

Robert Fedosejevs

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

54
papers

744
citations

15
h-index

25
g-index

73
ext. papers

880
ext. citations

2.9
avg, IF

3.77
L-index

#	Paper	IF	Citations
54	Single and multiple shot near-infrared femtosecond laser pulse ablation thresholds of copper. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 729-735	2.6	81
53	Experimental and theoretical study of absorption of femtosecond laser pulses in interaction with solid copper targets. <i>Physical Review B</i> , 2009 , 79,	3.3	56
52	Pressure dependence of emission intensity in femtosecond laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 1295-1301	3.7	51
51	Passively Q-switched Ytterbium-Doped Double-Clad Fiber Laser With a Cr ⁴⁺ :YAG Saturable Absorber. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1979-1981	2.2	47
50	Quasi-monoenergetic electron beams generated from 7 TW laser pulses in N ₂ and He gas targets. <i>Laser and Particle Beams</i> , 2008 , 26, 147-155	0.9	46
49	Quasimonoenergetic electron beams from laser wakefield acceleration in pure nitrogen. <i>Applied Physics Letters</i> , 2012 , 100, 074101	3.4	34
48	Observation of long-range dipole-dipole interactions in hyperbolic metamaterials. <i>Science Advances</i> , 2018 , 4, eaar5278	14.3	34
47	Development of laser-induced breakdown spectroscopy for microanalysis applications. <i>Laser and Particle Beams</i> , 2008 , 26, 95-104	0.9	27
46	Mode conversion efficiency to Laguerre-Gaussian OAM modes using spiral phase optics. <i>Optics Express</i> , 2017 , 25, 17382-17392	3.3	23
45	Optical properties of porous nanostructured Y ₂ O ₃ :Eu thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2005 , 23, 856-861	2.9	23
44	Collisionless shock acceleration of narrow energy spread ion beams from mixed species plasmas using 1 μm lasers. <i>Physical Review Accelerators and Beams</i> , 2018 , 21,	1.8	22
43	Laser wakefield generated X-ray probe for femtosecond time-resolved measurements of ionization states of warm dense aluminum. <i>Review of Scientific Instruments</i> , 2013 , 84, 123106	1.7	20
42	Reduced Ensemble Plasmon Line Widths and Enhanced Two-Photon Luminescence in Anodically Formed High Surface Area Au-TiO ₂ 3D Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 740-749	9.5	17
41	A continuous kilohertz Cu K α source produced by submillijoule femtosecond laser pulses for phase contrast imaging. <i>Applied Physics Letters</i> , 2008 , 93, 261501	3.4	17
40	Measurements of ionization states in warm dense aluminum with betatron radiation. <i>Physical Review E</i> , 2017 , 95, 053208	2.4	15
39	Generation of high energy laser-driven electron and proton sources with the 200 TW system VEGA 2 at the Centro de Laseres Pulsados. <i>High Power Laser Science and Engineering</i> , 2019 , 7,	4.3	14
38	Debris reduction for copper and diamond-like carbon thin films produced by magnetically guided pulsed laser deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2002 , 20, 744-747	2.9	14

