</i> , 2007, 111, 14136-14142.	1.2	32
69	Third-order nonlinear susceptibility tensor elements of CS ₂ at femtosecond time scale. <i>Optics Express</i> , 2011, 19, 5559.	1.7	32
70	Stacking of Exfoliated 2D Materials: A Review. <i>Chinese Journal of Chemistry</i> , 2020, 38, 981-995.	2.6	30
71	Synthesis, Characterization and Nonlinear Optical Property of Graphene-C ₆₀ Hybrid. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5752-5756.	0.9	29
72	Photovoltage Enhancement in Twisted Bilayer Graphene Using Surface Plasmon Resonance. <i>Advanced Optical Materials</i> , 2016, 4, 1703-1710.	3.6	29

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73	Bulk functionalization of graphene using diazonium compounds and amide reaction. Applied Surface Science, 2013, 280, 914-919.	3.1	28
74	Temperature-Independent and Strain-Independent Twist Sensor Based on Structured PM-CFBG. IEEE Photonics Technology Letters, 2014, 26, 1565-1568.	1.3	28
75	Phase transition and in situ construction of lateral heterostructure of 2D superconducting MoS_2/C with sharp interface by electron beam irradiation. Nanoscale, 2017, 9, 7501-7507.	2.8	28
76	Analytic solutions to Z-scan characteristics of thick media with nonlinear refraction and nonlinear absorption. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 63.	0.9	27
77	Fabrication, optical properties, and applications of twisted two-dimensional materials. Nanophotonics, 2020, 9, 1717-1742.	2.9	27
78	Optical limiting effect and ultrafast saturable absorption in a solid PMMA composite containing porphyrin-covalently functionalized multi-walled carbon nanotubes. Optics Express, 2013, 21, 25277.	1.7	26
79	High Yield Controlled Synthesis of Nano-Graphene Oxide by Water Electrolytic Oxidation of Glassy Carbon for Metal-Free Catalysis. ACS Nano, 2019, 13, 9482-9490.	7.3	25
80	Nonlinear ellipse rotation modified Z-scan measurements of third-order nonlinear susceptibility tensor. Optics Express, 2007, 15, 13351.	1.7	24
81	Carrier Engineering in Polarization-Sensitive Black Phosphorus van der Waals Junctions. ACS Applied Materials & Interfaces, 2018, 10, 35615-35622.	4.0	24
82	Flexible alteration of optical nonlinearities of iodine charge-transfer complexes in solutions. Optics Letters, 2004, 29, 1099.	1.7	23
83	Nonlinear Absorption and Nonlinear Refraction of Self-Assembled Porphyrins. Journal of Physical Chemistry B, 2006, 110, 15140-15145.	1.2	23
84	In situ synthesis and third-order nonlinear optical properties of CdS/PVP nanocomposite films. Journal Physics D: Applied Physics, 2009, 42, 075402.	1.3	23
85	Analysis of Z-scan of thick media with high-order nonlinearity by variational approach. Optics Communications, 2003, 219, 411-419.	1.0	22
86	Nonlinear absorption and optical limiting properties of carbon disulfide in a short-wavelength region. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 1101.	0.9	22
87	Polarization-Dependent Photocurrent of Black Phosphorus/Rhenium Disulfide Heterojunctions. Advanced Materials Interfaces, 2018, 5, 1800960.	1.9	22
88	The selective transfer of patterned graphene. Scientific Reports, 2013, 3, 3216.	1.6	21
89	Chemically modified graphene films for high-performance optical NO_2 sensors. Analyst, The, 2016, 141, 4725-4732.	1.7	21
90	Layer-Stacking, Defects, and Robust Superconductivity on the Mo-Terminated Surface of Ultrathin MoS_2/C Flakes Grown by CVD. Nano Letters, 2019, 19, 3327-3335.	4.5	21

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91	Thickness-dependent ultrafast nonlinear absorption properties of PtSe ₂ films with both semiconducting and semimetallic phases. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	21
92	Evolution of anisotropic-to-isotropic photoexcited carrier distribution in graphene. <i>Physical Review B</i> , 2014, 90, .	1.1	20
93	Direct patterning on reduced graphene oxide nanosheets using femtosecond laser pulses. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 085601.	1.0	18
