

Daria Mokrousova

List of Publications by Year in descending order

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55
papers

346
citations

840776

11
h-index

940533

16
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56
all docs

56
docs citations

56
times ranked

162
citing authors

#	ARTICLE	IF	CITATIONS
1	Filamentation of femtosecond laser pulses governed by variable wavefront distortions via a deformable mirror. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2257.	2.1	30
2	Fifteen meter long uninterrupted filaments from sub-terawatt ultraviolet pulse in air. Optics Express, 2017, 25, 25386.	3.4	26
3	Fusion of regularized femtosecond filaments in air: far field on-axis emission. Laser Physics Letters, 2016, 13, 116005.	1.4	18
4	Q-switched slab RF discharge CO laser. Laser Physics Letters, 2017, 14, 055001.	1.4	18
5	Sum-frequency generation of Q-switched CO laser radiation in BaGa ₂ GeSe ₆ and GaSe nonlinear crystals. Optical and Quantum Electronics, 2018, 50, 1.	3.3	17
6	Major pathway for multiphoton air ionization at 248 nm laser wavelength. Applied Physics Letters, 2017, 111, 224104.	3.3	16
7	Experimental capabilities of the GARPUN MTW Ti : sapphire KrF laser facility for investigating the interaction of subpicosecond UV pulses with targets. Quantum Electronics, 2017, 47, 319-326.	1.0	15
8	Postfilament supercontinuum on 100 m path in air. Optics Letters, 2021, 46, 1125.	3.3	15
9	Flat-top THz directional diagram of a DC-biased filament. Optics Letters, 2021, 46, 5497.	3.3	15
10	Plasma channels during filamentation of a femtosecond laser pulse with wavefront astigmatism in air. Quantum Electronics, 2014, 44, 1085-1090.	1.0	13
11	Remote triggering of air-gap discharge by a femtosecond laser filament and postfilament at distances up to 80 m. Applied Physics Letters, 2021, 119, .	3.3	13
12	High intensive light channel formation in the post-filamentation region of ultrashort laser pulses in air. Journal of Optics (United Kingdom), 2016, 18, 095503.	2.2	10
13	Arrangement of multiple UV filaments by periodic amplitude masks. Nuclear Instruments & Methods in Physics Research B, 2017, 402, 331-335.	1.4	9
14	Similarity of angular distribution for THz radiation emitted by laser filament plasma channels of different lengths. Optics Letters, 2020, 45, 4009.	3.3	9
15	Comparative analysis of post-focal filamentation of focused UV and IR laser pulses in air. Quantum Electronics, 2015, 45, 321-329.	1.0	8
16	Kerr self-defocusing of multiple filaments in TW peak power UV laser beam. Laser Physics Letters, 2016, 13, 125404.	1.4	8
17	Plasma channels under filamentation of infrared and ultraviolet double femtosecond laser pulses. Laser Physics Letters, 2014, 11, 016002.	1.4	7
18	The influence of the energy reservoir on the plasma channel in focused femtosecond laser beams. Laser Physics, 2015, 25, 065402.	1.2	7

