

Roland Ackermann

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2988535/publications.pdf>

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	Electric events synchronized with laser filaments in thunderclouds. <i>Optics Express</i> , 2008, 16, 5757.	3.4	152
2	Enhancing precision in fs-laser material processing by simultaneous spatial and temporal focusing. <i>Light: Science and Applications</i> , 2014, 3, e169-e169.	16.6	91
3	Improved laser triggering and guiding of megavolt discharges with dual fs-ns pulses. <i>Applied Physics Letters</i> , 2006, 88, 021101.	3.3	57
4	Lasing of N_2^+ induced by filamentation in air as a probe for femtosecond coherent anti-Stokes Raman scattering. <i>Optics Letters</i> , 2020, 45, 3661.	3.3	21
5	Optical side-effects of fs-laser treatment in refractive surgery investigated by means of a model eye. <i>Biomedical Optics Express</i> , 2013, 4, 220.	2.9	20
6	Temperature and gas concentration measurements with vibrational ultra-broadband two-beam femtosecond/picosecond coherent anti-Stokes Raman scattering and spontaneous Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1268-1275.	2.5	20
7	In-situ investigation of single particle gasification in a defined gas flow applying TGA with optical measurements. <i>Fuel</i> , 2017, 194, 544-556.	6.4	19
8	Ultra-broadband two beam CARS using femtosecond laser pulses. <i>Vibrational Spectroscopy</i> , 2016, 85, 128-133.	2.2	18
9	Progress towards lightning control using lasers. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 3, .	1.9	14
10	Femtosecond laser treatment of the crystalline lens: a 1-year study of possible cataractogenesis in minipigs. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2011, 249, 1567-1573.	1.9	12
11	Laser noise reduction in air. <i>Applied Physics Letters</i> , 2006, 88, 251112.	3.3	10
12	Pig Lenses in a Lens Stretcher. <i>Optometry and Vision Science</i> , 2012, 89, 908-915.	1.2	10
13	An in vitro study on focusing fs-laser pulses into ocular media for ophthalmic surgery. <i>Lasers in Surgery and Medicine</i> , 2013, 45, 589-596.	2.1	10
14	CARS-imaging guidance for fs-laser ablation precision surgery. <i>Analyst, The</i> , 2019, 144, 7310-7317.	3.5	9
15	Atomic-resolution mapping of transcription factor-DNA interactions by femtosecond laser crosslinking and mass spectrometry. <i>Nature Communications</i> , 2020, 11, 3019.	12.8	9
16	Heat and mass transfer analysis of a high-pressure TGA with defined gas flow for single-particle studies. <i>Chemical Engineering Journal</i> , 2021, 411, 128503.	12.7	8
17	Analysis of optical side-effects of fs-laser therapy in human presbyopic lens simulated with modified contact lenses. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2012, 250, 1813-1825.	1.9	7
18	Femtosecond fiber laser system for medical applications. <i>Proceedings of SPIE</i> , 2009, , .	0.8	6

#	ARTICLE	IF	CITATIONS
19	Pump-probe investigation of fs-LIOB in water by simultaneous spatial and temporal focusing. , 2013, , .		6
20	Nonresonant signal assisted high-pressure multi-species gas concentration measurements using ultrabroadband CARS. OSA Continuum, 2020, 3, 2036.	1.8	3
21	Simultaneous spatial and temporal focusing: a route towards confined nonlinear materials processing. , 2016, , .		2
22	<i>In situ</i> investigation of carbon gasification using ultrabroadband coherent anti-Stokes Raman scattering. Applied Physics Letters, 2021, 119, 243905.	3.3	2
23	Femtosecond Two-Beam Coherent Anti-Stokes Raman Scattering for High Pressure Gas Analysis. , 2016, , .		1
24	Analysis of laser induced plasma in air using broadband femtosecond coherent Anti-Stokes Raman scattering. , 2016, , .		1
25	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
26	Femtosecond Coherent Anti-Stokes Raman Scattering Measurement of Gas Temperature Simultaneously from H ₂ , N ₂ and CO ₂ . , 2019, , .		0
27	Tunable femtosecond optical parametric amplifier pumped by 1 kHz ultrafast thin-disk laser pulses for coherent anti-Stokes Raman scattering. , 2021, , .		0
28	Gas Concentration Measurements Based on Ultrabroadband Coherent Anti-Stokes Raman Scattering Using the Non-resonant Signal. , 2020, , .		0
29	LAB BUDDY SYSTEM FOR HYBRID PRACTICAL TRAINING AND THE INTEGRATION OF ONLINE STUDENTS INTO THE STUDENT COMMUNITY. EDULEARN Proceedings, 2022, , .	0.0	0