94	Actively Q-switched ytterbium-doped fiber laser by an all-optical Q-switcher based on graphene saturable absorber. <i>Optics Express</i> , 2015, 23, 21490.	1.7	18
95	Nonlinear optical and optical limiting properties of fullerene, multi-walled carbon nanotubes, graphene and their derivatives with oxygen-containing functional groups. <i>Journal of Optics (United Kingdom)</i> 11 0784314	1.0	18
96	Ultra-high sensitivity, multi-parameter monitoring of dynamical gas parameters using a reduced graphene oxide microcavity. <i>Sensors and Actuators B: Chemical</i> , 2016, 235, 474-480.	4.0	18
97	Modulation of photothermal anisotropy using black phosphorus/rhenium diselenide heterostructures. <i>Nanoscale</i> , 2018, 10, 10844-10849.	2.8	18
98	Laser-assisted two dimensional material electronic and optoelectronic devices. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2599-2619.	2.7	18
99	Accurate layers determination of graphene on transparent substrate based on polarization-sensitive absorption effect. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	17
100	Ultrafast nonlinear absorption and carrier relaxation in ReS ₂ and ReSe ₂ films. <i>Journal of Applied Physics</i> , 2019, 125, 173105.	1.1	17
101	Nonlinear optical properties of hydroxyl groups modified multi-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2010, 494, 75-79.	1.2	16
102	Transparent and flexible multi-layer films with graphene recording layers for optical data storage. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	16
103	Substrate effect on the photoluminescence of chemical vapor deposition transferred monolayer WSe ₂ . <i>Journal of Applied Physics</i> , 2020, 128, 043101.	1.1	16
104	Accurate determination of nonlinear refraction and nonlinear absorption by a single Z-scan method. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004, 21, 349.	0.9	15
105	Analysis on the origin of the ultrafast optical nonlinearity of carbon disulfide around 800 nm. <i>Optics Express</i> , 2010, 18, 26169.	1.7	15
106	A general method for large-area and broadband enhancing photoresponsivity in graphene photodetectors. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	15
107	Variational analysis of z scan of thick medium with an elliptic Gaussian beam. <i>Applied Optics</i> , 2003, 42, 2219.	2.1	14
108	Local one-dimensional approximation for fast simulation of Z-scan measurements with an arbitrary beam. <i>Applied Optics</i> , 2004, 43, 4408.	2.1	14

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109	Effects of metallization and bromination on nonlinear optical properties of diphenylporphyrins. Optics Communications, 2008, 281, 776-781.	1.0	14
110	Discriminating thermal effect in nonlinear-ellipse-rotation-modified Z-scan measurements. Optics Letters, 2011, 36, 2086.	1.7	14
111	Stable single-polarization single-longitudinal-mode linear cavity erbium-doped fiber laser based on structured chirped fiber Bragg grating. Applied Optics, 2015, 54, 6.	0.9	14
112	Polarization dependence of optical pump-induced change of graphene extinction coefficient. Optical Materials Express, 2015, 5, 1550.	1.6	14
113	Quantum generative adversarial networks with multiple superconducting qubits. Npj Quantum Information, 2021, 7, .	2.8	14
114	Synthesis and crystal structure of 21,23-dithiaporphyrins and their nonlinear optical activities. Tetrahedron Letters, 2007, 48, 5687-5691.	0.7	13
115	Laser Writable Multifunctional van der Waals Heterostructures. Small, 2020, 16, e2003593.	5.2	13
116	Two-photon absorption and non-resonant electronic nonlinearities of layered semiconductor TlGaS ₂ . Optics Express, 2018, 26, 33895.	1.7	13
117	Enhanced reverse saturable absorption and optical limiting properties in a protonated water-soluble porphyrin. Journal of Optics (United Kingdom), 2013, 15, 055206.	1.0	12
