

Helen M. Pask

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Focus issue introduction: Advanced Solid-State Lasers 2020. <i>Optical Materials Express</i> , 2021 , 11, 952	2.6	
93	Focus issue introduction: Advanced Solid-State Lasers 2020. <i>Optical Materials Express</i> , 2021 , 11, 952	2.6	1
92	Focus issue introduction: Advanced Solid-State Lasers 2020. <i>Optics Express</i> , 2021 , 29, 8365-8367	3.3	
91	Remote Sensing of Natural Waters Using a Multichannel, Lidar-Compatible Raman Spectrometer and Blue Excitation. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	2
90	Terahertz sources based on stimulated polariton scattering. <i>Progress in Quantum Electronics</i> , 2020 , 71, 100254	9.1	1
89	Direct generation of 1108 nm and 1173 nm Laguerre-Gaussian modes from a self-Raman Nd:GdVO laser. <i>Optics Express</i> , 2020 , 28, 24095-24103	3.3	6
88	Linewidth-narrowing of a continuous wave terahertz polariton laser using an intracavity etalon. <i>Optics Letters</i> , 2020 , 45, 157	3	2
87	Intracavity THz Polariton Source Using a Shallow-Bounce Configuration. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2019 , 9, 237-242	3.4	2
86	A LIDAR-Compatible, Multichannel Raman Spectrometer for Remote Sensing of Water Temperature. <i>Sensors</i> , 2019 , 19,	3.8	3
85	Analytic theory for lasers based on stimulated polariton scattering. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, 1706	1.7	5
84	A single-frequency intracavity Raman laser. <i>Optics Express</i> , 2019 , 27, 8540-8553	3.3	23
83	Impact of fluorescence on Raman remote sensing of temperature in natural water samples. <i>Optics Express</i> , 2019 , 27, 22339-22351	3.3	2
82	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018 , 24, 1-6	3.8	12
81	Wavelength tuning and power enhancement of an intracavity Nd:GdVO-BaWO Raman laser using an etalon. <i>Optics Express</i> , 2018 , 26, 32145-32155	3.3	22
80	Single-longitudinal-mode ring diamond Raman laser. <i>Optics Letters</i> , 2017 , 42, 1229-1232	3	17
79	Tunable THz polariton laser based on 1342 nm wavelength for enhanced terahertz wave extraction. <i>Optics Letters</i> , 2017 , 42, 2691-2694	3	10
78	New approach to remote sensing of temperature and salinity in natural water samples. <i>Optics Express</i> , 2017 , 25, 2840-2851	3.3	11

77	THz polariton laser using an intracavity Mg:LiNbO ₃ crystal with protective Teflon coating. <i>Optics Express</i> , 2017 , 25, 3991-3999	3.3	17
76	Stimulated polariton scattering in an intracavity RbTiOPO ₄ crystal generating frequency-tunable THz output. <i>Optics Express</i> , 2016 , 24, 10254-64	3.3	28
75	A continuous-wave vortex Raman laser with sum frequency generation. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 1	1.9	8
74	Tunable terahertz generation in the picosecond regime from the stimulated polariton scattering in a LiNbO ₃ crystal. <i>Optics Letters</i> , 2016 , 41, 4409-12	3	6
73	Cascaded stimulated polariton scattering in a Mg:LiNbO(3) terahertz laser. <i>Optics Express</i> , 2015 , 23, 8687-98	3.3	25
72	Diode-side-pumped continuous wave Nd ³⁺ :YVO ₄ self-Raman laser at 1176 nm. <i>Optics Letters</i> , 2015 , 40, 3524-7	3	9
71	Multiwavelength ultrafast LiNbO(3) Raman laser. <i>Optics Express</i> , 2015 , 23, 25582-7	3.3	12
70	Optical remote sensing of water temperature using Raman spectroscopy. <i>Optics Express</i> , 2015 , 23, 31844-56	3.3	17
69	Competition Effects Between Stimulated Raman and Polariton Scattering in Intracavity KTiOPO ₄ Crystal 2015 ,		1
68	Continuous wave, frequency-tunable terahertz laser radiation generated via stimulated polariton scattering. <i>Optics Letters</i> , 2014 , 39, 442-5	3	25
67	Quasi-continuous wave Raman lasers at 990 and 976 nm based on a three-level Nd:YLF laser. <i>Optics Letters</i> , 2014 , 39, 2982-5	3	13
66	Highly efficient picosecond diamond Raman laser at 1240 and 1485 nm. <i>Optics Express</i> , 2014 , 22, 3325-33	3.3	38
65	An intracavity, frequency-doubled self-Raman vortex laser. <i>Optics Express</i> , 2014 , 22, 5400-9	3.3	25
64	Investigation of blue emission from Raman-active crystals: Its origin and impact on laser performance. <i>Optical Materials Express</i> , 2014 , 4, 889	2.6	11
63	Intracavity frequency converted Raman laser producing 10 deep blue to cyan emission lines with up to 0.94 W output power. <i>Optics Letters</i> , 2014 , 39, 6799-802	3	4
62	Spectral broadening in continuous-wave intracavity Raman lasers. <i>Optics Express</i> , 2014 , 22, 7492-502	3.3	36
61	Frequency-Tunable THz Source Based on Stimulated Polariton Scattering in Mg:LiNbO_3 . <i>IEEE Journal of Quantum Electronics</i> , 2013 , 49, 357-364	2	29
60	Raman lasers 2013 , 493-524		3

