Fengqiu Wang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2309840/publications.pdf

Version: 2024-02-01

124	9,004	94433	39675
papers	citations	37 h-index	94 g-index

124	124	124	6710
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Harmonic Generation in Lowâ€Dimensional Materials. Advanced Optical Materials, 2022, 10, .	7.3	12
2	Coherent vibrational dynamics of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NbO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> film. Physical Review Materials, 2022, 6, .	2.4	3
3	950 nm Femtosecond Laser by Directly Frequency-Doubling of a Thulium-Doped Fiber Laser. IEEE Photonics Technology Letters, 2022, 34, 498-501.	2.5	4
4	Observation of an anisotropic ultrafast spin relaxation process in large-area WTe₂ films. Journal of Applied Physics, 2022, 131, 163903.	2.5	0
5	Probing the mode-locking pattern in the parameter space of a Figure-9 laser. Optics Letters, 2022, 47, 2606.	3.3	6
6	Electrically and Magnetically Tunable Valley Polarization in Monolayer MoSe₂ Proximitized by a 2D Ferromagnetic Semiconductor. Advanced Functional Materials, 2022, 32, .	14.9	10
7	Controlling relaxation dynamics of excitonic states in monolayer transition metal dichalcogenides WS2 through interface engineering. Applied Physics Letters, 2021, 118, 121104.	3.3	5
8	Pushing Optical Switch into Deep Mid-Infrared Region: Band Theory, Characterization, and Performance of Topological Semimetal Antimonene. ACS Nano, 2021, 15, 7430-7438.	14.6	13
9	1550 nm Compatible Ultrafast Photoconductive Material Based on a GaAs/ErAs/GaAs Heterostructure. Advanced Optical Materials, 2021, 9, 2100062.	7.3	1
10	Manipulating valley-polarized photoluminescence of MoS2 monolayer at off resonance wavelength with a double-resonance strategy. Applied Physics Letters, 2021, 119, 031106.	3.3	7
11	10â€…GHz regeneratively mode-locked thulium fiber laser with a stabilized repetition rate. Optics Express, 2021, 29, 37695.	3.4	2
12	High energy (>40 nJ), sub-100 fs, 950 nm laser for two-photon microscopy. Optics Express, 2021, 29, 38979.	3.4	5
13	Sub-Femtosecond Timing Jitter From a SESAM Mode-Locked Yb-Fiber Laser. IEEE Photonics Technology Letters, 2021, 33, 1309-1312.	2.5	2
14	Highly Sensitive and Ultrafast Organic Phototransistor Based on Rubrene Single Crystals. ACS Applied Materials & Interfaces, 2021, 13, 57735-57742.	8.0	15
15	QCL-seeded femtosecond optical parametric amplifier operating beyond 4.5 Î¼m. , 2021, , .		0
16	Graphene Hybrid Structures for Integrated and Flexible Optoelectronics. Advanced Materials, 2020, 32, e1902039.	21.0	127
17	Third harmonic generation in Dirac semimetal Cd3As2. Applied Physics Letters, 2020, 117, .	3.3	21
18	Modulation of photocarrier relaxation dynamics in two-dimensional semiconductors. Light: Science and Applications, 2020, 9, 192.	16.6	40

