

# Ondrej Kitzler

## List of Publications by Year in descending order

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58  
papers

966  
citations

430442

18  
h-index

454577

30  
g-index

59  
all docs

59  
docs citations

59  
times ranked

337  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stimulated Brillouin scattering materials, experimental design and applications: A review. <i>Optical Materials</i> , 2018, 75, 626-645.	1.7	94
2	Efficient Raman frequency conversion of high-power fiber lasers in diamond. <i>Laser and Photonics Reviews</i> , 2015, 9, 405-411.	4.4	89
3	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
4	High Power Diamond Raman Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-14.	1.9	59
5	Intrinsically stable high-power single longitudinal mode laser using spatial hole burning free gain. <i>Optica</i> , 2016, 3, 876.	4.8	58
6	Investigating diamond Raman lasers at the 100-W level using quasi-continuous-wave pumping. <i>Optics Letters</i> , 2014, 39, 4152.	1.7	53
7	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
8	Diamond Brillouin laser in the visible. <i>APL Photonics</i> , 2020, 5, .	3.0	51
9	Single-frequency 620-nm diamond laser at high power, stabilized via harmonic self-suppression and spatial-hole-burning-free gain. <i>Optics Letters</i> , 2019, 44, 839.	1.7	42
10	Diamond sodium guide star laser. <i>Optics Letters</i> , 2020, 45, 1898.	1.7	41
11	Modelling and optimization of continuous-wave external cavity Raman lasers. <i>Optics Express</i> , 2015, 23, 8590.	1.7	37
12	Large brightness enhancement for quasi-continuous beams by diamond Raman laser conversion. <i>Optics Letters</i> , 2018, 43, 563.	1.7	34
13	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
14	302 W quasi-continuous cascaded diamond Raman laser at 15 microns with large brightness enhancement. <i>Optics Express</i> , 2018, 26, 19797.	1.7	29
15	12-kW quasi-steady-state diamond Raman laser pumped by an M <sup>2</sup> = 15 beam. <i>Optics Letters</i> , 2019, 44, 2506.	1.7	28
16	Single-longitudinal-mode ring diamond Raman laser. <i>Optics Letters</i> , 2017, 42, 1229.	1.7	23
17	High power tungstate-crystal Raman laser operating in the strong thermal lensing regime. <i>Optics Express</i> , 2014, 22, 707.	1.7	21
18	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

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19	Single-longitudinal-mode diamond laser stabilization using polarization-dependent Raman gain. OSA Continuum, 2019, 2, 1028.	1.8	15
20	Analysis of a thermal lens in a diamond Raman laser operating at 1.1 kW output power. Optics Express, 2020, 28, 15232.	1.7	14
21	Wavelength diversification of high-power external cavity diamond Raman lasers using intracavity harmonic generation. Optics Express, 2018, 26, 1930.	1.7	13
22	Investigating single-longitudinal-mode operation of a continuous wave second Stokes diamond Raman ring laser. Optics Express, 2020, 28, 1738.	1.7	13
23	Thermal lens evolution and compensation in a high power KGW Raman laser. Optics Express, 2014, 22, 6707.	1.7	11
24	High-gain $87\text{ cm}^{-1}$ Raman line of KYW and its impact on continuous-wave Raman laser operation. Optics Express, 2016, 24, 21463.	1.7	6
25	High average power (11 W) eye-safe diamond Raman laser. Proceedings of SPIE, 2012, , .	0.8	5
26	Generalised theory of polarisation modes for resonators containing birefringence and anisotropic gain. Optics Express, 2019, 27, 17209.	1.7	5
27	Linewidth narrowing of a tunable mode-locked pumped continuous-wave Ce:LiCAF laser. Optics Letters, 2015, 40, 3065.	1.7	4
28	Diamond Raman laser in eye safe region. , 2011, , .		3
29	Modelling and characterisation of continuous wave resonantly pumped diamond Raman lasers. Optics Express, 2021, 29, 18427.	1.7	3
30	Generation of sub-100-fs ultraviolet pulses from a Kerr-lens mode-locked Ce:LiCAF laser. Applied Optics, 2021, 60, 8316.	0.9	3
31	Cavity design with single-mirror THz frequency tuning for polariton lasers. Optics Letters, 2022, 47, 3391.	1.7	2
32	CVD-diamond external cavity Raman laser operating at 1632 nm. , 2011, , .		1
33	High energy intracavity pumped eye-safe BaWO <sub>4</sub> Raman laser. Proceedings of SPIE, 2013, , .	0.8	1
34	Diamond Raman Lasers. Optics and Photonics News, 2014, 25, 42.	0.4	1
35	Continuous-wave ultraviolet Ce:LiCAF laser. , 2015, , .		1
36	Femtosecond Ultraviolet Pulses Generated Directly From a Mode-Locked Ce:LiCAF Laser. , 2020, , .		1

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37	Asynchronous Cross-Correlation Using a Time Reference. , 2020, , .		1
38	Observation of stimulated Brillouin scattering and Brillouin frequency comb generation in diamond. , 2018, , .		1
39	CW diamond laser architecture for high average power Raman beam conversion. , 2011, , .		0
40	Power scaling of efficient diamond Raman lasers with 1240 nm and 1485 nm output. , 2013, , .		0
41	Power-scaling and Modelling of CW External Cavity Diamond Raman Lasers. , 2014, , .		0
42	Impact of cascading on the efficiency of external cavity cw Raman laser. , 2015, , .		0
43	Stress-induced optical rotation in CVD-grown diamond. , 2015, , .		0
44	High-power single-pass pumped diamond Raman laser. , 2017, , .		0
45	High power single-longitudinal-mode diamond laser using HÄnsch-Couillaud-type stabilization. , 2017, , .		0
46	Single-longitudinal-mode ring diamond Raman laser. , 2017, , .		0
47	Single-longitudinal-mode diamond Raman lasers in the near-infrared spectral region. , 2017, , .		0
48	High-Power Single-Frequency 620 nm Laser Based on Diamond Raman and Intracavity Frequency Doubling. , 2019, , .		0
49	Quantum-randomized polarization of laser pulses derived from zero-point diamond motion. Optics Express, 2021, 29, 894.	1.7	0
50	Transient Frequency Dynamics in Single-Longitudinal-Mode Diamond Raman Lasers. , 2021, , .		0
51	Continuous-Wave Brillouin Laser Using Bulk Diamond. , 2018, , .		0
52	A Free-space Brillouin Laser Using Diamond. , 2018, , .		0
53	High-power single-pass pumped diamond Raman oscillator. , 2018, , .		0
54	High-power single-pass pumped diamond Raman oscillator. , 2018, , .		0

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55	High-power single-frequency 620 nm diamond laser. , 2019, , .		0
56	High Raman gain directions in diamond. , 2020, , .		0
57	Diamond Sodium Guide Star Laser. , 2020, , .		0
58	Continuous Wave Resonantly Pumped Second Stokes Diamond Raman Laser. , 2020, , .		0