Helen M. Pask

List of Publications by Citations

94 papers	2,916 citations	29 h-index	52 g-index
149 ext. papers	3,471 ext. citations	3 avg, IF	5.35 L-index

#	Paper	IF	Citations
94	. *IEEE Journal of Selected Topics in Quantum Electronics*, **1995**, 1, 2-13	3.8	352
93	The design and operation of solid-state Raman lasers. *Progress in Quantum Electronics*, **2003**, 27, 3-56	9.1	290
92	Crystalline Raman Lasers. *IEEE Journal of Selected Topics in Quantum Electronics*, **2007**, 13, 692-704	3.8	186
91	Wavelength-versatile visible and UV sources based on crystalline Raman lasers. *Progress in Quantum Electronics*, **2008**, 32, 121-158	9.1	120
90	Continuous-wave, intracavity doubled, self-Raman laser operation in Nd:GdVO(4) at 586.5 nm. *Optics Express*, **2007**, 15, 7038-46	3.3	103
89	High efficiency, multi-Watt CW yellow emission from an intracavity-doubled self-Raman laser using Nd:GdVO4. *Optics Express*, **2008**, 16, 21958-63	3.3	90
88	Continuous-wave, all-solid-state, intracavity Raman laser. *Optics Letters*, **2005**, 30, 2454-6	3	78
87	Efficient, all-solid-state, Raman laser in the yellow, orange and red. *Optics Express*, **2004**, 12, 785-90	3.3	78
86	A wavelength-versatile, continuous-wave, self-Raman solid-state laser operating in the visible. *Optics Express*, **2010**, 18, 20013-8	3.3	68
85	Heat generation in Nd:YVO4 with and without laser action. *IEEE Photonics Technology Letters*, **1998**, 10, 1727-1729	2.2	62
84	Diode-pumped LiIO/sub 3/ intracavity Raman lasers. *IEEE Journal of Quantum Electronics*, **2000**, 36, 949-955	2	60
83	An intracavity, frequency-doubled BaWO(4) Raman laser generating multi-watt continuous-wave, yellow emission. *Optics Express*, **2010**, 18, 5984-92	3.3	56
82	Efficient 5.3 W cw laser at 559 nm by intracavity frequency summation of fundamental and first-Stokes wavelengths in a self-Raman Nd:GdVO4 laser. *Optics Letters*, **2010**, 35, 682-4	3	56
81	Efficient all-solid-state yellow laser source producing 1.2-W average power. *Optics Letters*, **1999**, 24, 1490-2	3	56
80	Discretely tunable, all-solid-state laser in the green, yellow, and red. *Optics Letters*, **2005**, 30, 1500-2	3	49
79	All-solid-state 704 mW continuous-wave yellow source based on an intracavity, frequency-doubled crystalline Raman laser. *Optics Letters*, **2007**, 32, 1114-6	3	47
78	Operation of cladding-pumped Yb3+-doped silica fibre lasers in 1[micro sign]m region. *Electronics Letters*, **1994**, 30, 863	1.1	43

77	Modeling of Continuous Wave Intracavity Raman Lasers. *IEEE Journal of Selected Topics in Quantum Electronics*, **2007**, 13, 756-763	3.8	42
76	Continuous-wave Watt-level Nd:YLF/KGW Raman laser operating at near-IR, yellow and lime-green wavelengths. *Optics Express*, **2012**, 20, 9841-50	3.3	39
75	Highly efficient picosecond diamond Raman laser at 1240 and 1485 nm. *Optics Express*, **2014**, 22, 3325-33	3.3	38
74	High average power, all-solid-state external resonator Raman laser. *Optics Letters*, **2003**, 28, 435-7	3	38
73	A continuous wave SrMoO4 Raman laser. *Optics Letters*, **2011**, 36, 579-81	3	37
72	Spectral broadening in continuous-wave intracavity Raman lasers. *Optics Express*, **2014**, 22, 7492-502	3.3	36
71	Direct generation of a first-Stokes vortex laser beam from a self-Raman laser. *Optics Express*, **2013**, 21, 12401-9	3.3	36
70	Passively Q-switched yellow laser formed by a self-Raman composite Nd:YVO4/YVO4 crystal. *Applied Physics B: Lasers and Optics*, **2009**, 97, 799-804	1.9	35
69	Efficient 1181 nm self-stimulating Raman output from transversely diode-pumped Nd3+:KGd(WO4)2 laser. *Optics Communications*, **2004**, 232, 327-331	2	33
68	Cascaded self-Raman lasers based on 382 cm(-1) shift in Nd:GdVO4. *Optics Express*, **2012**, 20, 15180-5	3.3	32
67	Synchronously pumped continuous-wave mode-locked yellow Raman laser at 559 nm. *Optics Express*, **2009**, 17, 569-74	3.3	32
66	Practical 580 nm source based on frequency doubling of an intracavity-Raman-shifted Nd:YAG laser. *Optics Communications*, **1998**, 148, 285-288	2	30
65	Frequency-Tunable THz Source Based on Stimulated Polariton Scattering in ${rm Mg{:}LiNbO}_{3}$. *IEEE Journal of Quantum Electronics*, **2013**, 49, 357-364	2	29
64	Stimulated polariton scattering in an intracavity RbTiOPO4 crystal generating frequency-tunable THz output. *Optics Express*, **2016**, 24, 10254-64	3.3	28
63	Nd:GdVO4 self-Raman laser using double-end polarised pumping at 880 nm for high power infrared and visible output. *Applied Physics B: Lasers and Optics*, **2012**, 108, 17-24	1.9	26
62	Cascaded stimulated polariton scattering in a Mg:LiNbO(3) terahertz laser. *Optics Express*, **2015**, 23, 8687-98	3.3	25
61	Continuous wave, frequency-tunable terahertz laser radiation generated via stimulated polariton scattering. *Optics Letters*, **2014**, 39, 442-5	3	25
60	An intracavity, frequency-doubled self-Raman vortex laser. *Optics Express*, **2014**, 22, 5400-9	3.3	25