#	Article	IF	Citations
19	Bi₂O₂Se/Au-Based Schottky Phototransistor With Fast Response and Ultrahigh Responsivity. IEEE Electron Device Letters, 2020, 41, 1464-1467.	3.9	5
20	Robust, flexible and broadband photodetectors based on van der Waals graphene/C60 heterostructures. Carbon, 2020, 167, 668-674.	10.3	17
21	Ultrafast lattice and electronic dynamics in single-walled carbon nanotubes. Nanoscale Advances, 2020, 2, 2808-2813.	4.6	4
22	Different ultrafast dynamics of neutral and charged excitons in monolayer WS2. , 2020, , .		1
23	Recent advances in graphene and black phosphorus nonlinear plasmonics. Nanophotonics, 2020, 9, 1695-1715.	6.0	19
24	Indium selenide film: a promising saturable absorber in 3- to 4-Î¼m band for mid-infrared pulsed laser. Nanophotonics, 2020, 9, 2045-2052.	6.0	25
25	Two-dimensional Au & Ag hybrid plasmonic nanoparticle network: broadband nonlinear optical response and applications for pulsed laser generation. Nanophotonics, 2020, 9, 2537-2548.	6.0	12
26	Third Harmonic Generation (THG) in Three-Dimensional Dirac Semimetal Cd3As2. , 2020, , .		0
27	A SESAM-like Device Operating beyond 3 Micron. , 2020, , .		0
28	2 Î¼m Actively Mode-locked External-cavity Semiconductor Laser. , 2020, , .		0
29	2 GHz Regeneratively Mode-locked Laser at 2 Micron. , 2020, , .		0
30	InAs-Nanowire-Based Broadband Ultrafast Optical Switch. Journal of Physical Chemistry Letters, 2019, 10, 4429-4436.	4.6	18
31	Layered Semiconductor Bi₂O₂Se for Broadband Pulse Generation in the Near-Infrared. IEEE Photonics Technology Letters, 2019, 31, 1056-1059.	2.5	16
32	Magnetic anisotropy of half-metallic Co2FeAl ultra-thin films epitaxially grown on GaAs(001). AIP Advances, 2019, 9, 065002.	1.3	2
33	Sensitive and Ultrabroadband Phototransistor Based on Twoâ€Dimensional Bi₂O₂Se Nanosheets. Advanced Functional Materials, 2019, 29, 1905806.	14.9	106
34	All-carbon hybrids for high-performance electronics, optoelectronics and energy storage. Science China Information Sciences, 2019, 62, 1.	4.3	6
35	Fast Photoelectric Conversion in the Nearâ€Infrared Enabled by Plasmonâ€Induced Hotâ€Electron Transfer. Advanced Materials, 2019, 31, e1903829.	21.0	44
36	Tailoring exciton dynamics of monolayer transition metal dichalcogenides by interfacial electron-phonon coupling. Communications Physics, 2019, 2, .	5.3	27

#	Article	IF	Citations
37	Observation of Small Polaron and Acoustic Phonon Coupling in Ultrathin La 0.7 Sr 0.3 MnO 3 /SrTiO 3 Structures. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800657.	2.4	2
38	Spin-ARPES EUV Beamline for Ultrafast Materials Research and Development. Applied Sciences (Switzerland), 2019, 9, 370.	2.5	12
39	Nanotube mode-locked, wavelength and pulsewidth tunable thulium fiber laser. Optics Express, 2019, 27, 3518.	3.4	35
40	Enhancing photocatalytic activity in monolayer MoS2 by charge compensated co-doping with P and Cl: First principles study. Molecular Catalysis, 2019, 468, 94-99.	2.0	12
41	Ultrafast free carrier dynamics in black phosphorusâ€“molybdenum disulfide (BP/MoS₂) heterostructures. Nanoscale Horizons, 2019, 4, 1099-1105.	8.0	36
42	Dirac semimetal saturable absorber with actively tunable modulation depth. Optics Letters, 2019, 44, 582.	3.3	38
43	Planar graphene-C60-graphene heterostructures for sensitive UV-Visible photodetection. Carbon, 2019, 146, 486-490.	10.3	30
44	Magnetism in monolayer InSe by nonmetal doping: First-principles study. Solid State Communications, 2019, 288, 56-59.	1.9	5
45	Slowing down photocarrier relaxation in Dirac semimetal Cd₃As₂ via Mn doping. Optics Letters, 2019, 44, 4103.	3.3	20
46	$2-mu$ m Wavelength Grating Coupler, Bent Waveguide, and Tunable Microring on Silicon Photonic MPW. IEEE Photonics Technology Letters, 2018, 30, 471-474.	2.5	48
47	Broadband nonlinear optical response of monolayer MoSe2 under ultrafast excitation. Applied Physics Letters, 2018, 112, .	3.3	25
48	Ultrafast saturable absorption in TiS₂induced by non-equilibrium electrons and the generation of a femtosecond mode-locked laser. Nanoscale, 2018, 10, 9608-9615.	5.6	46
49	Broadband photocarrier dynamics and nonlinear absorption of PLD-grown WTe2 semimetal films. Applied Physics Letters, 2018, 112, .	3.3	31
50	Bidirectional Red-Light Passively Q-Switched All-Fiber Ring Lasers With Carbon Nanotube Saturable Absorber. Journal of Lightwave Technology, 2018, 36, 2694-2701.	4.6	23
51	Hot carrier relaxation in three dimensional gapped Dirac semi-metals. Journal Physics D: Applied Physics, 2018, 51, 015101.	2.8	10
52	Enhanced Photocatalytic Activity of 2H-MoSe₂ by 3d Transition-Metal Doping. Journal of Physical Chemistry C, 2018, 122, 26570-26575.	3.1	28
53	Bandwidth Tunable, Dispersion-managed Mode-locked Thulium/holmium Fiber Laser. , 2018, , .		0
54	Sensitive and Robust Ultraviolet Photodetector Array Based on Self-Assembled Graphene/C₆₀ Hybrid Films. ACS Applied Materials & Interfaces, 2018, 10, 38326-38333.	8.0	48

