Helen M. Pask

List of Publications by Year
in descending order

149 papers	3,762 citations	117453 34 h-index	128067 60 g-index
149 all docs	149 docs citations	149 times ranked	1199 citing authors

#	Article	IF	Citations
1	Ytterbium-doped silica fiber lasers: versatile sources for the 1-1.2 Î¼m region. IEEE Journal of Selected Topics in Quantum Electronics, 1995, 1, 2-13.	1.9	467
2	The design and operation of solid-state Raman lasers. Progress in Quantum Electronics, 2003, 27, 3-56.	3.5	364
3	Crystalline Raman Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 692-704.	1.9	231
4	Wavelength-versatile visible and UV sources based on crystalline Raman lasers. Progress in Quantum Electronics, 2008, 32, 121-158.	3.5	153
5	Continuous-wave, intracavity doubled, self-Raman laser operation in Nd:GdVO_4 at 586.5 nm. Optics Express, 2007, 15, 7038.	1.7	126
6	High efficiency, multi-Watt CW yellow emission from an intracavity-doubled self-Raman laser using Nd:GdVO_4. Optics Express, 2008, 16, 21958.	1.7	103
7	Efficient, all-solid-state, Raman laser in the yellow, orange and red. Optics Express, 2004, 12, 785.	1.7	100
8	Continuous-wave, all-solid-state, intracavity Raman laser. Optics Letters, 2005, 30, 2454.	1.7	98
9	A wavelength-versatile, continuous-wave, self-Raman solid-state laser operating in the visible. Optics Express, 2010, 18, 20013.	1.7	89
10	Heat generation in Nd:YVO4 with and without laser action. IEEE Photonics Technology Letters, 1998, 10, 1727-1729.	1.3	76
11	Efficient all-solid-state yellow laser source producing 12-W average power. Optics Letters, 1999, 24, 1490.	1.7	74
12	Diode-pumped LiIO/sub 3/ intracavity Raman lasers. IEEE Journal of Quantum Electronics, 2000, 36, 949-955.	1.0	72
13	An intracavity, frequency-doubled BaWO_4 Raman laser generating multi-watt continuous-wave, yellow emission. Optics Express, 2010, 18, 5984.	1.7	67
14	Efficient 53 W cw laser at 559 nm by intracavity frequency summation of fundamental and first-Stokes wavelengths in a self-Raman Nd:GdVO_4 laser. Optics Letters, 2010, 35, 682.	1.7	63
15	Discretely tunable, all-solid-state laser in the green, yellow, and red. Optics Letters, 2005, 30, 1500.	1.7	61
16	Highly efficient picosecond diamond Raman laser at 1240 and 1485 nm. Optics Express, 2014, 22, 3325.	1.7	60
17	Direct generation of a first-Stokes vortex laser beam from a self-Raman laser. Optics Express, 2013, 21, 12401.	1.7	58
18	All-solid-state 704 mW continuous-wave yellow source based on an intracavity, frequency-doubled crystalline Raman laser. Optics Letters, 2007, 32, 1114.	1.7	57

