Robert I Woodward

List of Publications by Year
in descending order

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58 papers	3,019 citations	201674 27 h-index	345221 36 g-index
58 all docs	58 docs citations	58 times ranked	2926 citing authors

#	Article	IF	Citations
1	Black phosphorus ink formulation for inkjet printing of optoelectronics and photonics. Nature Communications, 2017, 8, 278.	12.8	311
2	Tunable Q-switched fiber laser based on saturable edge-state absorption in few-layer molybdenum disulfide (MoS_2). Optics Express, 2014, 22, 31113.	3.4	310
3	Solution processed MoS2-PVA composite for sub-bandgap mode-locking of a wideband tunable ultrafast Er:fiber laser. Nano Research, 2015, 8, 1522-1534.	10.4	256
4	Wideband saturable absorption in few-layer molybdenum diselenide (MoSe_2) for Q-switching Yb-, Er- and Tm-doped fiber lasers. Optics Express, 2015, 23, 20051.	3.4	252
5	2D Saturable Absorbers for Fibre Lasers. Applied Sciences (Switzerland), 2015, 5, 1440-1456.	2.5	198
6	Few-layer MoS_2 saturable absorbers for short-pulse laser technology: current status and future perspectives [Invited]. Photonics Research, 2015, 3, A30.	7.0	185
7	Characterization of the second- and third-order nonlinear optical susceptibilities of monolayer MoS ₂ using multiphoton microscopy. 2D Materials, 2017, 4, 011006.	4.4	147
8	Dysprosium-doped ZBLAN fiber laser tunable from 28â€‰â€‰Î¼m to 34â€‰â€‰Î¼m, pumped at 17â€‰â€‰Î¼m. Optics Letters, 971.	3.3	106
9	Towards â€˜smart lasersâ€™: self-optimisation of an ultrafast pulse source using a genetic algorithm. Scientific Reports, 2016, 6, 37616.	3.3	100
10	A photonic integrated quantum secure communication system. Nature Photonics, 2021, 15, 850-856.	31.4	90
11	A general ink formulation of 2D crystals for wafer-scale inkjet printing. Science Advances, 2020, 6, eaba5029.	10.3	89
12	Emission beyond 4â€‰â€‰Î¼m and mid-infrared lasing in a dysprosium-doped indium fluoride (InF ₃) fiber. Optics Letters, 2018, 43, 1926.	3.3	86
13	Watt-level dysprosium fiber laser at 315â€‰â€‰Î¼m with 73% slope efficiency. Optics Letters, 2018, 43, 1471.	3.3	80
14	Mode-locked dysprosium fiber laser: Picosecond pulse generation from 2.97 to 3.30 Î¼m. APL Photonics, 2018, 3, .	5.7	69
15	Dispersion engineering of mode-locked fibre lasers. Journal of Optics (United Kingdom), 2018, 20, 033002.	2.2	65
16	Swept-wavelength mid-infrared fiber laser for real-time ammonia gas sensing. APL Photonics, 2019, 4, 020801.	5.7	64
17	Q-switched Dy:ZBLAN fiber lasers beyond 3 Î¼m: comparison of pulse generation using acousto-optic modulation and inkjet-printed black phosphorus. Optics Express, 2019, 27, 15032.	3.4	54
18	Generation of 70-fs pulses at 286â€‰â€‰Î¼m from a mid-infrared fiber laser. Optics Letters, 2017, 42, 4893.	3.3	49