#	Article	IF	Citations
55	Pulsed Lasers: An Ultrabroadband Mid-Infrared Pulsed Optical Switch Employing Solution-Processed Bismuth Oxyselenide (Adv. Mater. 31/2018). Advanced Materials, 2018, 30, 1870233.	21.0	2
56	Three-dimensional Dirac semimetal thin-film absorber for broadband pulse generation in the near-infrared. Optics Letters, 2018, 43, 1503.	3.3	52
57	Observation of bimolecular recombination in high mobility semiconductor Bi2O2Se using ultrafast spectroscopy. Applied Physics Letters, 2018, 113, 061104.	3.3	10
58	Photoresponsivity of an all-semimetal heterostructure based on graphene and WTe2. Scientific Reports, 2018, 8, 12840.	3.3	14
59	An Ultrabroadband Midâ€Infrared Pulsed Optical Switch Employing Solutionâ€Processed Bismuth Oxyselenide. Advanced Materials, 2018, 30, e1801021.	21.0	96
60	Light-actuation of carbon nanotubes in liquids. , 2018, , .		0
61	15 GHz actively mode-locked fiber laser at 2 micron. , 2018, , .		0
62	Nonlinear Reflectance of Planar Plasmonic Nanostructure. , 2018, , .		0
63	Mid-infrared saturable absorber mirror (MIR-SAM) based on Dirac semimetal thin films. , 2018, , .		0
64	Spectroscopic signature of interlayer coupling in Black phosphorus-graphite heterostructure. , 2018, , .		0
65	20 GHz actively mode-locked thulium fiber laser. Optics Express, 2018, 26, 25769.	3.4	14
66	A robust and tuneable mid-infrared optical switch enabled by bulk Dirac fermions. Nature Communications, 2017, 8, 14111.	12.8	174
67	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, .	7.9	211
68	Carbon Nanotube Mode-Locked Thulium Fiber Laser With 200 nm Tuning Range. Scientific Reports, 2017, 7, 45109.	3.3	83
69	Two-dimensional materials for ultrafast lasers. Chinese Physics B, 2017, 26, 034202.	1.4	28
70	Graphene-carbon nanotube hybrid films for high-performance flexible photodetectors. Nano Research, 2017, 10, 1880-1887.	10.4	64
71	Broadband hot-carrier dynamics in three-dimensional Dirac semimetal Cd3As2. Applied Physics Letters, 2017, 111, 091101.	3.3	42
72	Bandgap renormalization in single-wall carbon nanotubes. Scientific Reports, 2017, 7, 11221.	3.3	10