#	ARTICLE	IF	CITATIONS
19	Post-filamentation propagation of high-power laser pulses in air in the regime of narrowly focused light channels. Quantum Electronics, 2016, 46, 1009-1014.	1.0	7
20	Energy limit for linear-to-nonlinear femtosecond laser pulse focusing in air. Optics and Laser Technology, 2021, 143, 107377.	4.6	7
21	Third-harmonic generation from regularized converging filaments. Journal of the Optical Society of America B: Optical Physics, 2019, 36, A66.	2.1	7
22	Frequency-angular distribution for terahertz emission of single-color laser filament plasma under an electrostatic field. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2168.	2.1	6
23	Influence of air humidity on 248-nm ultraviolet laser pulse filamentation. Optics Letters, 2019, 44, 2165.	3.3	6
24	Balance of emission from THz sources in DC-biased and unbiased filaments in air. Optics Express, 2021, 29, 40687.	3.4	6
25	Tracing Air-Breakdown Plasma Characteristics from Single-Color Filament Terahertz Spectra. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 1105-1113.	2.2	5
26	Ultrafast and slow Mn ²⁺ luminescence in lithium tetraborate. Journal of Alloys and Compounds, 2021, 883, 160852.	5.5	5
27	Energy, spectral, and angular properties of post-filamentation channels during propagation in air and condensed media. Journal of the Optical Society of America B: Optical Physics, 2019, 36, C19.	2.1	5
28	Range of multiple filamentation of a terawatt-power large-aperture KrF laser beam in atmospheric air. Journal of the Optical Society of America B: Optical Physics, 2019, 36, C25.	2.1	5
29	Effect of nonlinearity in the pass-through optics on femtosecond laser filament in air. Laser Physics Letters, 2015, 12, 015403.	1.4	4
30	Terahertz emission from a single-color ultraviolet filament. Laser Physics Letters, 2019, 16, 105403.	1.4	4
31	Transformation of the frequency-angular spectrum of THz emissions produced by a single-color laser filament under an external electrostatic field of various strength. Laser Physics Letters, 2021, 18, 115401.	1.4	4
32	Spectroscopy based on target luminescence caused by interaction with UV filaments. Laser Physics Letters, 2015, 12, 065701.	1.4	3
33	Tracing Evolution of Angle-Wavelength Spectrum along the 40-m Postfilament in Corridor Air. Photonics, 2021, 8, 446.	2.0	3
34	Remote sensing for oil products on water surface via fluorescence induced by UV filaments. , 2016, , .		2
35	Detection of thin oil films on the water surface with the help of UV filaments. Atmospheric and Oceanic Optics, 2016, 29, 339-341.	1.3	2
36	Spectral-angular patterns and energy threshold for linear-to-nonlinear femtosecond laser pulse focusing in air. Laser Physics, 2021, 31, 075402.	1.2	2

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37	Femtosecond laser filament and plasma channels in focused beam in air. Proceedings of SPIE, 2015, , .	0.8	1
38	Parameters of intense light channels during the postfilamentation stage of ultrashort laser radiation evolution. Atmospheric and Oceanic Optics, 2017, 30, 217-221.	1.3	1
39	Origin of the redshifted hump in the spectrum of an ultrashort laser pulse under its filamentation in atomic and molecular gases. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2230.	2.1	1
40	Femtosecond laser pulse filamentation with wave front modulation via pass-trough optics. , 2014, , .		0
41	Filamentation of IR and UV double femtosecond laser pulses. , 2014, , .		0
42	Filamentation of focused femtosecond laser pulse and plasma channel formation in the vicinity of geometric focus. , 2014, , .		0
43	Q-switched cryogenically cooled slab RF discharge CO laser. , 2016, , .		0
44	Detecting of thin oil films on water surface via UV filaments. , 2016, , .		0
45	Filamentation of four beams under focusing in air. , 2016, , .		0
46	Post-filamentation high-intensive light channels formation upon ultrashort laser pulses self-focusing in air. Proceedings of SPIE, 2017, , .	0.8	0
47	Influence of dispersion stretching of ultrashort UV laser pulse on the critical power for self-focusing. Laser Physics, 2018, 28, 045405.	1.2	0
48	Enhancement of the third harmonic generation during interaction of several beams. , 2018, , .		0
49	Interaction of filaments in IR and UV spectral domains. , 2018, , .		0
50	The Control of Beam Filamentation under Amplification and Transportation of Subpicosecond TW KrF Laser Pulses in Ambient Air. , 2018, , .		0
51	Comparison of terahertz radiation spectra emitted from single-color IR and UV filaments. , 2019, , .		0
52	Role of ozone in cryogenic plasma of carbon monoxide laser. , 2019, , .		0
53	Enhancement of third harmonic yield in fused filaments due to Gouy shift suppression. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1406.	2.1	0
54	Filaments and post-filaments formation during high-power Ti:sapphire laser pulses propagation in air and optical glasses. , 2020, , .		0

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55	Spectra of terahertz radiation generated in single-color filament. , 2020, , .		0