

Zhipei Sun

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127
papers

12,693
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47
h-index

112
g-index

138
ext. papers

15,003
ext. citations

11.9
avg, IF

6.52
L-index

#	Paper	IF	Citations
127	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015 , 7, 4598-810	7.7	2015
126	Graphene mode-locked ultrafast laser. <i>ACS Nano</i> , 2010 , 4, 803-10	16.7	1547
125	Optical modulators with 2D layered materials. <i>Nature Photonics</i> , 2016 , 10, 227-238	33.9	910
124	Inkjet-printed graphene electronics. <i>ACS Nano</i> , 2012 , 6, 2992-3006	16.7	864
123	Production and processing of graphene and 2d crystals. <i>Materials Today</i> , 2012 , 15, 564-589	21.8	745
122	Nanotube Polymer Composites for Ultrafast Photonics. <i>Advanced Materials</i> , 2009 , 21, 3874-3899	24	659
121	Nonlinear Optics with 2D Layered Materials. <i>Advanced Materials</i> , 2018 , 30, e1705963	24	309
120	A stable, wideband tunable, near transform-limited, graphene-mode-locked, ultrafast laser. <i>Nano Research</i> , 2010 , 3, 653-660	10	295
119	Versatile multi-wavelength ultrafast fiber laser mode-locked by carbon nanotubes. <i>Scientific Reports</i> , 2013 , 3, 2718	4.9	260
118	Black phosphorus ink formulation for inkjet printing of optoelectronics and photonics. <i>Nature Communications</i> , 2017 , 8, 278	17.4	225
117	Polarization and Thickness Dependent Absorption Properties of Black Phosphorus: New Saturable Absorber for Ultrafast Pulse Generation. <i>Scientific Reports</i> , 2015 , 5, 15899	4.9	225
116	Two-dimensional material-based saturable absorbers: towards compact visible-wavelength all-fiber pulsed lasers. <i>Nanoscale</i> , 2016 , 8, 1066-72	7.7	209
115	Vapour-liquid-solid growth of monolayer MoS nanoribbons. <i>Nature Materials</i> , 2018 , 17, 535-542	27	185
114	Far-field nanoscale infrared spectroscopy of vibrational fingerprints of molecules with graphene plasmons. <i>Nature Communications</i> , 2016 , 7, 12334	17.4	174
113	Solution processing of graphene, topological insulators and other 2d crystals for ultrafast photonics. <i>Optical Materials Express</i> , 2014 , 4, 63	2.6	164
112	Single-nanowire spectrometers. <i>Science</i> , 2019 , 365, 1017-1020	33.3	130
111	Carbon Nanotube Polycarbonate Composites for Ultrafast Lasers. <i>Advanced Materials</i> , 2008 , 20, 4040-4043	24	129

