Fengqiu Wang

List of Publications by Citations

101 papers	7,151 citations	32 h-index	84 g-index
124 ext. papers	8,276 ext. citations	6.7 avg, IF	5.62 L-index

#	Paper	IF	Citations
101	Graphene mode-locked ultrafast laser. *ACS Nano*, **2010**, 4, 803-10	16.7	1547
100	Nanotube–Polymer Composites for Ultrafast Photonics. *Advanced Materials*, **2009**, 21, 3874-3899	24	659
99	Wideband-tuneable, nanotube mode-locked, fibre laser. *Nature Nanotechnology*, **2008**, 3, 738-42	28.7	498
98	Graphene Q-switched, tunable fiber laser. *Applied Physics Letters*, **2011**, 98, 073106	3.4	351
97	Sub 200 fs pulse generation from a graphene mode-locked fiber laser. *Applied Physics Letters*, **2010**, 97, 203106	3.4	344
96	A stable, wideband tunable, near transform-limited, graphene-mode-locked, ultrafast laser. *Nano Research*, **2010**, 3, 653-660	10	295
95	Versatile multi-wavelength ultrafast fiber laser mode-locked by carbon nanotubes. *Scientific Reports*, **2013**, 3, 2718	4.9	260
94	Tm-doped fiber laser mode-locked by graphene-polymer composite. *Optics Express*, **2012**, 20, 25077-84	3.3	233
93	Two-dimensional material-based saturable absorbers: towards compact visible-wavelength all-fiber pulsed lasers. *Nanoscale*, **2016**, 8, 1066-72	7.7	209
92	Planar carbon nanotube-graphene hybrid films for high-performance broadband photodetectors. *Nature Communications*, **2015**, 6, 8589	17.4	197
91	A self-powered high-performance graphene/silicon ultraviolet photodetector with ultra-shallow junction: breaking the limit of silicon?. *Npj 2D Materials and Applications*, **2017**, 1,	8.8	144
90	A light-stimulated synaptic device based on graphene hybrid phototransistor. *2D Materials*, **2017**, 4, 035022	7.7	132
89	Carbon Nanotube Polycarbonate Composites for Ultrafast Lasers. *Advanced Materials*, **2008**, 20, 4040-4043	24	129
88	A robust and tuneable mid-infrared optical switch enabled by bulk Dirac fermions. *Nature Communications*, **2017**, 8, 14111	17.4	126
87	Graphene Q-switched 2.78 μm Er3+-doped fluoride fiber laser. *Optics Letters*, **2013**, 38, 3233-6	3	125
86	Ultrafast stretched-pulse fiber laser mode-locked by carbon nanotubes. *Nano Research*, **2010**, 3, 404-411	10	111
85	74-fs nanotube-mode-locked fiber laser. *Applied Physics Letters*, **2012**, 101, 153107	3.4	101