59	Direct generation of a first-Stokes vortex laser beam from a self-Raman laser. <i>Optics Express</i> , 2013 , 21, 12401-9	3-3	36
58	Modeling of wavelength-selectable visible Raman lasers. <i>Optics Communications</i> , 2012 , 285, 3849-3854	2	9
57	Control of cascading in multiple-order Raman lasers. <i>Optics Letters</i> , 2012 , 37, 3840-2	3	11
56	Nd:GdVO ₄ self-Raman laser using double-end polarised pumping at 880 nm for high power infrared and visible output. <i>Applied Physics B: Lasers and Optics</i> , 2012 , 108, 17-24	1-9	26
55	Thermal lensing in a diode-end-pumped continuous-wave self-Raman Nd-doped GdVO ₄ laser. <i>Applied Physics B: Lasers and Optics</i> , 2012 , 108, 73-79	1-9	21
54	Measurement of thermal lensing in a CW BaWO ₄ intracavity Raman laser. <i>Optics Express</i> , 2012 , 20, 9810-8	3-3	18
53	Continuous-wave Watt-level Nd:YLF/KGW Raman laser operating at near-IR, yellow and lime-green wavelengths. <i>Optics Express</i> , 2012 , 20, 9841-50	3-3	39
52	Cascaded self-Raman lasers based on 382 cm ⁻¹ shift in Nd:GdVO ₄ . <i>Optics Express</i> , 2012 , 20, 15180-5	3-3	32
51	Managing SRS competition in a miniature visible Nd:YVO ₄ /BaWO ₄ Raman laser. <i>Optics Express</i> , 2012 , 20, 19305-12	3-3	9
50	Continuous-wave VECSEL Raman laser with tunable lime-yellow-orange output. <i>Optics Express</i> , 2012 , 20, 5219-24	3-3	11
49	Raman spectral analysis for remote measurement of water temperature 2012 ,		2
48	Miniature wavelength-selectable Raman laser: new insights for optimizing performance. <i>Optics Express</i> , 2011 , 19, 25623-31	3-3	25
47	A continuous wave SrMoO ₄ Raman laser. <i>Optics Letters</i> , 2011 , 36, 579-81	3	37
46	Efficient, miniature, cw yellow source based on an intracavity frequency-doubled Nd:YVO ₄ self-Raman laser. <i>Optics Letters</i> , 2011 , 36, 1428-30	3	19
45	. <i>IEEE Journal of Quantum Electronics</i> , 2011 , 47, 314-319	2	2
44	High beam quality cw 1.5 W BaWO ₄ Raman laser using Nd:YLF as laser active medium 2011 ,		1
43	Multi-wavelength, all-solid-state, continuous wave mode locked picosecond Raman laser. <i>Optics Express</i> , 2010 , 18, 5289-94	3-3	25
42	An intracavity, frequency-doubled BaWO ₄ Raman laser generating multi-watt continuous-wave, yellow emission. <i>Optics Express</i> , 2010 , 18, 5984-92	3-3	56