110	Ultra-strong nonlinear optical processes and trigonal warping in MoS layers. <i>Nature Communications</i> , 2017 , 8, 893	17.4	123
109	Ultrafast stretched-pulse fiber laser mode-locked by carbon nanotubes. <i>Nano Research</i> , 2010 , 3, 404-411	110	111
108	Optical Waveplates Based on Birefringence of Anisotropic Two-Dimensional Layered Materials. <i>ACS Photonics</i> , 2017 , 4, 3023-3030	6.3	110
107	Large-area tungsten disulfide for ultrafast photonics. <i>Nanoscale</i> , 2017 , 9, 1871-1877	7.7	104
106	Inkjet Printed Large-Area Flexible Few-Layer Graphene Thermoelectrics. <i>Advanced Functional Materials</i> , 2018 , 28, 1800480	15.6	101
105	1.5 GHz picosecond pulse generation from a monolithic waveguide laser with a graphene-film saturable output coupler. <i>Optics Express</i> , 2013 , 21, 7943-50	3.3	98
104	Rapid visualization of grain boundaries in monolayer MoS by multiphoton microscopy. <i>Nature Communications</i> , 2017 , 8, 15714	17.4	93
103	Gas identification with graphene plasmons. <i>Nature Communications</i> , 2019 , 10, 1131	17.4	91
102	Nanomaterial-Based Plasmon-Enhanced Infrared Spectroscopy. <i>Advanced Materials</i> , 2018 , 30, e1704896	24	88
101	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014 , 20, 411-415	3.8	86
100	Monitoring Local Strain Vector in Atomic-Layered MoSe by Second-Harmonic Generation. <i>Nano Letters</i> , 2017 , 17, 7539-7543	11.5	80
99	Black phosphorus polycarbonate polymer composite for pulsed fibre lasers. <i>Applied Materials Today</i> , 2016 , 4, 17-23	6.6	74
98	High-power graphene mode-locked Tm/Ho co-doped fiber laser with evanescent field interaction. <i>Scientific Reports</i> , 2015 , 5, 16624	4.9	73
97	Graphene photonic crystal fibre with strong and tunable light-matter interaction. <i>Nature Photonics</i> , 2019 , 13, 754-759	33.9	69
96	152 fs nanotube-mode-locked thulium-doped all-fiber laser. <i>Scientific Reports</i> , 2016 , 6, 28885	4.9	66
95	Single-wall carbon nanotubes and graphene oxide-based saturable absorbers for low phase noise mode-locked fiber lasers. <i>Scientific Reports</i> , 2016 , 6, 25266	4.9	62
94	Far-Field Spectroscopy and Near-Field Optical Imaging of Coupled Plasmon-Phonon Polaritons in 2D van der Waals Heterostructures. <i>Advanced Materials</i> , 2016 , 28, 2931-8	24	61
93	A MoSe ₂ /WSe ₂ Heterojunction-Based Photodetector at Telecommunication Wavelengths. <i>Advanced Functional Materials</i> , 2018 , 28, 1804388	15.6	60

92	Ultrafast all-fiber based cylindrical-vector beam laser. <i>Applied Physics Letters</i> , 2017 , 110, 021107	3.4	58
91	Tuning the nonlinear optical absorption of reduced graphene oxide by chemical reduction. <i>Optics Express</i> , 2014 , 22, 19375-85	3.3	58
90	Ultra-high on-chip optical gain in erbium-based hybrid slot waveguides. <i>Nature Communications</i> , 2019 , 10, 432	17.4	57
89	Precise control of the interlayer twist angle in large scale MoS homostructures. <i>Nature Communications</i> , 2020 , 11, 2153	17.4	55
88	Surface plasmon resonance for characterization of large-area atomic-layer graphene film. <i>Optica</i> , 2016 , 3, 151	8.6	54
87	Double-wall carbon nanotubes for wide-band, ultrafast pulse generation. <i>ACS Nano</i> , 2014 , 8, 4836-47	16.7	54
86	Optical harmonic generation in monolayer group-VI transition metal dichalcogenides. <i>Physical Review B</i> , 2018 , 98,	3.3	53
85	Transition-metal dichalcogenides heterostructure saturable absorbers for ultrafast photonics. <i>Optics Letters</i> , 2017 , 42, 4279-4282	3	51
84	Rapid and Large-Area Characterization of Exfoliated Black Phosphorus Using Third-Harmonic Generation Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1343-1350	6.4	50
83	Probing optical anisotropy of nanometer-thin van der waals microcrystals by near-field imaging. <i>Nature Communications</i> , 2017 , 8, 1471	17.4	50
82	High photoresponsivity and broadband photodetection with a band-engineered WSe/SnSe heterostructure. <i>Nanoscale</i> , 2019 , 11, 3240-3247	7.7	49
81	Engineering symmetry breaking in 2D layered materials. <i>Nature Reviews Physics</i> , 2021 , 3, 193-206	23.6	45
80	Large-area highly crystalline WSe atomic layers for ultrafast pulsed lasers. <i>Optics Express</i> , 2017 , 25, 30029-30034	9.3	44
79	A general ink formulation of 2D crystals for wafer-scale inkjet printing. <i>Science Advances</i> , 2020 , 6, eaba5029	14.3	43
78	Optical fibres with embedded two-dimensional materials for ultrahigh nonlinearity. <i>Nature Nanotechnology</i> , 2020 , 15, 987-991	28.7	37
77	Wavelength and pulse duration tunable ultrafast fiber laser mode-locked with carbon nanotubes. <i>Scientific Reports</i> , 2018 , 8, 2738	4.9	36
76	Lattice Dynamics, Phonon Chirality, and Spin-Phonon Coupling in 2D Itinerant Ferromagnet Fe ₃ GeTe ₂ . <i>Advanced Functional Materials</i> , 2019 , 29, 1904734	15.6	33
75	Pulse dynamics in carbon nanotube mode-locked fiber lasers near zero cavity dispersion. <i>Optics Express</i> , 2015 , 23, 9947-58	3.3	32