#	Article	IF	Citations
19	Continuous-wave Watt-level Nd:YLF/KGW Raman laser operating at near-IR, yellow and lime-green wavelengths. Optics Express, 2012, 20, 9841.	1.7	53
20	Modeling of Continuous Wave Intracavity Raman Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 756-763.	1.9	52
21	Operation of cladding-pumped Yb3+-doped silica fibre lasers in 1[micro sign]m region. Electronics Letters, 1994, 30, 863.	0.5	51
22	Synchronously pumped continuous-wave mode-locked yellow Raman laser at 559 nm. Optics Express, 2009, 17, 569.	1.7	50
23	High average power, all-solid-state external resonator Raman laser. Optics Letters, 2003, 28, 435.	1.7	49
24	A continuous wave SrMoO_4 Raman laser. Optics Letters, 2011, 36, 579.	1.7	45
25	Spectral broadening in continuous-wave intracavity Raman lasers. Optics Express, 2014, 22, 7492.	1.7	43
26	Cascaded self-Raman lasers based on 382 cm^â^'1 shift in Nd:GdVO_4. Optics Express, 2012, 20, 15180.	1.7	40
27	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.	1.1	39
28	An intracavity, frequency-doubled self-Raman vortex laser. Optics Express, 2014, 22, 5400.	1.7	39
29	Practical 580 nm source based on frequency doubling of an intracavity-Raman-shifted Nd:YAG laser. Optics Communications, 1998, 148, 285-288.	1.0	38
30	Stimulated polariton scattering in an intracavity RbTiOPO_4 crystal generating frequency-tunable THz output. Optics Express, 2016, 24, 10254.	1.7	38
31	A single-frequency intracavity Raman laser. Optics Express, 2019, 27, 8540.	1.7	38
32	Frequency-Tunable THz Source Based on Stimulated Polariton Scattering in ${m Mg{:}LiNbO}_{3}$. IEEE Journal of Quantum Electronics, 2013, 49, 357-364.	1.0	37
33	Efficient 1181 nm self-stimulating Raman output from transversely diode-pumped Nd3+:KGd(WO4)2 laser. Optics Communications, 2004, 232, 327-331.	1.0	35
34	Continuous wave, frequency-tunable terahertz laser radiation generated via stimulated polariton scattering. Optics Letters, 2014, 39, 442.	1.7	35
35	Multi-wavelength, all-solid-state, continuous wave mode locked picosecond Raman laser. Optics Express, 2010, 18, 5289.	1.7	34
36	A Pr3+-doped ZBLAN fibre upconversion laser pumped by an Yb3+-doped silica fibre laser. Optics Communications, 1997, 134, 139-144.	1.0	33

#	Article	IF	Citations
37	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.	1.1	33
38	Wavelength tuning and power enhancement of an intracavity Nd:GdVO₄-BaWO₄ Raman laser using an etalon. Optics Express, 2018, 26, 32145.	1.7	33
39	Cascaded stimulated polariton scattering in a Mg:LiNbO_3 terahertz laser. Optics Express, 2015, 23, 8687.	1.7	32
40	Miniature wavelength-selectable Raman laser: new insights for optimizing performance. Optics Express, 2011, 19, 25623.	1.7	29
41	Small-scale, all-solid-state, frequency-doubled intracavity Raman laser producing 5 mW yellowâ€“orange output at 598 nm. Optics Communications, 2004, 229, 305-310.	1.0	27
42	THz polariton laser using an intracavity Mg:LiNbO_3 crystal with protective Teflon coating. Optics Express, 2017, 25, 3991.	1.7	26
43	Near-infrared and orangeâ€“red emission from a continuous-wave, second-Stokes self-Raman Nd:GdVO_4 laser. Optics Letters, 2010, 35, 3000.	1.7	25
44	Efficient, miniature, cw yellow source based on an intracavity frequency-doubled Nd:YVO_4 self-Raman laser. Optics Letters, 2011, 36, 1428.	1.7	25
45	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.	1.1	24
46	Optical remote sensing of water temperature using Raman spectroscopy. Optics Express, 2015, 23, 31844.	1.7	23
47	Single-longitudinal-mode ring diamond Raman laser. Optics Letters, 2017, 42, 1229.	1.7	23
48	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.	1.1	22
49	Measurement of thermal lensing in a CW BaWO_4 intracavity Raman laser. Optics Express, 2012, 20, 9810.	1.7	22
50	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.	1.1	21
51	New approach to remote sensing of temperature and salinity in natural water samples. Optics Express, 2017, 25, 2840.	1.7	21
52	Diode-side-pumped continuous wave Nd^3+â€‰:â€‰YVO_4 self-Raman laser at 1176â€‰â€‰nm. Optics Letters, 2015, 40, 3524.	1.7	18
53	Quasi-continuous wave Raman lasers at 990 and 976â€‰â€‰nm based on a three-level Nd:YLF laser. Optics Letters, 2014, 39, 2982.	1.7	17
54	Direct generation of 1108â€…nm and 1173â€…nm Laguerre-Gaussian modes from a self-Raman Nd:GdVO₄ laser. Optics Express, 2020, 28, 24095.	1.7	17

