

# Edmund John Railton Kelleher

## List of Publications by Citations

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61

papers

3,185

citations

25

h-index

56

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78

ext. papers

3,657

ext. citations

3.8

avg, IF

5.18

L-index

#	Paper	IF	Citations
61	A stable, wideband tunable, near transform-limited, graphene-mode-locked, ultrafast laser. <i>Nano Research</i> , <b>2010</b> , 3, 653-660	10	295
60	Tunable Q-switched fiber laser based on saturable edge-state absorption in few-layer molybdenum disulfide (MoS <sub>2</sub> ). <i>Optics Express</i> , <b>2014</b> , 22, 31113-22	3.3	279
59	Tm-doped fiber laser mode-locked by graphene-polymer composite. <i>Optics Express</i> , <b>2012</b> , 20, 25077-84	3.3	233
58	Black phosphorus ink formulation for inkjet printing of optoelectronics and photonics. <i>Nature Communications</i> , <b>2017</b> , 8, 278	17.4	225
57	Wideband saturable absorption in few-layer molybdenum diselenide (MoSe <sub>2</sub> ) for Q-switching Yb-, Er- and Tm-doped fiber lasers. <i>Optics Express</i> , <b>2015</b> , 23, 20051-61	3.3	222
56	Solution processed MoS <sub>2</sub> -PVA composite for sub-bandgap mode-locking of a wideband tunable ultrafast Er: fiber laser. <i>Nano Research</i> , <b>2015</b> , 8, 1522-1534	10	210
55	Few-layer MoS <sub>2</sub> saturable absorbers for short-pulse laser technology: current status and future perspectives [Invited]. <i>Photonics Research</i> , <b>2015</b> , 3, A30	6	163
54	2D Saturable Absorbers for Fibre Lasers. <i>Applied Sciences (Switzerland)</i> , <b>2015</b> , 5, 1440-1456	2.6	149
53	Nanosecond-pulse fiber lasers mode-locked with nanotubes. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 111108	3.4	115
52	Characterization of the second- and third-order nonlinear optical susceptibilities of monolayer MoS <sub>2</sub> using multiphoton microscopy. <i>2D Materials</i> , <b>2017</b> , 4, 011006	5.9	102
51	Modulation Instability and Phase-Shifted Fermi-Pasta-Ulam Recurrence. <i>Scientific Reports</i> , <b>2016</b> , 6, 28516	4.9	77
50	Generation and direct measurement of giant chirp in a passively mode-locked laser. <i>Optics Letters</i> , <b>2009</b> , 34, 3526-8	3	76
49	Using the E22 transition of carbon nanotubes for fiber laser mode-locking. <i>Laser Physics Letters</i> , <b>2011</b> , 8, 144-149	1.5	69
48	Bismuth fiber integrated laser mode-locked by carbon nanotubes. <i>Laser Physics Letters</i> , <b>2010</b> , 7, 790-794	1.5	66
47	Mid-infrared Raman-soliton continuum pumped by a nanotube-mode-locked sub-picosecond Tm-doped MOPFA. <i>Optics Express</i> , <b>2013</b> , 21, 23261-71	3.3	64
46	Towards 'smart lasers': self-optimisation of an ultrafast pulse source using a genetic algorithm. <i>Scientific Reports</i> , <b>2016</b> , 6, 37616	4.9	61
45	Double-wall carbon nanotubes for wide-band, ultrafast pulse generation. <i>ACS Nano</i> , <b>2014</b> , 8, 4836-47	16.7	54

44	Passive synchronization of all-fiber lasers through a common saturable absorber. <i>Optics Letters</i> , <b>2011</b> , 36, 3984-6	3	52
43	Ultrafast Raman laser mode-locked by nanotubes. <i>Optics Letters</i> , <b>2011</b> , 36, 3996-8	3	52
42	A general ink formulation of 2D crystals for wafer-scale inkjet printing. <i>Science Advances</i> , <b>2020</b> , 6, eaba5029	4	43
41	Theory of edge-state optical absorption in two-dimensional transition metal dichalcogenide flakes. <i>Physical Review B</i> , <b>2016</b> , 94,	3-3	31
40	Simultaneous scalar and cross-phase modulation instabilities in highly birefringent photonic crystal fiber. <i>Optics Express</i> , <b>2013</b> , 21, 8437-43	3-3	28
39	Vector solitons in a laser passively mode-locked by single-wall carbon nanotubes. <i>Optics Communications</i> , <b>2011</b> , 284, 2007-2011	2	27
38	Role of pump coherence in the evolution of continuous-wave supercontinuum generation initiated by modulation instability. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2012</b> , 29, 502	1.7	26
37	Harmonic and single pulse operation of a Raman laser using graphene. <i>Laser Physics Letters</i> , <b>2012</b> , 9, 223-228	1.5	26
36	Observation of timing jitter reduction induced by spectral filtering in a fiber laser mode locked with a carbon nanotube-based saturable absorber. <i>Optics Letters</i> , <b>2010</b> , 35, 2320-2	3	24
35	Surfactant-aided exfoliation of molybdenum disulfide for ultrafast pulse generation through edge-state saturable absorption. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 911-917	1-3	24
34	Visible Raman-Shifted Fiber Lasers for Biophotonic Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2018</b> , 24, 1-8	3.8	21
33	Broadband nonlinear optical response of monolayer MoSe <sub>2</sub> under ultrafast excitation. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 031108	3-4	21
32	Q-switched Fiber Laser with MoS <sub>2</sub> Saturable Absorber <b>2014</b> ,		19
31	Dark solitons in laser radiation build-up dynamics. <i>Physical Review E</i> , <b>2016</b> , 93, 032221	2.4	18
30	Fiber grating compression of giant-chirped nanosecond pulses from an ultra-long nanotube mode-locked fiber laser. <i>Optics Letters</i> , <b>2015</b> , 40, 387-90	3	18
29	Scalar Nanosecond Pulse Generation in a Nanotube Mode-Locked Environmentally Stable Fiber Laser. <i>IEEE Photonics Technology Letters</i> , <b>2014</b> , 26, 1672-1675	2.2	18
28	Chirped pulse formation dynamics in ultra-long mode-locked fiber lasers. <i>Optics Letters</i> , <b>2014</b> , 39, 1398-401	4	18
27	Stimulated Brillouin scattering of visible light in small-core photonic crystal fibers. <i>Optics Letters</i> , <b>2014</b> , 39, 2330-3	3	18