74	Nanowire network-based multifunctional all-optical logic gates. <i>Science Advances</i> , 2018 , 4, eaar7954	14.3	30
73	Graphene actively Q-switched lasers. <i>2D Materials</i> , 2017 , 4, 025095	5.9	29
72	Graphene/MoS ₂ /Metal hybrid structures for plasmonic biosensors. <i>Optics Communications</i> , 2018 , 428, 233-239	2	26
71	Carbon Nanotubes as an Ultrafast Emitter with a Narrow Energy Spread at Optical Frequency. <i>Advanced Materials</i> , 2017 , 29, 1701580	24	25
70	Efficient improvement of laser beam quality by coherent combining in an improved Michelson cavity. <i>Optics Letters</i> , 2005 , 30, 1485-7	3	25
69	Efficient All-Optical Plasmonic Modulators with Atomically Thin Van Der Waals Heterostructures. <i>Advanced Materials</i> , 2020 , 32, e1907105	24	24
68	Single-photon sources with quantum dots in III-V nanowires. <i>Nanophotonics</i> , 2019 , 8, 747-769	6.3	23
67	Flexible and Electrically Tunable Plasmons in Graphene-Mica Heterostructures. <i>Advanced Science</i> , 2018 , 5, 1800175	13.6	22
66	Graphene Actively Mode-Locked Lasers. <i>Advanced Functional Materials</i> , 2018 , 28, 1801539	15.6	22
65	Widely tunable picosecond optical parametric generation and amplification in BiB(3)O(6). <i>Optics Express</i> , 2007 , 15, 4139-48	3.3	19
64	Photon-Pair Generation with a 100 nm Thick Carbon Nanotube Film. <i>Advanced Materials</i> , 2017 , 29, 1605978	27.8	18
63	Electrical Control of Interband Resonant Nonlinear Optics in Monolayer MoS. <i>ACS Nano</i> , 2020 , 14, 8442-8448	34.7	18
62	Passively Mode-Locked Radially Polarized Nd-Doped Yttrium Aluminum Garnet Laser Based on Graphene-Based Saturable Absorber. <i>Applied Physics Express</i> , 2013 , 6, 082701	2.4	16
61	High repetition rate Q-switched radially polarized laser with a graphene-based output coupler. <i>Applied Physics Letters</i> , 2014 , 105, 221103	3.4	15
60	Photoresponse of Graphene-Gated Graphene-GaSe Heterojunction Devices. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3895-3902	5.6	13
59	Measurement of complex optical susceptibility for individual carbon nanotubes by elliptically polarized light excitation. <i>Nature Communications</i> , 2018 , 9, 3387	17.4	13
58	High-beam-quality, 5.1J, 108Hz diode-pumped Nd:YAG rod oscillator-amplifier laser system. <i>Optics Communications</i> , 2006 , 266, 39-43	2	13
57	Giant enhancement of optical nonlinearity in two-dimensional materials by multiphoton-excitation resonance energy transfer from quantum dots. <i>Nature Photonics</i> ,	33.9	13