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19	Mode-locked and tunable fiber laser at the 3.5â€‰â€‰Âµm band using frequency-shifted feedback. Optics Letters, 2020, 45, 224.	3.3	44
20	Genetic algorithm-based control of birefringent filtering for self-tuning, self-pulsing fiber lasers. Optics Letters, 2017, 42, 2952.	3.3	37
21	Dysprosium Midâ€Infrared Lasers: Current Status and Future Prospects. Laser and Photonics Reviews, 2020, 14, 1900195.	8.7	36
22	Direct inscription of Bragg gratings into coated fluoride fibers for widely tunable and robust mid-infrared lasers. Optics Express, 2017, 25, 30013.	3.4	35
23	Gigahertz measurement-device-independent quantum key distribution using directly modulated lasers. Npj Quantum Information, 2021, 7, .	6.7	33
24	Graphene-based passively mode-locked bidirectional fiber ring laser. Optics Express, 2014, 22, 4539.	3.4	30
25	Surfactantâ€aided exfoliation of molybdenum disulfide for ultrafast pulse generation through edgeâ€state saturable absorption. Physica Status Solidi (B): Basic Research, 2016, 253, 911-917.	1.5	29
26	Optimized laser-written ZBLAN fiber Bragg gratings with high reflectivity and low loss. Optics Letters, 2019, 44, 423.	3.3	29
27	Fiber grating compression of giant-chirped nanosecond pulses from an ultra-long nanotube mode-locked fiber laser. Optics Letters, 2015, 40, 387.	3.3	28
28	Advanced Laser Technology for Quantum Communications (Tutorial Review). Advanced Quantum Technologies, 2021, 4, 2100062.	3.9	25
29	Scalar Nanosecond Pulse Generation in a Nanotube Mode-Locked Environmentally Stable Fiber Laser. IEEE Photonics Technology Letters, 2014, 26, 1672-1675.	2.5	24
30	Ultrafast mid-infrared fiber laser mode-locked using frequency-shifted feedback. Optics Letters, 2019, 44, 1698.	3.3	24
31	Stimulated Brillouin scattering of visible light in small-core photonic crystal fibers. Optics Letters, 2014, 39, 2330.	3.3	21
32	In-fiber polarizer based on a 45-degree tilted fluoride fiber Bragg grating for mid-infrared fiber laser technology. OSA Continuum, 2018, 1, 56.	1.8	21
33	Q-switched Fiber Laser with MoS2 Saturable Absorber. , 2014, , .		19
34	Dark solitons in laser radiation build-up dynamics. Physical Review E, 2016, 93, 032221.	2.1	19
35	Novel Near-infrared Pump Wavelengths for Dysprosium Fiber Lasers. Journal of Lightwave Technology, 2020, 38, 5801-5808.	4.6	17
36	Real-time operation of a multi-rate, multi-protocol quantum key distribution transmitter. Optica, 2021, 8, 911.	9.3	16

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37	Fiber-integrated 780 nm source for visible parametric generation. Optics Express, 2014, 22, 29726.	3.4	7
38	Optical nonlinearity of few-layer MoS2 devices and applications in short-pulse laser technology. , 2015, , .		7
39	Characterization of the Nonlinear Susceptibility of Monolayer MoS2 using Second- and Third-Harmonic Generation Microscopy. , 2016, , .		2
40	Self-Optimizing Mode-Locked Laser using a Genetic Algorithm. , 2016, , .		1
41	In-Fibre Polarizer for Mid-Infrared Fibre Lasers Based on 45Â° Tilted Fluoride Fibre Bragg Grating. , 2018, , .		1
42	Nanotube mode-locked, low repetition rate pulse source for fiber-based supercontinuum generation at low average pump power. , 2014, , .		1
43	Towards diode-pumped mid-infrared praseodymium-ytterbium-doped fluoride fiber lasers. , 2018, , .		1
44	Near infrared pumped full gain bandwidth tunable 3 micron dysprosium fiber laser. , 2018, , .		1
45	Mid-infrared fiber sources for real-time biomedical sensing. , 2019, , .		0
46	Generating Picosecond Pulses from Mid-Infrared Fiber Lasers using Frequency-Shifted Feedback. , 2019, , .		0
47	High Energy Pulses from a Wavelength Tunable Dy:ZBLAN Mid-Infrared Fiber Laser. , 2019, , .		0
48	Visible Light Stimulated Brillouin Scattering in Small-Core Photonic Crystal Fibers. , 2014, , .		0
49	Few-Cycle Pulse Generation from a 3 Âµm Fiber Laser. , 2018, , .		0
50	Versatile mid-infrared mode-locked fiber laser, electronically tunable from 2.97 to 3.30 Âµm. , 2018, , .		0
51	Emission Beyond 4 Âµm and Mid-infrared Lasing from a Dy3+:InF3 Fiber. , 2018, , .		0
52	High-efficiency watt-level mid-infrared fiber lasers beyond 3 Âµm using Dy:ZBLAN. , 2018, , .		0
53	Electronically tunable mid-infrared mode-locked dysprosium fiber laser with over 330 nm tunability. , 2019, , .		0
54	Near-infrared Pump Wavelengths for High Efficiency Dysprosium Doped Mid-infrared Fibre Lasers. , 2020, , .		0

#	Article	IF	Citations
55	Q-switched and Mode-locked 3.5 Î¼m Fiber Laser. , 2020, , .		0
56	Mode-locked mid-infrared fiber systems. , 2022, , 647-684.		0
57	Modeling mid-infrared fiber laser systems. , 2022, , 743-801.		0
58	Self-tuning quantum key distribution transmitter based on a genetic algorithm. , 2022, , .		0