26	Highly efficient mid-infrared difference-frequency generation using synchronously pulsed fiber lasers. <i>Optics Letters</i> , <b>2016</b> , 41, 2446-9	3	18
25	CW-pumped short pulsed 1.12 $\mu$ m Raman laser using carbon nanotubes. <i>Laser Physics Letters</i> , <b>2013</b> , 10, 015101	1.5	17
24	Genetic algorithm-based control of birefringent filtering for self-tuning, self-pulsing fiber lasers. <i>Optics Letters</i> , <b>2017</b> , 42, 2952-2955	3	17
23	Duration-tunable picosecond source at 560 nm with watt-level average power. <i>Optics Letters</i> , <b>2015</b> , 40, 3085-8	3	15
22	Ultrafast fibre laser sources: Examples of recent developments. <i>Optical Fiber Technology</i> , <b>2014</b> , 20, 666-677	3	15
21	Stable Gain-Switched Thulium Fiber Laser With 140-nm Tuning Range. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 1340-1343	2.2	13
20	Attenuation of THz Beams: A How to Tutorial. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2019</b> , 40, 878-904	2.2	12
19	Nonlinear coupling of relative intensity noise from pump to a fiber ring laser mode-locked with carbon nanotubes. <i>Optics Express</i> , <b>2010</b> , 18, 16663-70	3.3	12
18	Fiber-integrated frequency-doubling of a picosecond Raman laser to 560 nm. <i>Optics Express</i> , <b>2015</b> , 23, 15728-33	3.3	11
17	Widely tunable polarization maintaining photonic crystal fiber based parametric wavelength conversion. <i>Optics Express</i> , <b>2013</b> , 21, 15826-33	3.3	11
16	Synchronously pumped photonic crystal fiber-based optical parametric oscillator. <i>Optics Letters</i> , <b>2012</b> , 37, 3156-8	3	11
15	Fission of solitons in continuous-wave supercontinuum. <i>Optics Letters</i> , <b>2012</b> , 37, 5217-9	3	11
14	Near-infrared nanospectroscopy using a low-noise supercontinuum source. <i>APL Photonics</i> , <b>2021</b> , 6, 066106	3.3	11
13	Picosecond bismuth-doped fiber MOPFA for frequency conversion. <i>Optics Letters</i> , <b>2011</b> , 36, 3792-4	3	10
12	High-power few-cycle THz generation at MHz repetition rates in an organic crystal. <i>APL Photonics</i> , <b>2020</b> , 5, 106103	5.2	9
11	Amplification of picosecond pulses and gigahertz signals in bismuth-doped fiber amplifiers. <i>Optics Letters</i> , <b>2011</b> , 36, 1446-8	3	8
10	MHz-repetition-rate, sub-mW, multi-octave THz wave generation in HMQ-TMS. <i>Optics Express</i> , <b>2020</b> , 28, 9631-9641	3.3	7
9	Nanosecond Pulse Generation in Lumped Normally Dispersive All-Fiber Mode-Locked Laser. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 1379-1381	2.2	6

8	Pump wave coherence, modulation instability and their effect on continuous-wave supercontinua. <i>Optical Fiber Technology</i> , <b>2012</b> , 18, 268-282	2.4	5
7	Narrow Linewidth Bismuth-Doped All-Fiber Ring Laser. <i>IEEE Photonics Technology Letters</i> , <b>2010</b> , 22, 793-795		5
6	Stable Gain-Guided Soliton Propagation in a Polarized Yb-Doped Mode-Locked Fiber Laser. <i>IEEE Photonics Journal</i> , <b>2012</b> , 4, 1058-1064	1.8	4
5	Fiber-integrated 780 nm source for visible parametric generation. <i>Optics Express</i> , <b>2014</b> , 22, 29726-32	3.3	3
4	Characterization of nonlinear saturation and mode-locking potential of ionically-doped colored glass filter for short-pulse fiber lasers. <i>Optics Express</i> , <b>2013</b> , 21, 12562-9	3.3	3
3	Mode-locking by nanotubes of a Raman laser based on a highly doped GeO <sub>2</sub> fiber <b>2012</b> ,		2
2	Broadband Nonlinear Photoresponse of Monolayer MoSe <sub>2</sub> <b>2016</b> ,		1
1	Pulse Bunching in the Soliton Rain Regime of an Ultralong Fiber Laser Mediated by Forward Brillouin Scattering <b>2016</b> ,		1