56	Synchronized multi-wavelength soliton fiber laser via intracavity group delay modulation. <i>Nature Communications</i> , 2021 , 12, 6712	17.4	12
55	Chip-integrated van der Waals PN heterojunction photodetector with low dark current and high responsivity.. <i>Light: Science and Applications</i> , 2022 , 11, 101	16.7	12
54	Broadband laser polarization control with aligned carbon nanotubes. <i>Nanoscale</i> , 2015 , 7, 11199-205	7.7	11
53	Passively Mode-Locked Solid-State Laser With Absorption Tunable Graphene Saturable Absorber Mirror. <i>Journal of Lightwave Technology</i> , 2019 , 37, 2927-2931	4	10
52	Ultrafast transient sub-bandgap absorption of monolayer MoS. <i>Light: Science and Applications</i> , 2021 , 10, 27	16.7	10
51	Difference frequency generation in monolayer MoS. <i>Nanoscale</i> , 2020 , 12, 19638-19643	7.7	9
50	Integrated photon-pair sources with nonlinear optics. <i>Applied Physics Reviews</i> , 2021 , 8, 011314	17.3	9
49	Complete structural characterization of single carbon nanotubes by Rayleigh scattering circular dichroism. <i>Nature Nanotechnology</i> , 2021 , 16, 1073-1078	28.7	9
48	Extreme nonlinear strong-field photoemission from carbon nanotubes. <i>Nature Communications</i> , 2019 , 10, 4891	17.4	8
47	Quantum photonics with layered 2D materials. <i>Nature Reviews Physics</i> ,	23.6	8
46	High performance complementary WS devices with hybrid Gr/Ni contacts. <i>Nanoscale</i> , 2020 , 12, 21280-21290	17.9	8
45	Luminescent Gold Nanocluster-Methylcellulose Composite Optical Fibers with Low Attenuation Coefficient and High Photostability. <i>Small</i> , 2021 , 17, e2005205	11	8
44	Single-step chemical vapour deposition of anti-pyramid MoS/WS vertical heterostructures. <i>Nanoscale</i> , 2021 , 13, 4537-4542	7.7	8
43	New Approach for Thickness Determination of Solution-Deposited Graphene Thin Films. <i>ACS Omega</i> , 2017 , 2, 2630-2638	3.9	7
42	Robust circular polarization of indirect Q-K transitions in bilayer 3RWS2. <i>Physical Review B</i> , 2019 , 100,	3.3	7
41	Switchable Photoresponse Mechanisms Implemented in Single van der Waals Semiconductor/Metal Heterostructure.. <i>ACS Nano</i> , 2022 ,	16.7	7
40	Optical Modification of Two-dimensional Materials: Methods and Applications.. <i>Advanced Materials</i> , 2022 , e2110152	24	7
39	Giant Valley Coherence at Room Temperature in 3R WS with Broken Inversion Symmetry. <i>Research</i> , 2019 , 2019, 6494565	7.8	7

38	Broadband Plasmon-Enhanced Four-Wave Mixing in Monolayer MoS. <i>Nano Letters</i> , 2021 , 21, 6321-6327	11.5	7
37	Giant anisotropic photonics in the 1D van der Waals semiconductor fibrous red phosphorus. <i>Nature Communications</i> , 2021 , 12, 4822	17.4	7
36	Strong and tunable interlayer coupling of infrared-active phonons to excitons in van der Waals heterostructures. <i>Physical Review B</i> , 2019 , 99,	3.3	6
35	High-power diode-side-pumped Nd:YAG solid laser mode-locked by CVD graphene. <i>Optics Communications</i> , 2014 , 315, 204-207	2	6
34	Measurement of Nanowire Optical Modes Using Cross-Polarization Microscopy. <i>Scientific Reports</i> , 2017 , 7, 17790	4.9	6
33	Scalable graphene electro-optical modulators for all-fibre pulsed lasers. <i>Nanoscale</i> , 2021 , 13, 9873-9880	7.7	6
32	All-Optical Intensity Modulator by Polarization-Dependent Graphene-Microfiber Waveguide. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-8	1.8	5
31	Soliton Mode-Locked Large-Mode-Area Tm-Doped Fiber Oscillator. <i>IEEE Photonics Technology Letters</i> , 2020 , 32, 117-120	2.2	5
30	Soliton metamorphosis dynamics in ultrafast fiber lasers. <i>Physical Review A</i> , 2021 , 103,	2.6	5
29	Optical Amplification in Hollow-Core Negative-Curvature Fibers Doped with Perovskite CsPbBr Nanocrystals. <i>Nanomaterials</i> , 2019 , 9,	5.4	4
28	Low-Power Continuous-Wave Second Harmonic Generation in Semiconductor Nanowires. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1800126	8.3	4
27	Phase-matching-induced near-chirp-free solitons in normal-dispersion fiber lasers.. <i>Light: Science and Applications</i> , 2022 , 11, 25	16.7	4
26	Ultrafast Lasers: Graphene Actively Mode-Locked Lasers (Adv. Funct. Mater. 28/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870194	15.6	4
25	Carboxyl graphene oxide mode-locked femtosecond fiber laser. <i>Applied Physics Express</i> , 2020 , 13, 082001	1.4	3
24	Nonlinear Optics: Nonlinear Optics with 2D Layered Materials (Adv. Mater. 24/2018). <i>Advanced Materials</i> , 2018 , 30, 1870172	24	3
23	Active/passive Q-switched fiber laser based on graphene microfiber. <i>Applied Physics B: Lasers and Optics</i> , 2019 , 125, 1	1.9	3
22	Carbon Nanotubes: Carbon Nanotubes as an Ultrafast Emitter with a Narrow Energy Spread at Optical Frequency (Adv. Mater. 30/2017). <i>Advanced Materials</i> , 2017 , 29,	24	3
21	Interlayer exciton complexes in bilayer MoS ₂ . <i>Physical Review B</i> , 2022 , 105,	3.3	3