59	Miniature wavelength-selectable Raman laser: new insights for optimizing performance. *Optics Express*, **2011**, 19, 25623-31	3.3	25
58	Multi-wavelength, all-solid-state, continuous wave mode locked picosecond Raman laser. *Optics Express*, **2010**, 18, 5289-94	3.3	25
57	A Pr3+-doped ZBLAN fibre upconversion laser pumped by an Yb3+-doped silica fibre laser. *Optics Communications*, **1997**, 134, 139-144	2	23
56	A single-frequency intracavity Raman laser. *Optics Express*, **2019**, 27, 8540-8553	3.3	23
55	Near-infrared and orange-red emission from a continuous-wave, second-Stokes self-Raman Nd:GdVO4 laser. *Optics Letters*, **2010**, 35, 3000-2	3	22
54	Wavelength tuning and power enhancement of an intracavity Nd:GdVO-BaWO Raman laser using an etalon. *Optics Express*, **2018**, 26, 32145-32155	3.3	22
53	Thermal lensing in a diode-end-pumped continuous-wave self-Raman Nd-doped GdVO4 laser. *Applied Physics B: Lasers and Optics*, **2012**, 108, 73-79	1.9	21
52	Optical field dynamics in a wavelength-versatile, all-solid-state intracavity cascaded pulsed Raman laser. *Applied Physics B: Lasers and Optics*, **2008**, 93, 507-513	1.9	21
51	Efficient, miniature, cw yellow source based on an intracavity frequency-doubled Nd:YVO self-Raman laser. *Optics Letters*, **2011**, 36, 1428-30	3	19
50	Small-scale, all-solid-state, frequency-doubled intracavity Raman laser producing 5 mW yellow–orange output at 598 nm. *Optics Communications*, **2004**, 229, 305-310	2	19
49	Measurement of thermal lensing in a CW BaWO4 intracavity Raman laser. *Optics Express*, **2012**, 20, 9810-8	3.3	18
48	Single-longitudinal-mode ring diamond Raman laser. *Optics Letters*, **2017**, 42, 1229-1232	3	17
47	THz polariton laser using an intracavity Mg:LiNbO3 crystal with protective Teflon coating. *Optics Express*, **2017**, 25, 3991-3999	3.3	17
46	Optical remote sensing of water temperature using Raman spectroscopy. *Optics Express*, **2015**, 23, 31844-56	3.3	17
45	All-solid-state continuous-wave yellow laser based on intracavity frequency-doubled self-Raman laser action. *Applied Physics B: Lasers and Optics*, **2007**, 88, 539-544	1.9	17
44	Quasi-continuous wave Raman lasers at 990 and 976 nm based on a three-level Nd:YLF laser. *Optics Letters*, **2014**, 39, 2982-5	3	13
43	. *IEEE Journal of Selected Topics in Quantum Electronics*, **2018**, 24, 1-6	3.8	12
42	Multiwavelength ultrafast LiNbO(3) Raman laser. *Optics Express*, **2015**, 23, 25582-7	3.3	12