84	A compact, high power, ultrafast laser mode-locked by carbon nanotubes. *Applied Physics Letters*, **2009**, 95, 253102	3.4	98
83	Graphene Mode-Locked Fiber Laser at 2.8 $mu text{m}$. *IEEE Photonics Technology Letters*, **2016**, 28, 7-10	2.2	92
82	L-band ultrafast fiber laser mode locked by carbon nanotubes. *Applied Physics Letters*, **2008**, 93, 061114	3.4	91
81	Flexible high-repetition-rate ultrafast fiber laser. *Scientific Reports*, **2013**, 3, 3223	4.9	84
80	An Ultrabroadband Mid-Infrared Pulsed Optical Switch Employing Solution-Processed Bismuth Oxyselenide. *Advanced Materials*, **2018**, 30, e1801021	24	68
79	Improving the Performance of Graphene Phototransistors Using a Heterostructure as the Light-Absorbing Layer. *Nano Letters*, **2017**, 17, 6391-6396	11.5	61
78	Carbon Nanotube Mode-Locked Thulium Fiber Laser With 200 nm Tuning Range. *Scientific Reports*, **2017**, 7, 45109	4.9	60
77	Double-wall carbon nanotubes for wide-band, ultrafast pulse generation. *ACS Nano*, **2014**, 8, 4836-47	16.7	54
76	Graphene Hybrid Structures for Integrated and Flexible Optoelectronics. *Advanced Materials*, **2020**, 32, e1902039	24	53
75	Sensitive and Ultrabroadband Phototransistor Based on Two-Dimensional Bi2O2Se Nanosheets. *Advanced Functional Materials*, **2019**, 29, 1905806	15.6	53
74	Graphene-carbon nanotube hybrid films for high-performance flexible photodetectors. *Nano Research*, **2017**, 10, 1880-1887	10	44
73	Three-dimensional Dirac semimetal thin-film absorber for broadband pulse generation in the near-infrared. *Optics Letters*, **2018**, 43, 1503-1506	3	38
72	Generation of ultra-fast laser pulses using nanotube mode-lockers. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 3551-3555	1.3	38
71	Sensitive and Robust Ultraviolet Photodetector Array Based on Self-Assembled Graphene/C Hybrid Films. *ACS Applied Materials & Interfaces*, **2018**, 10, 38326-38333	9.5	33
70	Pulse dynamics in carbon nanotube mode-locked fiber lasers near zero cavity dispersion. *Optics Express*, **2015**, 23, 9947-58	3.3	32
69	Ultrafast saturable absorption in TiS induced by non-equilibrium electrons and the generation of a femtosecond mode-locked laser. *Nanoscale*, **2018**, 10, 9608-9615	7.7	32
68	Broadband hot-carrier dynamics in three-dimensional Dirac semimetal Cd3As2. *Applied Physics Letters*, **2017**, 111, 091101	3.4	32
67	Ultrafast nonlinear photoresponse of single-wall carbon nanotubes: a broadband degenerate investigation. *Nanoscale*, **2016**, 8, 9304-9	7.7	32

66	Tuning the transport behavior of centimeter-scale WTe2 ultrathin films fabricated by pulsed laser deposition. *Applied Physics Letters*, **2017**, 111, 031906	3.4	29
65	Charge transfer at carbon nanotube-graphene van der Waals heterojunctions. *Nanoscale*, **2016**, 8, 12883-67	7	28
64	500fs wideband tunable fiber laser mode-locked by nanotubes. *Physica E: Low-Dimensional Systems and Nanostructures*, **2012**, 44, 1078-1081	3	28
63	Ultrafast free carrier dynamics in black phosphorus/molybdenum disulfide (BP/MoS2) heterostructures. *Nanoscale Horizons*, **2019**, 4, 1099-1105	10.8	26
62	Fast Photoelectric Conversion in the Near-Infrared Enabled by Plasmon-Induced Hot-Electron Transfer. *Advanced Materials*, **2019**, 31, e1903829	24	26
61	Broadband photocarrier dynamics and nonlinear absorption of PLD-grown WTe2 semimetal films. *Applied Physics Letters*, **2018**, 112, 171112	3.4	25
60	Atomic-Scale Interfacial Magnetism in Fe/Graphene Heterojunction. *Scientific Reports*, **2015**, 5, 11911	4.9	24
59	Carbon nanotubes for ultrafast photonics. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 4303-4307	1.3	24
58	$2-mu$ m Wavelength Grating Coupler, Bent Waveguide, and Tunable Microring on Silicon Photonic MPW. *IEEE Photonics Technology Letters*, **2018**, 30, 471-474	2.2	23
57	Fabrication, characterization and mode locking application of single-walled carbon nanotube/polymer composite saturable absorbers. *International Journal of Material Forming*, **2008**, 1, 107-112	2	23
56	Dirac semimetal saturable absorber with actively tunable modulation depth. *Optics Letters*, **2019**, 44, 582-585	3	22
55	Broadband nonlinear optical response of monolayer MoSe2 under ultrafast excitation. *Applied Physics Letters*, **2018**, 112, 031108	3.4	21
54	716 nm deep-red passively Q-switched Pr:ZBLAN all-fiber laser using a carbon-nanotube saturable absorber. *Optics Letters*, **2017**, 42, 671-674	3	20
53	Tailoring exciton dynamics of monolayer transition metal dichalcogenides by interfacial electron-phonon coupling. *Communications Physics*, **2019**, 2,	5.4	19
52	Coupled relaxation channels of excitons in monolayer MoSe. *Nanoscale*, **2017**, 9, 18546-18551	7.7	19
51	Soliton fiber laser mode-locked by a single-wall carbon nanotube-polymer composite. *Physica Status Solidi (B): Basic Research*, **2008**, 245, 2319-2322	1.3	19
50	Enhanced Photocatalytic Activity of 2H-MoSe2 by 3d Transition-Metal Doping. *Journal of Physical Chemistry C*, **2018**, 122, 26570-26575	3.8	19
49	Nanotube mode-locked, wavelength and pulsewidth tunable thulium fiber laser. *Optics Express*, **2019**, 27, 3518-3527	3.3	17