118	Sign of differential reflection and transmission in pump-probe spectroscopy of graphene on dielectric substrate. Photonics Research, 2015, 3, A1.	3.4	12
119	Back-Reflected Performance-Enhanced Flexible Perovskite Photodetectors through Substrate Texturing with Femtosecond Laser. ACS Applied Materials & Interfaces, 2020, 12, 26614-26623.	4.0	12
120	Large optical nonlinearities of new organophosphorus fullerene derivatives. Applied Optics, 2003, 42, 7072.	2.1	11
121	Pulse-Width Tuning in a Passively Mode-Locked Fiber Laser With Graphene Saturable Absorber. IEEE Photonics Technology Letters, 2014, 26, 360-363.	1.3	11
122	In-fiber liquid-level probe based on Michelson interferometer via dual-mode elliptical multilayer-core fiber. Journal of Modern Optics, 0, , 1-6.	0.6	11
123	Characteristics of a high extinction ratio comb-filter based on LP01 and LP11 even mode elliptical multilayer-core fibers. Optical Fiber Technology, 2015, 21, 103-109.	1.4	10
124	Ultrafast Transition of Nonuniform Graphene to High-Quality Uniform Monolayer Films on Liquid Cu. ACS Applied Materials & Interfaces, 2019, 11, 17629-17636.	4.0	10
125	A gate-tunable symmetric bipolar junction transistor fabricated via femtosecond laser processing. Nanoscale Advances, 2020, 2, 1733-1740.	2.2	10
126	Controllable Doping of Transition Metal Dichalcogenides by Organic Solvents. Advanced Electronic Materials, 2020, 6, 1901230.	2.6	10

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127	Characteristics of co-existence of third-order and transient thermally induced optical nonlinearities in nanosecond regime. Optics Communications, 2005, 245, 377-382.	1.0	9
128	Switchable Dual-Wavelength SLM Fiber Laser Using Asymmetric PMFBG Fabry-Pérot Cavities. IEEE Photonics Technology Letters, 2015, 27, 1281-1284.	1.3	9
129	Visualizing Photothermal Anisotropy in Black Phosphorus by Total Internal Reflection Pump-Probe Technique. Advanced Materials Interfaces, 2018, 5, 1701605.	1.9	9
130	High-accuracy measurement of the crystalline orientation of anisotropic two-dimensional materials using photothermal detection. Journal of Materials Chemistry C, 2018, 6, 5849-5856.	2.7	9
131	Temperature-tunable optical properties and carrier relaxation of CuInP_2S_6 crystals under ferroelectric-paraelectric phase transition. Journal of Materials Chemistry C, 2022, 10, 696-706.	2.7	9
132	Analysis of Z-scan of thick media with nonlinear refraction and absorption for elliptic Gaussian beam by variational approach. Optics Communications, 2004, 237, 221-227.	1.0	8
133	Evolutions of polarization and nonlinearities in an isotropic nonlinear medium. Optics Express, 2008, 16, 8144.	1.7	8
134	Large tunable optical absorption of CVD graphene under total internal reflection by strain engineering. Nanotechnology, 2014, 25, 455707.	1.3	8
135	Reduced graphene oxide nanoshells for flexible and stretchable conductors. Nanotechnology, 2016, 27, 095301.	1.3	8
136	Photoinduced Orientation-Dependent Interlayer Carrier Transportation in Cross-Stacked Black Phosphorus van der Waals Junctions. Advanced Materials Interfaces, 2018, 5, 1800964.	1.9	8
137	Synthesis, Photophysical and Electrochemical Properties of Amide-Linked Phthalocyanine-Fullerene Dyad. Chinese Journal of Chemistry, 2012, 30, 1766-1770.	2.6	7
138	Reply to 'Do thermal effects cause the propulsion of bulk graphene material?'. Nature Photonics, 2016, 10, 139-141.	15.6	7
139	Stable dual-wavelength laser combined with gain flattening ML-FMF Bragg grating filter. Optics Communications, 2016, 358, 1-5.	1.0	7
140	Anisotropic imaging for the highly efficient crystal orientation determination of two-dimensional materials. Journal of Materials Chemistry C, 2019, 7, 5945-5953.	2.7	7
141	Superhigh Uniform Magnetic Cr Substitution in a 2D Mo_2C Superconductor for a Macroscopic Scale Kondo Effect. Advanced Materials, 2020, 32, 2002825.	11.1	7
