Lukasz A Sterczewski

List of Publications by Year
in descending order

47 papers	545 citations	686830 13 h-index	642321 23 g-index
47 all docs	47 docs citations	47 times ranked	504 citing authors

#	Article	IF	Citations
1	Passively mode-locked interband cascade optical frequency combs. Scientific Reports, 2018, 8, 3322.	1.6	75
2	Computational coherent averaging for free-running dual-comb spectroscopy. Optics Express, 2019, 27, 23875.	1.7	69
3	Terahertz hyperspectral imaging with dual chip-scale combs. Optica, 2019, 6, 766.	4.8	65
4	Mid-infrared dual-comb spectroscopy with interband cascade lasers. Optics Letters, 2019, 44, 2113.	1.7	49
5	Mid-infrared multiheterodyne spectroscopy with phase-locked quantum cascade lasers. Applied Physics Letters, 2017, 110, .	1.5	39
6	Computational Doppler-limited dual-comb spectroscopy with a free-running all-fiber laser. APL Photonics, 2019, 4, .	3.0	33
7	Terahertz Spectroscopy of Gas Mixtures with Dual Quantum Cascade Laser Frequency Combs. ACS Photonics, 2020, 7, 1082-1087.	3.2	33
8	Mid-infrared dual-comb spectroscopy with room-temperature bi-functional interband cascade lasers and detectors. Applied Physics Letters, 2020, 116, .	1.5	30
9	Frequency-modulated diode laser frequency combs at 2 Î¼m wavelength. APL Photonics, 2020, 5, .	3.0	24
10	Interband cascade laser frequency combs. JPhys Photonics, 2021, 3, 042003.	2.2	19
11	Dual-comb spectroscopy using plasmon-enhanced-waveguide dispersion-compensated quantum cascade lasers. Optics Letters, 2018, 43, 4522.	1.7	18
12	Dualâ€Comb Femtosecond Solidâ€State Laser with Inherent Polarizationâ€Multiplexing. Laser and Photonics Reviews, 2021, 15, 2000441.	4.4	17
13	Molecular dispersion spectroscopy based on Fabryâ€“Perot quantum cascade lasers. Optics Letters, 2017, 42, 243.	1.7	14
14	Bayesian separation algorithm of THz spectral sources applied to D-glucose monohydrate dehydration kinetics. Chemical Physics Letters, 2016, 644, 45-50.	1.2	10
15	Chemometric Evaluation of THz Spectral Similarity for the Selection of Early Drug Candidates. Scientific Reports, 2017, 7, 14583.	1.6	9
16	Cavity-Enhanced Vernier Spectroscopy with a Chip-Scale Mid-Infrared Frequency Comb. ACS Photonics, 2022, 9, 994-1001.	3.2	6
17	Subsampling dual-comb spectroscopy. Optics Letters, 2020, 45, 4895.	1.7	5
18	Terahertz antenna electronic chopper. Review of Scientific Instruments, 2016, 87, 014702.	0.6	4

#	Article	IF	Citations
19	Waveguiding and dispersion properties of interband cascade laser frequency combs. , 2021, , .		4
20	Near-infrared frequency comb generation in mid-infrared interband cascade lasers. Optics Letters, 2019, 44, 5828.	1.7	4
21	Piroxicam derivatives THz classification. , 2016, , .		3
22	Cast terahertz lenses made of caramelized sucrose. Optical Engineering, 2016, 55, 090505.	0.5	3
23	Multi-heterodyne spectroscopy using Fabry-Perot interband cascade lasers for trace gas detection: a feasibility assessment. Proceedings of SPIE, 2017, , .	0.8	2
24	Toward robust and practical interband cascade laser frequency combs: A perspective. Applied Physics Letters, 2021, 119, 230503.	1.5	2
25	Thermodynamics of new piroxicam derivatives in terahertz light. , 2014, , .		1
26	Chemometrics of bi-heterocyclic kind of drug specimens in the THz domain. , 2016, , .		1
27	Terahertz multiheterodyne spectroscopy with quantum cascade lasers â€" A feasibility study. , 2017, , .		1
28	Terahertz dual-comb spectroscopy using quantum cascade laser frequency combs. , 2018, , .		1
29	Multiheterodyne spectroscopy with interband cascade lasers. , 2017, , .		1
30	Tuning properties of mid-infrared Fabry-PÃ©rot quantum cascade lasers for multiheterodyne spectroscopy. Photonics Letters of Poland, 2016, 8, 113.	0.2	1
31	Quantum cascade laser-based dual-comb spectroscopy in the mid-infrared. , 2018, , .		1
32	Dual-dispersion-regime dual-comb mode-locked laser. Optics Letters, 2022, 47, 1762.	1.7	1
33	Heating system of pellet samples integrated with terahertz spectrometer. Review of Scientific Instruments, 2016, 87, 013106.	0.6	0
34	Terahertz investigations on some bi-heterocyclic compounds. , 2016, , .		0
35	Broadband mid-infrared and THz chemical detection with quantum cascade laser multi-heterodyne spectrometers (Conference Presentation). , 2017, , .		0
36	Mode-resolved Cavity-enhanced Vernier Spectroscopy Using an Interband Cascade Laser Frequency Comb. , 2021, , .		0

#	Article	IF	Citations
37	Multi-heterodyne spectroscopic techniques using Fabry-PÃ©rot quantum cascade lasers for trace gas detection. , 2016, , .		0
38	Self-heterodyne Characterization of a Fabry-PÃ©rot Quantum Cascade Laser for Multi-heterodyne Spectroscopic Sensing. , 2016, , .		0
39	Multi-heterodyne dispersion spectroscopy using Fabry-PÃ©rot quantum cascade lasers. , 2016, , .		0
40	Computational adaptive sampling for multiheterodyne spectroscopy. , 2017, , .		0
41	Interband Cascade Laser-based Dual-Comb Spectroscopy for Methane Sensing. , 2018, , .		0
42	Dual-comb spectroscopy with passively mode-locked interband cascade laser frequency combs. , 2018, , .		0
43	Laser and Fiber Electronics Group. Photonics Letters of Poland, 2019, 11, 38.	0.2	0
44	Passively mode-locked interband cascade lasers. , 2019, , .		0
45	Dual-comb characterization of bound soliton states in a single-cavity dual-comb laser. , 2020, , .		0
46	Dual-Comb Spectroscopy in the 2 pm Region Using Quantum Well Diode Lasers. , 2020, , .		0
47	Lateral far-field characteristics of interband cascade laser frequency combs. , 2021, , .		0