#	Article	IF	Citations
55	Tunable 3â€“6 THz Polariton Laser Exceeding 0.1 mW Average Output Power Based on Crystalline RbTiOPO 4. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-6.	1.9	16
56	Multiwavelength ultrafast LiNbO_3 Raman laser. Optics Express, 2015, 23, 25582.	1.7	15
57	Tunable THz polariton laser based on 1342â€‰â€‰nm wavelength for enhanced terahertz wave extraction. Optics Letters, 2017, 42, 2691.	1.7	13
58	Localized Auger Recombination in Quantum-Dot Lasers. IEEE Journal of Quantum Electronics, 2007, 43, 1140-1146.	1.0	12
59	Continuous-wave VECSEL Raman laser with tunable lime-yellow-orange output. Optics Express, 2012, 20, 5219.	1.7	12
60	Investigation of blue emission from Raman-active crystals: Its origin and impact on laser performance. Optical Materials Express, 2014, 4, 889.	1.6	12
61	A continuous-wave vortex Raman laser with sum frequency generation. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	12
62	Study of relaxation oscillations in continuous-wave intracavity Raman lasers. Optics Express, 2010, 18, 11530.	1.7	11
63	Managing SRS competition in a miniature visible Nd:YVO_4/BaWO_4 Raman laser. Optics Express, 2012, 20, 19305.	1.7	11
64	Control of cascading in multiple-order Raman lasers. Optics Letters, 2012, 37, 3840.	1.7	11
65	Terahertz sources based on stimulated polariton scattering. Progress in Quantum Electronics, 2020, 71, 100254.	3.5	11
66	Efficient frequency extension of a diode-side-pumped Nd:YAG laser by intracavity SRS in crystalline materials. Optics Communications, 2004, 242, 575-579.	1.0	10
67	Modeling of wavelength-selectable visible Raman lasers. Optics Communications, 2012, 285, 3849-3854.	1.0	9
68	Intracavity frequency converted Raman laser producing 10 deep blue to cyan emission lines with up to 094â€‰â€‰W output power. Optics Letters, 2014, 39, 6799.	1.7	9
69	Analytic theory for lasers based on stimulated polariton scattering. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1706.	0.9	9
70	Transient effects in burst-mode operation of pulsed barium vapor lasers. IEEE Journal of Quantum Electronics, 1994, 30, 2376-2384.	1.0	7
71	Tunable terahertz generation in the picosecond regime from the stimulated polariton scattering in a LiNbO_3 crystal. Optics Letters, 2016, 41, 4409.	1.7	7
72	Characteristics of dischargeâ€excited barium vapor lasers operating in the 1â€“5 Î¼m spectral band. Journal of Applied Physics, 1992, 72, 5545-5554.	1.1	6

#	Article	IF	Citations
73	Efficient all-solid-state Ce:LiLuF laser source at 309 nm. Optics Communications, 2005, 252, 132-137.	1.0	6
74	Intracavity THz Polariton Source Using a Shallow-Bounce Configuration. IEEE Transactions on Terahertz Science and Technology, 2019, 9, 237-242.	2.0	5
75	Stimulated Raman scattering of barium laser output in a silica fibre. Optical and Quantum Electronics, 1991, 23, S563-S568.	1.5	4
76	Efficient amplication in the first telecommunications window. Journal of Non-Crystalline Solids, 1993, 161, 274-276.	1.5	4
77	Very compact and high-power CW self-Raman laser for ophthalmological applications. Proceedings of SPIE, 2010, , .	0.8	4
78	A LIDAR-Compatible, Multichannel Raman Spectrometer for Remote Sensing of Water Temperature. Sensors, 2019, 19, 2933.	2.1	4
79	Remote Sensing of Natural Waters Using a Multichannel, Lidar-Compatible Raman Spectrometer and Blue Excitation. Frontiers in Marine Science, 2020, 7, .	1.2	4
80	Study of Amplitude Noise in a Continuous-Wave Intracavity Frequency-Doubled Raman Laser. IEEE Journal of Quantum Electronics, 2011, 47, 314-319.	1.0	3
81	Raman lasers. , 2013, , 493-524.		3
82	Compact diode-pumped 598-nm laser source. , 2002, 4630, 57.		2
83	Raman spectral analysis for remote measurement of water temperature. Proceedings of SPIE, 2012, , .	0.8	2
84	Competition Effects Between Stimulated Raman and Polariton Scattering in Intracavity KTiOPO4 Crystal. , 2015, , .		2
85	Two new blue laser emission lines from an intracavity Raman laser. , 2014, , .		2
86	Impact of fluorescence on Raman remote sensing of temperature in natural water samples. Optics Express, 2019, 27, 22339.	1.7	2
87	Linewidth-narrowing of a continuous wave terahertz polariton laser using an intracavity etalon. Optics Letters, 2020, 45, 157.	1.7	2
88	Cavity design with single-mirror THz frequency tuning for polariton lasers. Optics Letters, 2022, 47, 3391.	1.7	2
89	Average-power scaling of the pulsed barium vapor laser. , 1990, , .		1
90	Investigation of barium laser excitation processes using laser-induced-perturbation technique. IEEE Journal of Quantum Electronics, 1993, 29, 2540-2546.	1.0	1