142	Tunable Optical Rotation in Twisted Black Phosphorus. Journal of Physical Chemistry Letters, 2021, 12, 4755-4761.	2.1	7
143	Magnetic Doping Induced Superconductivity-to-Incommensurate Density Waves Transition in a 2D Ultrathin Cr-Doped Mo_2C Crystal. ACS Nano, 2021, 15, 14938-14946.	7.3	7
144	Thickness-dependent ultrafast charge-carrier dynamics and coherent acoustic phonon oscillations in mechanically exfoliated PdSe_2 flakes. Physical Chemistry Chemical Physics, 2021, 23, 20666-20674.	1.3	7

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145	Engineering Graphene Grain Boundaries for Plasmonic Multi-Excitation and Hotspots. ACS Nano, 2022, 16, 9041-9048.	7.3	7
146	Comparison of the solutions from a novel variational method with numerical results for the study of beam propagation in a Kerr medium with nonlinear absorption. Optics Letters, 2003, 28, 722.	1.7	6
147	Polarization characteristics of nonlinear refraction and nonlinear scattering in several solvents. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2721.	0.9	6
148	Polarization dependence of graphene transient optical response: interplay between incident direction and anisotropic distribution of nonequilibrium carriers. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 218.	0.9	6
149	Tunneling devices based on graphene/black phosphorus van der Waals heterostructures. Materials Research Express, 2020, 7, 016310.	0.8	6
150	Method for measurements of second-order nonlinear optical coefficient based on Z-scan. Optics Communications, 2007, 274, 213-217.	1.0	5
151	Modified elliptically polarized light Z-scan method for studying third-order nonlinear susceptibility components. Optics Express, 2010, 18, 10270.	1.7	5
152	Single-Frequency and Single-Polarization DFB Fiber Laser Based on Tapered FBG and Self-Injection Locking. IEEE Photonics Journal, 2015, 7, 1-9.	1.0	5
153	Making transient optical reflection of graphene polarization dependent. Optics Express, 2015, 23, 24177.	1.7	5
154	Microshell Arrays Enhanced Sensitivity in Detection of Specific Antibody for Reduced Graphene Oxide Optical Sensor. Sensors, 2017, 17, 221.	2.1	5
155	Transport Properties of Topological Semimetal Tungsten Carbide in the 2D Limit. Advanced Electronic Materials, 2019, 5, 1800839.	2.6	5
156	Photoresponse in a Strain-Induced Graphene Wrinkle Superlattice. Journal of Physical Chemistry Letters, 2020, 11, 5059-5067.	2.1	5
157	Critical Strain-Induced Photoresponse in Folded Graphene Superlattices. ACS Applied Materials & Interfaces, 2021, 13, 21573-21581.	4.0	5
158	Ultrafast Photocarrier Dynamics and Nonlinear Optical Absorption of a Layered Quaternary AgInP ₂ S ₆ Crystal. Journal of Physical Chemistry C, 2022, 126, 6837-6846.	1.5	5
159	Active tuning of nonlinear absorption in a supramolecular zinc diphenylporphyrin-pyridine system. Optics Express, 2006, 14, 2770.	1.7	4
160	Characteristics of HE ₁₁ -HE ₂₁ mode elliptical multilayer-core fiber with low nonlinearity. Optical Engineering, 2014, 53, 105104.	0.5	4
161	Measuring third-order susceptibility tensor elements of monolayer MoS ₂ using the optical Kerr effect method. Applied Physics Letters, 2018, 113, 051901.	1.5	4
162	Dynamics of the passive synchronisation of erbium- and ytterbium-doped fibre Q-switched lasers with a common graphene saturable absorber. Laser Physics, 2019, 29, 085101.	0.6	4

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163	Photothermal Transport Imaging and Thermal Management of 2D Materials. <i>Small Methods</i> , 2021, 5, 2101302.	4.6	4
164	Tuning the Thermal Transport of Hexagonal Boron Nitride/Reduced Graphene Oxide Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 22626-22633.	4.0	4
165	Coordinate transformation and coordinate mapping for numerical simulation of Z-scan measurements. <i>Optics Communications</i> , 2005, 244, 71-77.	1.0	3
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