#	Article	IF	Citations
73	Improving the Performance of Graphene Phototransistors Using a Heterostructure as the Light-Absorbing Layer. Nano Letters, 2017, 17, 6391-6396.	9.1	87
74	Tuning the transport behavior of centimeter-scale WTe2 ultrathin films fabricated by pulsed laser deposition. Applied Physics Letters, 2017, 111, .	3.3	34
75	A light-stimulated synaptic device based on graphene hybrid phototransistor. 2D Materials, 2017, 4, 035022.	4.4	186
76	Weak Anti-Localization and Quantum Oscillations in Topological Crystalline Insulator PbTe. Chinese Physics Letters, 2017, 34, 026201.	3.3	1
77	Coupled relaxation channels of excitons in monolayer MoSe₂. Nanoscale, 2017, 9, 18546-18551.	5.6	22
78	Phosphorus doping effect on linear and nonlinear optical properties of Si/SiO_2 multilayers. Optical Materials Express, 2017, 7, 304.	3.0	7
79	716â€‰â€‰nm deep-red passively Q-switched Pr:ZBLAN all-fiber laser using a carbon-nanotube saturable absorber. Optics Letters, 2017, 42, 671.	3.3	26
80	2- mu m Repetition-Rate Tunable (1â€“6 GHz) Picosecond Source. IEEE Photonics Technology Letters, 2017, 29, 2234-2237.	2.5	5
81	All-carbon flexible photodetectors. , 2017, , .		0
82	High repetition-rate 2 Î¼m ultrafast source for data communication and processing. , 2017, , .		0
83	Photonic synaptic device capable of optical memory and logic operations. , 2017, , .		0
84	Graphene mode-locked femtosecond Cr^2+:ZnS laser with ~300 nm tuning range. Optics Express, 2016, 24, 20774.	3.4	21
85	Ultrafast nonlinear photoresponse of single-wall carbon nanotubes: a broadband degenerate investigation. Nanoscale, 2016, 8, 9304-9309.	5.6	39
86	Progress on mid-IR graphene photonics and biochemical applications. Frontiers of Optoelectronics, 2016, 9, 259-269.	3.7	15
87	Stable Gain-Switched Thulium Fiber Laser With 140-nm Tuning Range. IEEE Photonics Technology Letters, 2016, 28, 1340-1343.	2.5	17
88	Charge transfer at carbon nanotubeâ€“graphene van der Waals heterojunctions. Nanoscale, 2016, 8, 12883-12886.	5.6	37
89	Two-dimensional material-based saturable absorbers: towards compact visible-wavelength all-fiber pulsed lasers. Nanoscale, 2016, 8, 1066-1072.	5.6	246
90	Graphene Mode-Locked Fiber Laser at 2.8 <inline-formula> <tex-math notation="LaTeX">$mu ext{m}$ </tex-math></inline-formula>. IEEE Photonics Technology Letters, 2016, 28, 7-10.	2.5	119

