

Aaron M McKay

List of Publications by Year in descending order

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40
papers

638
citations

686830

13
h-index

642321

23
g-index

41
all docs

41
docs citations

41
times ranked

306
citing authors

#	ARTICLE	IF	CITATIONS
1	High Power Diamond Raman Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-14.	1.9	59
2	Large brightness enhancement for quasi-continuous beams by diamond Raman laser conversion. Optics Letters, 2018, 43, 563.	1.7	34
3	Wavelength diversification of high-power external cavity diamond Raman lasers using intracavity harmonic generation. Optics Express, 2018, 26, 1930.	1.7	13
4	Diamond-based concept for combining beams at very high average powers. Laser and Photonics Reviews, 2017, 11, 1600130.	4.4	12
5	Polarization conversion in cubic Raman crystals. Scientific Reports, 2017, 7, 41702.	1.6	6
6	Brightness enhancement of continuous-wave beams using a diamond Raman laser. , 2017, , .		0
7	High-gain 87 cm^{-1} Raman line of KYW and its impact on continuous-wave Raman laser operation. Optics Express, 2016, 24, 21463.	1.7	6
8	Single longitudinal mode diamond Raman laser in the eye-safe spectral region for water vapor detection. Optics Express, 2016, 24, 27812.	1.7	39
9	Birefringence and piezo-Raman analysis of single crystal CVD diamond and effects on Raman laser performance. Journal of the Optical Society of America B: Optical Physics, 2016, 33, B56.	0.9	19
10	Efficient Raman frequency conversion of high-power fiber lasers in diamond. Laser and Photonics Reviews, 2015, 9, 405-411.	4.4	89
11	Impact of cascading on the efficiency of external cavity cw Raman laser. , 2015, , .		0
12	Stress-induced optical rotation in CVD-grown diamond. , 2015, , .		0
13	Modelling and optimization of continuous-wave external cavity Raman lasers. Optics Express, 2015, 23, 8590.	1.7	37
14	SRS in the strong-focusing regime for Raman amplifiers. Optics Express, 2015, 23, 15012.	1.7	11
15	Non-Collinear Beam Combining of Kilowatt Beams in a Diamond Raman Amplifier. , 2014, , .		2
16	Power-scaling and Modelling of CW External Cavity Diamond Raman Lasers. , 2014, , .		0
17	Diamond Raman Lasers. Optics and Photonics News, 2014, 25, 42.	0.4	1
18	Thermal lens evolution and compensation in a high power KGW Raman laser. Optics Express, 2014, 22, 6707.	1.7	11

#	ARTICLE	IF	CITATIONS
19	Investigating diamond Raman lasers at the 100%W level using quasi-continuous-wave pumping. Optics Letters, 2014, 39, 4152.	1.7	53
20	High power tungstate-crystal Raman laser operating in the strong thermal lensing regime. Optics Express, 2014, 22, 707.	1.7	21
21	Simultaneous brightness enhancement and wavelength conversion to the eye-safe region in a high-power diamond Raman laser. Laser and Photonics Reviews, 2014, 8, L37.	4.4	51
22	An efficient 14.5 W diamond Raman laser at high pulse repetition rate with first (1240 nm) and second (1485 nm) Stokes output. Laser Physics Letters, 2013, 10, 105801.	0.6	32
23	The influence of distributed rare earth dopant on the performance of waveguide lasers fabricated by the femtosecond laser direct-write technique. , 2013, , .		0
24	Power scaling of efficient diamond Raman lasers with 1240 nm and 1485 nm output. , 2013, , .		0
25	High-throughput 3-dimensional time-resolved spectroscopy: simultaneous characterisation of luminescence properties in spectral and temporal domains. RSC Advances, 2013, 3, 8670.	1.7	8
26	Theoretical modeling and experiments on a DBR waveguide laser fabricated by the femtosecond laser direct-write technique. Optics Express, 2013, 21, 17701.	1.7	2
27	Characterisation of Upconversion Nanoparticles for Imaging. , 2013, , .		1
28	Characterization and Optimization of External Cavity Continuous-wave Diamond Raman Lasers. , 2013, , .		0
29	High power cw diamond Raman laser: Analysis of efficiency and parasitic loss. , 2012, , .		1
30	Continuous-wave wavelength conversion for high-power applications using an external cavity diamond Raman laser. Optics Letters, 2012, 37, 2790.	1.7	67
31	High average power (11 W) eye-safe diamond Raman laser. Proceedings of SPIE, 2012, , .	0.8	5
32	Reformatting linear beam arrays to hexagonal beam arrays using custom refractive micro-optics. , 2011, , .		0
33	CW diamond laser architecture for high average power Raman beam conversion. , 2011, , .		0
34	Effect of gain anisotropy on low-frequency dynamics in four-level solid-state lasers. Optics Express, 2009, 17, 6053.	1.7	5
35	Terahertz Generation Using a Two-frequency Highly-doped Ceramic Nd:YAG Microchip Laser. , 2009, , .		1
36	Microwave generation using a dual-helicoidally-polarized ceramic microchip laser. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
37	Polarization Mode Coupling in (100)-cut Nd:YAG. , 2007, , .		0
38	Polarisation-mode coupling in (100)-cut Nd:YAG. Optics Express, 2007, 15, 16342.	1.7	18
39	Polarisation mode coupling in (100)-cut Nd:YAG. , 2006, , .		0
40	Dual polarization operation of Nd:ceramic YAG vs Nd:YAG lasers. , 2006, , .		0