#	Article	IF	Citations
91	Design and operation of all-solid-state Raman lasers. , 0, , .		1
92	Laser design and energy dynamics in a wavelength-versatile, all-solid-state intracavity cascaded Raman laser. , 2005, , .		1
93	Compact continuous-wave yellow laser based on a self-stimulating Raman Nd:YVO4 laser. , 2007, , WB19.		1
94	Recombination in quantum dot ensembles. , 2007, , .		1
95	High beam quality cw 1.5 W BaWO<inf>4</inf> Raman laser using Nd:YLF as laser active medium. , 2011, , .		1
96	Continuous-wave SrMoO<inf>4</inf> intracavity Raman laser pumped using a disk laser. , 2011, , .		1
97	Study of amplitude noise in a continuous-wave intracavity frequency-doubled Raman laser. , 2011, , .		1
98	Focus issue introduction: Advanced Solid-State Lasers 2020. Optical Materials Express, 2021, 11, 952.	1.6	1
99	Geometrical Laguerre-Gaussian mode generation from an off-axis pumped Nd:GdVO4 degenerate laser. , 2021, , .		1
100	KGW and diamond picosecond visible Raman lasers. , 2010, , .		1
101	Power scaling of cw diode-pumped Yb:KGW self-Raman laser. , 0, , .		0
102	Efficient 1181nm self-stimulating Raman output from transversely diode-pumped Nd/sup 3+/:KGd(WO/sub 4/)/sub 2/ laser. , 0, , .		0
103	Highly-efficient Raman conversion of a Q-switched (ns), multi-kilohertz, 532nm laser to the yellow and orange. , 0, , .		0
104	Centre for Lasers and Applications. , 2005, , .		0
105	Developments of cw and pulsed crystalline Raman lasers for the near-infrared and visible. , 2005, , .		0
106	Analysis of localized recombination in quantum dots. , 2006, , .		0
107	Continuous-wave self-Raman and intracavity doubled laser operation in Nd:GdVO<inf>4</inf> at 586.5 nm. , 2007, , .		0
108	Efficient continuous-wave yellow output from a self-Raman composite Nd:YVO4/ YVO4 laser. , 2008, , .		0