#	Article	IF	Citations
91	Broadband Nonlinear Photoresponse of Monolayer MoSe2. , 2016, , .		1
92	Three-dimensional Dirac semimetal Cd3As2 as high-performance 2-5 Î¼m saturable absorbers. , 2016, , .		1
93	Novel Optoelectronic Devices based on Planar Graphene-Nanotube Hybrid Film. , 2016, , .		0
94	Light-activated artificial synapses based on graphene hybrid phototransistors. , 2016, , .		1
95	Ultrafast nonlinear absorption in SWNTs: An ultra-broadband investigation. , 2015, , .		1
96	Ultrafast Mid-IR carrier dynamics in three-dimensional dirac semimetal Cd<inf>3</inf>AS<inf>2</inf>. , 2015, , .		0
97	Resolving the optical modulation mechanism of graphene-hybridized plasmonic metamaterials. , 2015, , .		0
98	Long-cavity nanosecond thulium fiber laser: A compact source of energetic mid-IR pulses. , 2015, , .		0
99	All-Fiber Passively Q-Switched Laser Based on Tm3+-Doped Tellurite Fiber. IEEE Photonics Technology Letters, 2015, 27, 689-692.	2.5	10
100	Atomic-Scale Interfacial Magnetism in Fe/Graphene Heterojunction. Scientific Reports, 2015, 5, 11911.	3.3	30
101	Pulse dynamics in carbon nanotube mode-locked fiber lasers near zero cavity dispersion. Optics Express, 2015, 23, 9947.	3.4	46
102	Planar carbon nanotubeâ€“graphene hybrid films for high-performance broadband photodetectors. Nature Communications, 2015, 6, 8589.	12.8	258
103	Characteristics of saturable absorption of MoS2 films in the visible to near-infrared range. , 2014, , .		1
104	Double-Wall Carbon Nanotubes for Wide-Band, Ultrafast Pulse Generation. ACS Nano, 2014, 8, 4836-4847.	14.6	66
105	Flexible high-repetition-rate ultrafast fiber laser. Scientific Reports, 2013, 3, 3223.	3.3	106
106	Versatile multi-wavelength ultrafast fiber laser mode-locked by carbon nanotubes. Scientific Reports, 2013, 3, 2718.	3.3	280
107	Graphene Q-switched 278ÂÎ¼m Er^3+-doped fluoride fiber laser. Optics Letters, 2013, 38, 3233.	3.3	152
108	Tm-doped fiber laser mode-locked by graphene-polymer composite. Optics Express, 2012, 20, 25077.	3.4	272

#	Article	IF	Citations
109	74-fs nanotube-mode-locked fiber laser. Applied Physics Letters, 2012, 101, 153107.	3.3	122
110	500fs wideband tunable fiber laser mode-locked by nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1078-1081.	2.7	33
111	Graphene Q-switched, tunable fiber laser. Applied Physics Letters, 2011, 98, .	3.3	402
112	A stable, wideband tunable, near transform-limited, graphene-mode-locked, ultrafast laser. Nano Research, 2010, 3, 653-660.	10.4	351
113	Ultrafast stretched-pulse fiber laser mode-locked by carbon nanotubes. Nano Research, 2010, 3, 404-411.	10.4	133
114	Graphene Mode-Locked Ultrafast Laser. ACS Nano, 2010, 4, 803-810.	14.6	1,795
115	Sub 200 fs pulse generation from a graphene mode-locked fiber laser. Applied Physics Letters, 2010, 97, .	3.3	398
116	Nanotubeâ€“Polymer Composites for Ultrafast Photonics. Advanced Materials, 2009, 21, 3874-3899.	21.0	778
117	A compact, high power, ultrafast laser mode-locked by carbon nanotubes. Applied Physics Letters, 2009, 95, .	3.3	114
118	Fabrication, characterization and mode locking application of single-walled carbon nanotube/polymer composite saturable absorbers. International Journal of Material Forming, 2008, 1, 107.	2.0	27
119	Soliton fiber laser modeâ€locked by a singleâ€wall carbon nanotubeâ€polymer composite. Physica Status Solidi (B): Basic Research, 2008, 245, 2319-2322.	1.5	21
120	Carbon Nanotube Polycarbonate Composites for Ultrafast Lasers. Advanced Materials, 2008, 20, 4040-4043.	21.0	148
121	Wideband-tuneable, nanotube mode-locked, fibre laser. Nature Nanotechnology, 2008, 3, 738-742.	31.5	596
122	L -band ultrafast fiber laser mode locked by carbon nanotubes. Applied Physics Letters, 2008, 93, .	3.3	106
123	Carbon nanotubes for ultrafast photonics. Physica Status Solidi (B): Basic Research, 2007, 244, 4303-4307.	1.5	29
124	Generation of ultra-fast laser pulses using nanotube mode-lockers. Physica Status Solidi (B): Basic Research, 2006, 243, 3551-3555.	1.5	40