20	Potential for sub-mm long erbium-doped composite silicon waveguide DFB lasers. <i>Scientific Reports</i> , 2020 , 10, 10878	4.9	3
19	Observation of logarithmic Kohn anomaly in monolayer graphene. <i>Physical Review B</i> , 2020 , 102,	3.3	3
18	Giant All-Optical Modulation of Second-Harmonic Generation Mediated by Dark Excitons. <i>ACS Photonics</i> , 2021 , 8, 2320-2328	6.3	3
17	Enhancing SiN Waveguide Nonlinearity with Heterogeneous Integration of Few-Layer WS. <i>ACS Photonics</i> , 2021 , 8, 2713-2721	6.3	3
16	Ultrasensitive Mid-infrared Biosensing in Aqueous Solutions with Graphene Plasmon.. <i>Advanced Materials</i> , 2022 , e2110525	24	3
15	High-Power Femtosecond Pulse Generation From an All-Fiber Er-Doped Chirped Pulse Amplification System. <i>IEEE Photonics Journal</i> , 2020 , 12, 1-8	1.8	2
14	Carbon Nanotubes: Photon-Pair Generation with a 100 nm Thick Carbon Nanotube Film (Adv. Mater. 24/2017). <i>Advanced Materials</i> , 2017 , 29,	24	2
13	Spatially indirect intervalley excitons in bilayer WSe2. <i>Physical Review B</i> , 2022 , 105,	3.3	2
12	Multilayer MoTe2 Field-Effect Transistor at High Temperatures. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100950	4.6	2
11	Tuning of Emission Wavelength of CaS:Eu by Addition of Oxygen Using Atomic Layer Deposition. <i>Materials</i> , 2021 , 14,	3.5	2
10	Deterministic Modification of CVD Grown Monolayer MoS2 with Optical Pulses. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2002119	4.6	2
9	Dual-gated monolayer graphene junctions. <i>Nanoscale Advances</i> , 2021 , 3, 399-406	5.1	2
8	Configuration to improve second-harmonic-generation conversion efficiency. <i>Applied Optics</i> , 2004 , 43, 1174-9	1.7	1
7	Molybdenum Disulfide/Double-Wall Carbon Nanotube Mixed-Dimensional Heterostructures. <i>Advanced Materials Interfaces</i> , 2200193	4.6	1
6	Ultra-high harmonic mode-locking with a micro-fiber knot resonator and Lyot filter.. <i>Optics Express</i> , 2022 , 30, 14770-14781	3.3	1
5	Engineering the Dipole Orientation and Symmetry Breaking with Mixed-Dimensional Heterostructures.. <i>Advanced Science</i> , 2022 , e2200082	13.6	1
4	Raman fingerprints and exciton-phonon coupling in 2D ternary layered semiconductor InSeBr. <i>Applied Physics Letters</i> , 2020 , 116, 163105	3.4	0
3	Probing Electronic States in Monolayer Semiconductors through Static and Transient Third-Harmonic Spectroscopies. <i>Advanced Materials</i> , 2021 , e2107104	24	0

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- 1 Optical Modification of Monolayer MoS₂: Deterministic Modification of CVD Grown Monolayer MoS₂ with Optical Pulses (Adv. Mater. Interfaces 10/2021). *Advanced Materials Interfaces*, **2021**, 8, 2170056 4.6