41	Study of relaxation oscillations in continuous-wave intracavity Raman lasers. <i>Optics Express</i> , 2010 , 18, 11530-6	3.3	10
40	A wavelength-versatile, continuous-wave, self-Raman solid-state laser operating in the visible. <i>Optics Express</i> , 2010 , 18, 20013-8	3.3	68
39	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. <i>Optics Letters</i> , 2010 , 35, 682-4	3	56
38	Near-infrared and orange-red emission from a continuous-wave, second-Stokes self-Raman Nd:GdVO4 laser. <i>Optics Letters</i> , 2010 , 35, 3000-2	3	22
37	KGW and diamond picosecond visible Raman lasers 2010 ,		1
36	Passively Q-switched yellow laser formed by a self-Raman composite Nd:YVO4/YVO4 crystal. <i>Applied Physics B: Lasers and Optics</i> , 2009 , 97, 799-804	1.9	35
35	Synchronously pumped continuous-wave mode-locked yellow Raman laser at 559 nm. <i>Optics Express</i> , 2009 , 17, 569-74	3.3	32
34	High efficiency, multi-Watt CW yellow emission from an intracavity-doubled self-Raman laser using Nd:GdVO4. <i>Optics Express</i> , 2008 , 16, 21958-63	3.3	90
33	Wavelength-versatile visible and UV sources based on crystalline Raman lasers. <i>Progress in Quantum Electronics</i> , 2008 , 32, 121-158	9.1	120
32	Optical field dynamics in a wavelength-versatile, all-solid-state intracavity cascaded pulsed Raman laser. <i>Applied Physics B: Lasers and Optics</i> , 2008 , 93, 507-513	1.9	21
31	Crystalline Raman Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007 , 13, 692-704	3.8	186
30	Modeling of Continuous Wave Intracavity Raman Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007 , 13, 756-763	3.8	42
29	All-solid-state continuous-wave yellow laser based on intracavity frequency-doubled self-Raman laser action. <i>Applied Physics B: Lasers and Optics</i> , 2007 , 88, 539-544	1.9	17
28	Compact continuous-wave yellow laser based on a self-stimulating Raman Nd:YVO4 laser 2007 , WB19		1
27	All-solid-state 704 mW continuous-wave yellow source based on an intracavity, frequency-doubled crystalline Raman laser. <i>Optics Letters</i> , 2007 , 32, 1114-6	3	47
26	Continuous-wave, intracavity doubled, self-Raman laser operation in Nd:GdVO(4) at 586.5 nm. <i>Optics Express</i> , 2007 , 15, 7038-46	3.3	103
25	Localized Auger Recombination in Quantum-Dot Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2007 , 43, 1140-1146	2	11
24	Laser design and energy dynamics in a wavelength-versatile, all-solid-state intracavity cascaded Raman laser 2005 ,		1

23	Discretely tunable, all-solid-state laser in the green, yellow, and red. <i>Optics Letters</i> , 2005 , 30, 1500-2	3	49
22	Continuous-wave, all-solid-state, intracavity Raman laser. <i>Optics Letters</i> , 2005 , 30, 2454-6	3	78
21	Efficient all-solid-state Ce:LiLuF laser source at 309 nm. <i>Optics Communications</i> , 2005 , 252, 132-137	2	6
20	Efficient 1181 nm self-stimulating Raman output from transversely diode-pumped Nd ³⁺ :KGd(WO ₄) ₂ laser. <i>Optics Communications</i> , 2004 , 232, 327-331	2	33
19	Efficient frequency extension of a diode-side-pumped Nd:YAG laser by intracavity SRS in crystalline materials. <i>Optics Communications</i> , 2004 , 242, 575-579	2	8
18	Small-scale, all-solid-state, frequency-doubled intracavity Raman laser producing 5 mW yellow-orange output at 598 nm. <i>Optics Communications</i> , 2004 , 229, 305-310	2	19
17	Efficient, all-solid-state, Raman laser in the yellow, orange and red. <i>Optics Express</i> , 2004 , 12, 785-90	3.3	78
16	The design and operation of solid-state Raman lasers. <i>Progress in Quantum Electronics</i> , 2003 , 27, 3-56	9.1	290
15	High average power, all-solid-state external resonator Raman laser. <i>Optics Letters</i> , 2003 , 28, 435-7	3	38
14	Compact diode-pumped 598-nm laser source 2002 , 4630, 57		1
13	Diode-pumped LiIO/sub 3/ intracavity Raman lasers. <i>IEEE Journal of Quantum Electronics</i> , 2000 , 36, 949-955		60
12	Efficient all-solid-state yellow laser source producing 1.2-W average power. <i>Optics Letters</i> , 1999 , 24, 1490-2		56
11	Practical 580 nm source based on frequency doubling of an intracavity-Raman-shifted Nd:YAG laser. <i>Optics Communications</i> , 1998 , 148, 285-288	2	30
10	Heat generation in Nd:YVO ₄ with and without laser action. <i>IEEE Photonics Technology Letters</i> , 1998 , 10, 1727-1729	2.2	62
9	A Pr ³⁺ -doped ZBLAN fibre upconversion laser pumped by an Yb ³⁺ -doped silica fibre laser. <i>Optics Communications</i> , 1997 , 134, 139-144	2	23
8	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1995 , 1, 2-13	3.8	352
7	. <i>IEEE Journal of Quantum Electronics</i> , 1994 , 30, 2376-2384	2	6
6	Operation of cladding-pumped Yb ³⁺ -doped silica fibre lasers in 1[μ m] region. <i>Electronics Letters</i> , 1994 , 30, 863	1.1	43

5	Efficient amplification in the first telecommunications window. <i>Journal of Non-Crystalline Solids</i> , 1993 , 161, 274-276	3.9	3
4	. <i>IEEE Journal of Quantum Electronics</i> , 1993 , 29, 2540-2546	2	1
3	Characteristics of discharge-excited barium vapor lasers operating in the 1B ₁ spectral band. <i>Journal of Applied Physics</i> , 1992 , 72, 5545-5554	2.5	6
2	Stimulated Raman scattering of barium laser output in a silica fibre. <i>Optical and Quantum Electronics</i> , 1991 , 23, S563-S568	2.4	4
1	Design and operation of all-solid-state Raman lasers		1