48	Graphene mode-locked femtosecond Cr2+:ZnS laser with ~300 nm tuning range. *Optics Express*, **2016**, 24, 20774-80	3.3	17
47	Two-dimensional materials for ultrafast lasers. *Chinese Physics B*, **2017**, 26, 034202	1.2	16
46	Planar graphene-C60-graphene heterostructures for sensitive UV-Visible photodetection. *Carbon*, **2019**, 146, 486-490	10.4	16
45	Bidirectional Red-Light Passively Q-Switched All-Fiber Ring Lasers With Carbon Nanotube Saturable Absorber. *Journal of Lightwave Technology*, **2018**, 36, 2694-2701	4	15
44	Modulation of photocarrier relaxation dynamics in two-dimensional semiconductors. *Light: Science and Applications*, **2020**, 9, 192	16.7	14
43	Slowing down photocarrier relaxation in Dirac semimetal CdAs via Mn doping. *Optics Letters*, **2019**, 44, 4103-4106	3	13
42	Progress on mid-IR graphene photonics and biochemical applications. *Frontiers of Optoelectronics*, **2016**, 9, 259-269	2.8	13
41	Stable Gain-Switched Thulium Fiber Laser With 140-nm Tuning Range. *IEEE Photonics Technology Letters*, **2016**, 28, 1340-1343	2.2	13
40	Third harmonic generation in Dirac semimetal Cd3As2. *Applied Physics Letters*, **2020**, 117, 011102	3.4	11
39	Photoresponsivity of an all-semimetal heterostructure based on graphene and WTe. *Scientific Reports*, **2018**, 8, 12840	4.9	10
38	InAs-Nanowire-Based Broadband Ultrafast Optical Switch. *Journal of Physical Chemistry Letters*, **2019**, 10, 4429-4436	6.4	10
37	Indium selenide film: a promising saturable absorber in 3- to 4-□m band for mid-infrared pulsed laser. *Nanophotonics*, **2020**, 9, 2045-2052	6.3	10
36	Bandgap renormalization in single-wall carbon nanotubes. *Scientific Reports*, **2017**, 7, 11221	4.9	9
35	All-Fiber Passively Q-Switched Laser Based on Tm3+-Doped Tellurite Fiber. *IEEE Photonics Technology Letters*, **2015**, 27, 689-692	2.2	9
34	Recent advances in graphene and black phosphorus nonlinear plasmonics. *Nanophotonics*, **2020**, 9, 1695-1715	6.3	9
33	Spin-ARPES EUV Beamline for Ultrafast Materials Research and Development. *Applied Sciences (Switzerland)*, **2019**, 9, 370	2.6	7
32	Observation of bimolecular recombination in high mobility semiconductor Bi2O2Se using ultrafast spectroscopy. *Applied Physics Letters*, **2018**, 113, 061104	3.4	7
31	20 GHz actively mode-locked thulium fiber laser. *Optics Express*, **2018**, 26, 25769-25777	3.3	7

