

Aaron M McKay

List of Publications by Year in descending order

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Version: 2024-02-01

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	Efficient Raman frequency conversion of high-power fiber lasers in diamond. <i>Laser and Photonics Reviews</i> , 2015, 9, 405-411.	4.4	89
2	Continuous-wave wavelength conversion for high-power applications using an external cavity diamond Raman laser. <i>Optics Letters</i> , 2012, 37, 2790.	1.7	67
3	High Power Diamond Raman Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-14.	1.9	59
4	Investigating diamond Raman lasers at the 100-W level using quasi-continuous-wave pumping. <i>Optics Letters</i> , 2014, 39, 4152.	1.7	53
5	Simultaneous brightness enhancement and wavelength conversion to the eye-safe region in a high-power diamond Raman laser. <i>Laser and Photonics Reviews</i> , 2014, 8, L37.	4.4	51
6	Single longitudinal mode diamond Raman laser in the eye-safe spectral region for water vapor detection. <i>Optics Express</i> , 2016, 24, 27812.	1.7	39
7	Modelling and optimization of continuous-wave external cavity Raman lasers. <i>Optics Express</i> , 2015, 23, 8590.	1.7	37
8	Large brightness enhancement for quasi-continuous beams by diamond Raman laser conversion. <i>Optics Letters</i> , 2018, 43, 563.	1.7	34
9	An efficient 14.5 W diamond Raman laser at high pulse repetition rate with first (1240 nm) and second (1485 nm) Stokes output. <i>Laser Physics Letters</i> , 2013, 10, 105801.	0.6	32
10	High power tungstate-crystal Raman laser operating in the strong thermal lensing regime. <i>Optics Express</i> , 2014, 22, 707.	1.7	21
11	Birefringence and piezo-Raman analysis of single crystal CVD diamond and effects on Raman laser performance. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, B56.	0.9	19
12	Polarisation-mode coupling in (100)-cut Nd:YAG. <i>Optics Express</i> , 2007, 15, 16342.	1.7	18
13	Wavelength diversification of high-power external cavity diamond Raman lasers using intracavity harmonic generation. <i>Optics Express</i> , 2018, 26, 1930.	1.7	13
14	Diamond-based concept for combining beams at very high average powers. <i>Laser and Photonics Reviews</i> , 2017, 11, 1600130.	4.4	12
15	Thermal lens evolution and compensation in a high power KGW Raman laser. <i>Optics Express</i> , 2014, 22, 6707.	1.7	11
16	SRS in the strong-focusing regime for Raman amplifiers. <i>Optics Express</i> , 2015, 23, 15012.	1.7	11
17	High-throughput 3-dimensional time-resolved spectroscopy: simultaneous characterisation of luminescence properties in spectral and temporal domains. <i>RSC Advances</i> , 2013, 3, 8670.	1.7	8
18	High-gain 87 cm ⁻¹ Raman line of KYW and its impact on continuous-wave Raman laser operation. <i>Optics Express</i> , 2016, 24, 21463.	1.7	6

#	ARTICLE	IF	CITATIONS
19	Polarization conversion in cubic Raman crystals. Scientific Reports, 2017, 7, 41702.	1.6	6
20	Effect of gain anisotropy on low-frequency dynamics in four-level solid-state lasers. Optics Express, 2009, 17, 6053.	1.7	5
21	High average power (11 W) eye-safe diamond Raman laser. Proceedings of SPIE, 2012, , .	0.8	5
22	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
23	Non-Collinear Beam Combining of Kilowatt Beams in a Diamond Raman Amplifier. , 2014, , .		2
24	High power cw diamond Raman laser: Analysis of efficiency and parasitic loss. , 2012, , .		1
25	Diamond Raman Lasers. Optics and Photonics News, 2014, 25, 42.	0.4	1
26	Characterisation of Upconversion Nanoparticles for Imaging. , 2013, , .		1
27	Terahertz Generation Using a Two-frequency Highly-doped Ceramic Nd:YAG Microchip Laser. , 2009, , .		1
28	Polarisation mode coupling in (100)-cut Nd:YAG. , 2006, , .		0
29	Dual polarization operation of Nd:ceramic YAG vs Nd:YAG lasers. , 2006, , .		0
30	Polarization Mode Coupling in (100)-cut Nd:YAG. , 2007, , .		0
31	Microwave generation using a dual-helicoidally-polarized ceramic microchip laser. , 2008, , .		0
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	The influence of distributed rare earth dopant on the performance of waveguide lasers fabricated by the femtosecond laser direct-write technique. , 2013, , .		0
35	Power scaling of efficient diamond Raman lasers with 1240 nm and 1485 nm output. , 2013, , .		0
36	Power-scaling and Modelling of CW External Cavity Diamond Raman Lasers. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
37	Impact of cascading on the efficiency of external cavity cw Raman laser. , 2015, , .		0
38	Stress-induced optical rotation in CVD-grown diamond. , 2015, , .		0
39	Brightness enhancement of continuous-wave beams using a diamond Raman laser. , 2017, , .		0
40	Characterization and Optimization of External Cavity Continuous-wave Diamond Raman Lasers. , 2013, , .		0