

Robert Fedosejevs

List of Publications by Year in Descending Order

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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 | 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 |
| 53 | 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 |
| 52 | 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 |
| 51 | Off-axis spiral phase mirrors for generating high-intensity optical vortices. <i>Optics Letters</i> , 2020 , 45, 2187-2190 | 3.190 | 11 |
| 50 | The Experimental Albertan Satellite #1 (Ex-Alta 1) Cube-Satellite Mission. <i>Space Science Reviews</i> , 2020 , 216, 1 | 7.5 | 1 |
| 49 | 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 |
| 48 | 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 |
| 47 | 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 |
| 46 | Collisionless shock acceleration of narrow energy spread ion beams from mixed species plasmas using 1 μ m lasers. <i>Physical Review Accelerators and Beams</i> , 2018 , 21, | 1.8 | 22 |
| 45 | Observation of long-range dipole-dipole interactions in hyperbolic metamaterials. <i>Science Advances</i> , 2018 , 4, eaar5278 | 14.3 | 34 |
| 44 | 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 |
| 43 | Reduced Ensemble Plasmon Line Widths and Enhanced Two-Photon Luminescence in Anodically Formed High Surface Area Au-TiO 3D Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 740-749 | 9.5 | 17 |
| 42 | Measurements of ionization states in warm dense aluminum with betatron radiation. <i>Physical Review E</i> , 2017 , 95, 053208 | 2.4 | 15 |
| 41 | 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 |
| 40 | 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 | |
| 39 | Characterisation and Modelling of a Passively Q-Switched Yb:CaF ₂ Laser. <i>IEEE Journal of Quantum Electronics</i> , 2017 , 1-1 | 2 | 1 |
| 38 | Mode conversion efficiency to Laguerre-Gaussian OAM modes using spiral phase optics. <i>Optics Express</i> , 2017 , 25, 17382-17392 | 3.3 | 23 |

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|----|---|-----|----|
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |
| 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 | Femtosecond laser plasma plume characteristics in the nanojoule ablation regime. <i>Journal of Applied Physics</i> , 2013 , 113, 183101 | 2.5 | 7 |
| 32 | 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 |
| 31 | Kirkpatrick-Baez microscope for hard X-ray imaging of fast ignition experiments. <i>Review of Scientific Instruments</i> , 2013 , 84, 023704 | 1.7 | 7 |
| 30 | 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 |
| 29 | Quasimonoenergetic electron beams from laser wakefield acceleration in pure nitrogen. <i>Applied Physics Letters</i> , 2012 , 100, 074101 | 3.4 | 34 |
| 28 | Single-shot divergence measurements of a laser-generated relativistic electron beam. <i>Physics of Plasmas</i> , 2010 , 17, 113106 | 2.1 | 11 |
| 27 | 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 |
| 26 | Laser-accelerated proton conversion efficiency thickness scaling. <i>Physics of Plasmas</i> , 2009 , 16, 123108 | 2.1 | 13 |
| 25 | 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 |
| 24 | 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 |
| 23 | Development of laser-induced breakdown spectroscopy for microanalysis applications. <i>Laser and Particle Beams</i> , 2008 , 26, 95-104 | 0.9 | 27 |
| 22 | A continuous kilohertz Cu K β source produced by submillijoule femtosecond laser pulses for phase contrast imaging. <i>Applied Physics Letters</i> , 2008 , 93, 261501 | 3.4 | 17 |
| 21 | Laser-triggered quasi-monoenergetic ion beams at a moderate intensity and pulse duration. <i>Laser Physics</i> , 2008 , 18, 1025-1030 | 1.2 | 3 |
| 20 | 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 |

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|----|---|-----|----|
| 19 | Quantum dot saturable absorber for passive mode locking of Nd:YVO4 lasers at 1064 nm. <i>Applied Physics B: Lasers and Optics</i> , 2007 , 87, 671-675 | 1.9 | 10 |
| 18 | Two photon absorption coefficients and processing parameters for photoresists. <i>Microsystem Technologies</i> , 2007 , 14, 59-67 | 1.7 | 3 |
| 17 | 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 |
| 16 | Characterization of Glancing Angle Deposition Thin Film Optical Filters with Engineered Index Profiles. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 928, 1 | | |
| 15 | Spatial and Temporal Evolution of Laser-Generated Microplasmas. <i>IEEE Transactions on Plasma Science</i> , 2006 , 34, 2594-2599 | 1.3 | 3 |
| 14 | 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 |
| 13 | 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 |
| 12 | Images of femtosecond laser plasma plume expansion into background air. <i>IEEE Transactions on Plasma Science</i> , 2005 , 33, 482-483 | 1.3 | 9 |
| 11 | 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 |
| 10 | Optical properties of porous nanostructured Y2O3:Eu thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2005 , 23, 856-861 | 2.9 | 23 |
| 9 | Influence of rapid thermal annealing on self-assembled quantum-dot superluminescent diodes. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 866, 132 | | |
| 8 | 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 |
| 7 | 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 |
| 6 | 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 |
| 5 | 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 |
| 4 | 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 |
| 3 | UV laser excited surface acoustic waves - quantitative measurements and comparison with theory 2001 , | | 1 |
| 2 | Laser micromachining for microfluidic, microelectronic and MEMS applications | | 4 |

1 Ultraviolet laser pulse amplification in Ce:LLF

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