41	New approach to remote sensing of temperature and salinity in natural water samples. *Optics Express*, **2017**, 25, 2840-2851	3.3	11
40	Investigation of blue emission from Raman-active crystals: Its origin and impact on laser performance. *Optical Materials Express*, **2014**, 4, 889	2.6	11
39	Control of cascading in multiple-order Raman lasers. *Optics Letters*, **2012**, 37, 3840-2	3	11
38	Continuous-wave VECSEL Raman laser with tunable lime-yellow-orange output. *Optics Express*, **2012**, 20, 5219-24	3.3	11
37	Localized Auger Recombination in Quantum-Dot Lasers. *IEEE Journal of Quantum Electronics*, **2007**, 43, 1140-1146	2	11
36	Tunable THz polariton laser based on 1342 nm wavelength for enhanced terahertz wave extraction. *Optics Letters*, **2017**, 42, 2691-2694	3	10
35	Study of relaxation oscillations in continuous-wave intracavity Raman lasers. *Optics Express*, **2010**, 18, 11530-6	3.3	10
34	Diode-side-pumped continuous wave Nd□+ : YVO□self-Raman laser at 1176 nm. *Optics Letters*, **2015**, 40, 3524-7	3	9
33	Modeling of wavelength-selectable visible Raman lasers. *Optics Communications*, **2012**, 285, 3849-3854	2	9
32	Managing SRS competition in a miniature visible Nd:YVO4/BaWO4 Raman laser. *Optics Express*, **2012**, 20, 19305-12	3.3	9
31	A continuous-wave vortex Raman laser with sum frequency generation. *Applied Physics B: Lasers and Optics*, **2016**, 122, 1	1.9	8
30	Efficient frequency extension of a diode-side-pumped Nd:YAG laser by intracavity SRS in crystalline materials. *Optics Communications*, **2004**, 242, 575-579	2	8
29	Efficient all-solid-state Ce:LiLuF laser source at 309 nm. *Optics Communications*, **2005**, 252, 132-137	2	6
28	. *IEEE Journal of Quantum Electronics*, **1994**, 30, 2376-2384	2	6
27	Characteristics of discharge-excited barium vapor lasers operating in the 1□□ □n spectral band. *Journal of Applied Physics*, **1992**, 72, 5545-5554	2.5	6
26	Direct generation of 1108 nm and 1173 nm Laguerre-Gaussian modes from a self-Raman Nd:GdVO laser. *Optics Express*, **2020**, 28, 24095-24103	3.3	6
25	Tunable terahertz generation in the picosecond regime from the stimulated polariton scattering in a LiNbO3 crystal. *Optics Letters*, **2016**, 41, 4409-12	3	6
24	Analytic theory for lasers based on stimulated polariton scattering. *Journal of the Optical Society of America B: Optical Physics*, **2019**, 36, 1706	1.7	5

23	Intracavity frequency converted Raman laser producing 10 deep blue to cyan emission lines with up to 0.94 W output power. *Optics Letters*, **2014**, 39, 6799-802	3	4
22	Stimulated Raman scattering of barium laser output in a silica fibre. *Optical and Quantum Electronics*, **1991**, 23, S563-S568	2.4	4
21	A LIDAR-Compatible, Multichannel Raman Spectrometer for Remote Sensing of Water Temperature. *Sensors*, **2019**, 19,	3.8	3
20	Raman lasers **2013**, 493-524		3
19	Efficient amplication in the first telecommunications window. *Journal of Non-Crystalline Solids*, **1993**, 161, 274-276	3.9	3
18	Intracavity THz Polariton Source Using a Shallow-Bounce Configuration. *IEEE Transactions on Terahertz Science and Technology*, **2019**, 9, 237-242	3.4	2
17	Remote Sensing of Natural Waters Using a Multichannel, Lidar-Compatible Raman Spectrometer and Blue Excitation. *Frontiers in Marine Science*, **2020**, 7,	4.5	2
16	. *IEEE Journal of Quantum Electronics*, **2011**, 47, 314-319	2	2
15	Raman spectral analysis for remote measurement of water temperature **2012**,		2
14	Impact of fluorescence on Raman remote sensing of temperature in natural water samples. *Optics Express*, **2019**, 27, 22339-22351	3.3	2
13	Linewidth-narrowing of a continuous wave terahertz polariton laser using an intracavity etalon. *Optics Letters*, **2020**, 45, 157	3	2
12	Terahertz sources based on stimulated polariton scattering. *Progress in Quantum Electronics*, **2020**, 71, 100254	9.1	1
11	High beam quality cw 1.5 W BaWO4 Raman laser using Nd:YLF as laser active medium **2011**,		1
10	Compact continuous-wave yellow laser based on a self-stimulating Raman Nd:YVO4 laser **2007**, WB19		1
9	Laser design and energy dynamics in a wavelength-versatile, all-solid-state intracavity cascaded Raman laser **2005**,		1
8	Design and operation of all-solid-state Raman lasers		1
7	Compact diode-pumped 598-nm laser source **2002**, 4630, 57		1
6	. *IEEE Journal of Quantum Electronics*, **1993**, 29, 2540-2546	2	1

List of Publications

5	Competition Effects Between Stimulated Raman and Polariton Scattering in Intracavity KTiOPO4 Crystal **2015**,		1
4	KGW and diamond picosecond visible Raman lasers **2010**,		1
3	Focus issue introduction: Advanced Solid-State Lasers 2020. *Optical Materials Express*, **2021**, 11, 952	2.6	1
2	Focus issue introduction: Advanced Solid-State Lasers 2020. *Optical Materials Express*, **2021**, 11, 952	2.6	
1	Focus issue introduction: Advanced Solid-State Lasers 2020. *Optics Express*, **2021**, 29, 8365-8367	3.3	