#	Article	IF	Citations
109	Passively Q-switched and continuous-wave yellow laser formed by a self-Raman composite Nd:YVO<inf>4</inf>/ YVO<inf>4</inf> crystal. , 2009, , .		0
110	Continuous-wave mode locked yellow Raman laser at 559 nm based on a synchronously pumped KGW crystal. , 2009, , .		0
111	A continuous-wave, yellow, intracavity doubled, self-Raman laser with 2.25-W output power. , 2009, , .		0
112	A self-Raman, Nd:GdVO<inf>4</inf> laser generating 2.5W CW output at 586nm. , 2009, , .		0
113	CW Crystalline Raman Lasers: Multi-Watt and Multi-Wavelength Operation in the Visible. , 2010, , .		0
114	A continuous-wave laser with wavelength-selectable output spanning green-yellow-red. , 2011, , .		0
115	Continuous-wave second-Stokes self-Raman Nd:GdVO<inf>4</inf> laser. , 2011, , .		0
116	Diode-pumped Terahertz laser source based on stimulated polariton scattering. , 2011, , .		0
117	330 mW CW yellow emission from miniature self-Raman laser based on direct HR-coated Nd:YVO<inf>4</inf> crystal. , 2011, , .		0
118	Generation of combs of wavelengths in the infrared and visible using cascaded stimulated Raman scattering in potassium titanyl phosphate. , 2011, , .		0
119	A diode-end-pumped frequency-tunable THz source with very low threshold. , 2012, , .		0
120	Continuous-wave emission from a self-Raman vortex laser. , 2013, , .		0
121	A continuous-wave, solid-state stimulated polariton THz source. , 2013, , .		0
122	Compact yellow-orange Raman lasers. , 2013, , .		0
123	Intracavity Raman lasers at 990 nm and 976 nm based on a three-level Nd:YLF fundamental laser. , 2014, , .		0
124	Ten deep blue to cyan emission lines from an intracavity frequency converted Raman laser. , 2015, , .		0
125	Diode side pumped, quasi-CW Nd:YVO₄self-Raman laser operating at 1176 nm. Proceedings of SPIE, 2015, , .	0.8	0
126	Frequency-tunable THz polariton laser based on intracavity RbTiOPO<inf>4</inf> crystal. , 2016, , .		0

#	Article	IF	Citations
127	Single-longitudinal-mode ring diamond Raman laser. , 2017, , .		0
128	Q-switched self-Raman vortex laser using a defect mirror. , 2017, , .		0
129	Enhancing THz Emission using a Shallow-Bounce Configuration. , 2019, , .		0
130	Focus issue introduction: Advanced Solid-State Lasers 2020. Optics Express, 2021, 29, 8365.	1.7	0
131	Focus issue introduction: Advanced Solid-State Lasers 2020. Optical Materials Express, 2021, 11, 952.	1.6	0
132	Efficient potassium gadolinium tungstate Raman lasers generating single or multiple wavelengths spanning the green to red. , 2005, , .		0
133	Design and Operation of All-Solid-State, 320 mW Continuous-Wave Yellow Laser. , 2007, , .		0
134	Pulse compression dynamics in synchronously pumped continuous wave mode-locked Raman oscillators. , 2010, , .		0
135	Picosecond visible Raman lasers. , 2010, , .		0
136	Investigation of a Blue Luminescence Power in Raman Crystals. , 2012, , .		0
137	Maximising performance of compact, cw, visible self-Raman lasers by balancing non-linear SRS and SFG effects. , 2012, , .		0
138	Optical Remote Sensing of water temperature in natural water samples. , 2014, , .		0
139	Pyroelectric effects in MgO:LiNbO3 and its influence on THz generation in a polariton laser. , 2014, , .		0
140	Ten deep-blue to cyan laser emission lines from 451 nm to 495 nm using Nd:YLF-KGW-LBO intracavity Raman laser. , 2014, , .		0
141	LD-side-pumped Nd:YVO4 self-Raman laser at 1176 nm. , 2014, , .		0
142	Continuous yellow-orange laser based on a diode-side-pumped Nd3+:YVO4 self-Raman laser. , 2015, , .		0
143	Multiwavelength ultrafast LiNbO3 Raman laser with cascaded terahertz-wave generation. , 2015, , .		0
144	Multiwavelength ultrafast LiNbO3 Raman laser with cascaded terahertz-wave generation. , 2015, , .		0

#	Article	IF	Citations
145	Beneficial effects of using etalons in an intracavity CW THz polariton laser. , 2017, , .		0
146	Power improvement in a CW THz polariton laser. , 2018, , .		0
147	Intracavity diode-side-pumped Raman laser at 1147 nm and 1163 nm. , 2018, , .		0
148	1108 nm vortex mode generation from a Self-Raman Nd:GdVO4 laser. , 2020, , .		0
149	Linewidth narrowing and power enhancement in polariton lasers through the use of etalons. , 2020, , .		0