37	Laser-accelerated proton conversion efficiency thickness scaling. <i>Physics of Plasmas</i> , 2009 , 16, 123108	2.1	13
36	Diamond-like-carbon films produced by magnetically guided pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2001 , 73, 531-534	2.6	13
35	Spectral calibration of EBT3 and HD-V2 radiochromic film response at high dose using 20 MeV proton beams. <i>Review of Scientific Instruments</i> , 2018 , 89, 043511	1.7	12
34	Detection of buried layers in silicon devices using LIBS during hole drilling with femtosecond laser pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 111, 791-798	2.6	12
33	Generation of 500 MeV–1 GeV energy electrons from laser wakefield acceleration via ionization induced injection using CO ₂ mixed in He. <i>Applied Physics Letters</i> , 2013 , 102, 134102	3.4	12
32	Experiment and Numerical Modeling of High-Power Passively Q-Switched Ytterbium-Doped Double-Clad Fiber Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2010 , 46, 68-75	2	12
31	Single-shot divergence measurements of a laser-generated relativistic electron beam. <i>Physics of Plasmas</i> , 2010 , 17, 113106	2.1	11
30	Off-axis spiral phase mirrors for generating high-intensity optical vortices. <i>Optics Letters</i> , 2020 , 45, 2187-2190	3.190	11
29	Quantum dot saturable absorber for passive mode locking of Nd:YVO ₄ lasers at 1064 nm. <i>Applied Physics B: Lasers and Optics</i> , 2007 , 87, 671-675	1.9	10
28	Collimated Propagation of Fast Electron Beams Accelerated by High-Contrast Laser Pulses in Highly Resistive Shocked Carbon. <i>Physical Review Letters</i> , 2017 , 118, 205001	7.4	9
27	Distinctive features of photoionized plasma from short x-ray-pulse interaction with gaseous medium. <i>Physics of Plasmas</i> , 2006 , 13, 013101	2.1	9
26	Images of femtosecond laser plasma plume expansion into background air. <i>IEEE Transactions on Plasma Science</i> , 2005 , 33, 482-483	1.3	9
25	Femtosecond laser plasma plume characteristics in the nanojoule ablation regime. <i>Journal of Applied Physics</i> , 2013 , 113, 183101	2.5	7
24	Kirkpatrick-Baez microscope for hard X-ray imaging of fast ignition experiments. <i>Review of Scientific Instruments</i> , 2013 , 84, 023704	1.7	7
23	Electron radiography using hot electron jets from sub-millijoule femtosecond laser pulses. <i>Applied Physics B: Lasers and Optics</i> , 2006 , 83, 521-525	1.9	7
22	Postfabrication Phase Error Correction of Silicon Photonic Circuits by Single Femtosecond Laser Pulses. <i>Journal of Lightwave Technology</i> , 2017 , 35, 588-595	4	6
21	Characterization of laser wakefield generated betatron X-ray radiation using grazing incidence mirror reflection. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	4
20	Laser micromachining for microfluidic, microelectronic and MEMS applications		4

19	Permanent Phase Correction in a Polarization Diversity Si PIC by Femtosecond Laser Pulses. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 1880-1883	2.2	3
18	Two photon absorption coefficients and processing parameters for photoresists. <i>Microsystem Technologies</i> , 2007 , 14, 59-67	1.7	3
17	Laser-triggered quasi-monoenergetic ion beams at a moderate intensity and pulse duration. <i>Laser Physics</i> , 2008 , 18, 1025-1030	1.2	3
16	Spatial and Temporal Evolution of Laser-Generated Microplasmas. <i>IEEE Transactions on Plasma Science</i> , 2006 , 34, 2594-2599	1.3	3
15	High-efficiency optical compression of Ti:sapphire laser pulses at 800 nm using a silver-coated hollow fiber. <i>Applied Physics B: Lasers and Optics</i> , 2003 , 76, 345-350	1.9	3
14	Optimal Laguerre-Gaussian modes for high-intensity optical vortices. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020 , 37, 841-848	1.8	3
13	Electron Kinetics Induced by Ultrafast Photoexcitation of Warm Dense Matter in a 30-nm-Thick Foil. <i>Physical Review Letters</i> , 2021 , 127, 097403	7.4	3
12	Single-shot ablation threshold of chromium using UV femtosecond laser pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 117, 1473-1478	2.6	2
11	Energetic electrons produced in the interaction of a kiloHertz femtosecond laser with tantalum targets. <i>Journal of Modern Optics</i> , 2007 , 54, 2585-2593	1.1	2
10	Ablative generation of surface acoustic waves in aluminum using ultraviolet laser pulses. <i>Journal of Applied Physics</i> , 2002 , 92, 564-571	2.5	2
9	Development of an adjustable Kirkpatrick-Baez microscope for laser driven x-ray sources. <i>Review of Scientific Instruments</i> , 2019 , 90, 063704	1.7	1
8	Characterisation and Modelling of a Passively Q-Switched Yb:CaF ₂ Laser. <i>IEEE Journal of Quantum Electronics</i> , 2017 , 1-1	2	1
7	Ultraviolet laser pulse amplification in Ce:LLF		1
6	UV laser excited surface acoustic waves - quantitative measurements and comparison with theory 2001 ,		1
5	The Experimental Albertan Satellite #1 (Ex-Alta 1) Cube-Satellite Mission. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	1
4	Design and Development of a High-Power Pulse Transmitter for Underground Environmental Perception. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022 , 1-1	4.1	0
3	Guest Editorial Special Issue on Invited and Tutorial Papers From ICOPS 2016. <i>IEEE Transactions on Plasma Science</i> , 2017 , 45, 525-526	1.3	
2	Characterization of Glancing Angle Deposition Thin Film Optical Filters with Engineered Index Profiles. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 928, 1		

- 1 Influence of rapid thermal annealing on self-assembled quantum-dot superluminescent diodes.
Materials Research Society Symposia Proceedings, **2005**, 866, 132