30	Enhancing photocatalytic activity in monolayer MoS2 by charge compensated co-doping with P and Cl: First principles study. *Molecular Catalysis*, **2019**, 468, 94-99	3.3	6
29	Robust, flexible and broadband photodetectors based on van der Waals graphene/C60 heterostructures. *Carbon*, **2020**, 167, 668-674	10.4	6
28	Layered Semiconductor Bi2O2Se for Broadband Pulse Generation in the Near-Infrared. *IEEE Photonics Technology Letters*, **2019**, 31, 1056-1059	2.2	6
27	Hot carrier relaxation in three dimensional gapped Dirac semi-metals. *Journal Physics D: Applied Physics*, **2018**, 51, 015101	3	6
26	Phosphorus doping effect on linear and nonlinear optical properties of Si/SiO_2 multilayers. *Optical Materials Express*, **2017**, 7, 304	2.6	5
25	Harmonic Generation in Low-Dimensional Materials. *Advanced Optical Materials*,2101860	8.1	5
24	Two-dimensional Au & Ag hybrid plasmonic nanoparticle network: broadband nonlinear optical response and applications for pulsed laser generation. *Nanophotonics*, **2020**, 9, 2537-2548	6.3	5
23	Highly Sensitive and Ultrafast Organic Phototransistor Based on Rubrene Single Crystals. *ACS Applied Materials & Interfaces*, **2021**, 13, 57735-57742	9.5	5
22	All-carbon hybrids for high-performance electronics, optoelectronics and energy storage. *Science China Information Sciences*, **2019**, 62, 1	3.4	4
21	2- mu m Repetition-Rate Tunable (1– GHz) Picosecond Source. *IEEE Photonics Technology Letters* , **2017**, 29, 2234-2237	2.2	3
20	Controlling relaxation dynamics of excitonic states in monolayer transition metal dichalcogenides WS2 through interface engineering. *Applied Physics Letters*, **2021**, 118, 121104	3.4	3
19	Observation of Small Polaron and Acoustic Phonon Coupling in Ultrathin La0.7Sr0.3MnO3/SrTiO3 Structures. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1800657	2.5	2
18	Bi2O2Se/Au-Based Schottky Phototransistor With Fast Response and Ultrahigh Responsivity. *IEEE Electron Device Letters*, **2020**, 41, 1464-1467	4.4	2
17	Pushing Optical Switch into Deep Mid-Infrared Region: Band Theory, Characterization, and Performance of Topological Semimetal Antimonene. *ACS Nano*, **2021**, 15, 7430-7438	16.7	2
16	Manipulating valley-polarized photoluminescence of MoS2 monolayer at off resonance wavelength with a double-resonance strategy. *Applied Physics Letters*, **2021**, 119, 031106	3.4	2
15	Probing the mode-locking pattern in the parameter space of a Figure-9 laser.. *Optics Letters*, **2022**, 47, 2606-2609	3	2
14	Pulsed Lasers: An Ultrabroadband Mid-Infrared Pulsed Optical Switch Employing Solution-Processed Bismuth Oxyselenide (Adv. Mater. 31/2018). *Advanced Materials*, **2018**, 30, 1870233	24	1
13	Magnetic anisotropy of half-metallic Co2FeAl ultra-thin films epitaxially grown on GaAs(001). *AIP Advances*, **2019**, 9, 065002	1.5	1

List of Publications

12	Weak Anti-Localization and Quantum Oscillations in Topological Crystalline Insulator PbTe. *Chinese Physics Letters*, **2017**, 34, 026201	1.8	1
11	Broadband Nonlinear Photoresponse of Monolayer MoSe2 **2016**,		1
10	Three-dimensional Dirac semimetal Cd3As2 as high-performance 2-5 μm saturable absorbers **2016**,		1
9	Different ultrafast dynamics of neutral and charged excitons in monolayer WS2 **2020**,		1
8	High energy (>40 nJ), sub-100 fs, 950 nm laser for two-photon microscopy. *Optics Express*, **2021**, 29, 38979-38988	3.3	1
7	Ultrafast lattice and electronic dynamics in single-walled carbon nanotubes. *Nanoscale Advances*, **2020**, 2, 2808-2813	5.1	1
6	1550 nm Compatible Ultrafast Photoconductive Material Based on a GaAs/ErAs/GaAs Heterostructure. *Advanced Optical Materials*, **2021**, 9, 2100062	8.1	1
5	Magnetism in monolayer InSe by nonmetal doping: First-principles study. *Solid State Communications*, **2019**, 288, 56-59	1.6	1
4	10 GHz regeneratively mode-locked thulium fiber laser with a stabilized repetition rate. *Optics Express*, **2021**, 29, 37695-37702	3.3	
3	Sub-Femtosecond Timing Jitter From a SESAM Mode-Locked Yb-Fiber Laser. *IEEE Photonics Technology Letters*, **2021**, 33, 1309-1312	2.2	
2	950 nm Femtosecond Laser by Directly Frequency-doubling of a Thulium-doped Fiber Laser. *IEEE Photonics Technology Letters*, **2022**, 1-1	2.2	
1	Observation of an anisotropic ultrafast spin relaxation process in large-area WTe2 films. *Journal of Applied Physics*, **2022**, 131, 163903	2.5	