

Roland Ackermann

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

508
citations

933447

10
h-index

794594

19
g-index

30
all docs

30
docs citations

30
times ranked

510
citing authors

#	ARTICLE	IF	CITATIONS
1	LAB BUDDY SYSTEM FOR HYBRID PRACTICAL TRAINING AND THE INTEGRATION OF ONLINE STUDENTS INTO THE STUDENT COMMUNITY. EDULEARN Proceedings, 2022, , .	0.0	0
2	Heat and mass transfer analysis of a high-pressure TGA with defined gas flow for single-particle studies. Chemical Engineering Journal, 2021, 411, 128503.	12.7	8
3	Tunable femtosecond optical parametric amplifier pumped by 1 kHz ultrafast thin-disk laser pulses for coherent anti-Stokes Raman scattering. , 2021, , .		0
4	<i>In situ</i> investigation of carbon gasification using ultrabroadband coherent anti-Stokes Raman scattering. Applied Physics Letters, 2021, 119, 243905.	3.3	2
5	Atomic-resolution mapping of transcription factor-DNA interactions by femtosecond laser crosslinking and mass spectrometry. Nature Communications, 2020, 11, 3019.	12.8	9
6	Lasing of N_2^+ induced by filamentation in air as a probe for femtosecond coherent anti-Stokes Raman scattering. Optics Letters, 2020, 45, 3661.	3.3	21
7	Nonresonant signal assisted high-pressure multi-species gas concentration measurements using ultrabroadband CARS. OSA Continuum, 2020, 3, 2036.	1.8	3
8	Gas Concentration Measurements Based on Ultrabroadband Coherent Anti-Stokes Raman Scattering Using the Non-resonant Signal. , 2020, , .		0
9	Temperature and gas concentration measurements with vibrational ultra-broadband two-beam femtosecond/picosecond coherent anti-Stokes Raman scattering and spontaneous Raman scattering. Journal of Raman Spectroscopy, 2019, 50, 1268-1275.	2.5	20
10	Femtosecond coherent anti-Stokes Raman scattering (fs-CARS) for temperature and concentration measurements on combustion species using a dual output OPCPA. EPJ Web of Conferences, 2019, 205, 06010.	0.3	0
11	Femtosecond Coherent Anti-Stokes Raman Scattering Measurement of Gas Temperature Simultaneously from H ₂ , N ₂ and CO ₂ . , 2019, , .		0
12	CARS-imaging guidance for fs-laser ablation precision surgery. Analyst, The, 2019, 144, 7310-7317.	3.5	9
13	In-situ investigation of single particle gasification in a defined gas flow applying TGA with optical measurements. Fuel, 2017, 194, 544-556.	6.4	19
14	Ultra-broadband two beam CARS using femtosecond laser pulses. Vibrational Spectroscopy, 2016, 85, 128-133.	2.2	18
15	Simultaneous spatial and temporal focusing: a route towards confined nonlinear materials processing. , 2016, , .		2
16	Femtosecond Two-Beam Coherent Anti-Stokes Raman Scattering for High Pressure Gas Analysis. , 2016, , .		1
17	Analysis of laser induced plasma in air using broadband femtosecond coherent Anti-Stokes Raman scattering. , 2016, , .		1
18	Enhancing precision in fs-laser material processing by simultaneous spatial and temporal focusing. Light: Science and Applications, 2014, 3, e169-e169.	16.6	91

#	ARTICLE	IF	CITATIONS
19	Optical side-effects of fs-laser treatment in refractive surgery investigated by means of a model eye. Biomedical Optics Express, 2013, 4, 220.	2.9	20
20	Pump-probe investigation of fs-LIOB in water by simultaneous spatial and temporal focusing. , 2013, , .		6
21	An in vitro study on focusing fs-laser pulses into ocular media for ophthalmic surgery. Lasers in Surgery and Medicine, 2013, 45, 589-596.	2.1	10
22	Pig Lenses in a Lens Stretcher. Optometry and Vision Science, 2012, 89, 908-915.	1.2	10
23	Analysis of optical side-effects of fs-laser therapy in human presbyopic lens simulated with modified contact lenses. Graefe's Archive for Clinical and Experimental Ophthalmology, 2012, 250, 1813-1825.	1.9	7
24	Femtosecond laser treatment of the crystalline lens: a 1-year study of possible cataractogenesis in minipigs. Graefe's Archive for Clinical and Experimental Ophthalmology, 2011, 249, 1567-1573.	1.9	12
25	Femtosecond fiber laser system for medical applications. Proceedings of SPIE, 2009, , .	0.8	6
26	Electric events synchronized with laser filaments in thunderclouds. Optics Express, 2008, 16, 5757.	3.4	152
27	Laser noise reduction in air. Applied Physics Letters, 2006, 88, 251112.	3.3	10
28	Improved laser triggering and guiding of meqavolt discharges with dual fs-ns pulses. Applied Physics Letters, 2006, 88, 021101.	3.3	57
29	Progress towards lightning control using lasers. Journal of the European Optical Society-Rapid Publications, 0, 3, .	1.9	14