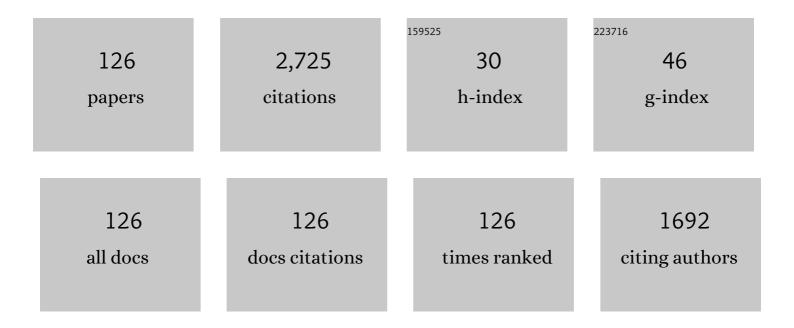
List of Publications by Year in descending order

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P FEDOSEIEVS

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Nonlinear Thomson Scattering: a Tool for Assessing Relativistic Intensities and Beyond. , 2020, , . | | 0 |
| 2 | Characterization of Nonlinear, Relativistic Thomson Scattering. , 2020, , . | | 0 |
| 3 | Precision measurement of the quantum vacuum with petawatt-class lasers. , 2020, , . | | 0 |
| 4 | Generation of high energy laser-driven electron and proton sources with the 200 TW system VEGA 2 at the Centro de Laseres Pulsados. High Power Laser Science and Engineering, 2019, 7, . | 2.0 | 31 |
| 5 | Towards an in situ, full-power gauge of the focal-volume intensity of petawatt-class lasers. Optics Express, 2019, 27, 30020. | 1.7 | 24 |
| 6 | Measurements of ionization states in warm dense aluminum with betatron radiation. Physical Review E, 2017, 95, 053208. | 0.8 | 24 |
| 7 | Collimated Propagation of Fast Electron Beams Accelerated by High-Contrast Laser Pulses in Highly Resistive Shocked Carbon. Physical Review Letters, 2017, 118, 205001. | 2.9 | 11 |
| 8 | High resolution scanning microanalysis on material surfaces using UV femtosecond laser induced breakdown spectroscopy. Optics and Lasers in Engineering, 2015, 68, 1-6. | 2.0 | 18 |
| 9 | On specular reflectivity measurements in high and low-contrast relativistic laser-plasma interactions. Physics of Plasmas, 2015, 22, 013110. | 0.7 | 5 |
| 10 | Enhanced Relativistic-Electron-Beam Energy Loss in Warm Dense Aluminum. Physical Review Letters, 2015, 114, 095004. | 2.9 | 23 |
| 11 | Single-shot ablation threshold of chromium using UV femtosecond laser pulses. Applied Physics A: Materials Science and Processing, 2014, 117, 1473-1478. | 1.1 | 3 |
| 12 | Giga-electronvolt electrons due to a transition from laser wakefield acceleration to plasma wakefield acceleration. Physics of Plasmas, 2014, 21, 123113. | 0.7 | 34 |
| 13 | Single shot depth sensitivity using femtosecond Laser Induced Breakdown Spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 92, 34-41. | 1.5 | 24 |
| 14 | Detection of buried layers in silicon devices using LIBS during hole drilling with femtosecond laser pulses. Applied Physics A: Materials Science and Processing, 2013, 111, 791-798. | 1.1 | 15 |
| 15 | Femtosecond laser plasma plume characteristics in the nanojoule ablation regime. Journal of Applied Physics, 2013, 113, . | 1.1 | 8 |
| 16 | Generation of 500 MeV–1 GeV energy electrons from laser wakefield acceleration via ionization induced injection using CO2 mixed in He. Applied Physics Letters, 2013, 102, . | 1.5 | 13 |
| 17 | Kirkpatrick-Baez microscope for hard X-ray imaging of fast ignition experiments. Review of Scientific Instruments, 2013, 84, 023704. | 0.6 | 9 |
| 18 | Laser wakefield generated X-ray probe for femtosecond time-resolved measurements of ionization states of warm dense aluminum. Review of Scientific Instruments, 2013, 84, 123106. | 0.6 | 24 |

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| 19 | Quasimonoenergetic electron beams from laser wakefield acceleration in pure nitrogen. Applied Physics Letters, 2012, 100, . | 1.5 | 39 |
| 20 | Comparative analysis of laser-triggered proton generation from overdense and low-density targets. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 653, 62-65. | 0.7 | 8 |
| 21 | A dual channel X-ray spectrometer for fast ignition research. Journal of Instrumentation, 2010, 5, P07008-P07008. | 0.5 | 16 |
| 22 | Experimental and theoretical study of absorption of femtosecond laser pulses in interaction with solid copper targets. Physical Review B, 2009, 79, . | 1.1 | 61 |
| 23 | Absolute characterization of laser-induced breakdown spectroscopy detection systems. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 525-535. | 1.5 | 16 |
| 24 | Particle characterization for the evaluation of the ^{181<i>m</i>} Ta excitation yield in millijoule laser induced plasmas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 145701. | 0.6 | 11 |
| 25 | Quasi-monoenergetic electron beams generated from 7 TW laser pulses in N2 and He gas targets. Laser and Particle Beams, 2008, 26, 147-155. | 0.4 | 46 |
| 26 | Development of laser-induced breakdown spectroscopy for microanalysis applications. Laser and Particle Beams, 2008, 26, 95-104. | 0.4 | 30 |
| 27 | A continuous kilohertz Cu Kα source produced by submillijoule femtosecond laser pulses for phase contrast imaging. Applied Physics Letters, 2008, 93, . | 1.5 | 21 |
| 28 | Wakefield Acceleration of Quasi-Monoenergetic 200 MeV Electrons in Nitrogen and Helium Gas Targets. , 2007, , . | | 0 |
| 29 | Efficient Kα x-ray source from submillijoule femtosecond laser pulses operated at kilohertz repetition rate. Review of Scientific Instruments, 2007, 78, 103502. | 0.6 | 27 |
| 30 | Energetic electrons produced in the interaction of a kiloHertz femtosecond laser with tantalum targets. Journal of Modern Optics, 2007, 54, 2585-2593. | 0.6 | 2 |
| 31 | Mechanism for femtosecond laser pulse patterning of self-assembled monolayers on gold-coated substrates. Journal of Physics: Conference Series, 2007, 59, 428-431. | 0.3 | 11 |
| 32 | Nanomilling surfaces using near-threshold femtosecond laser pulses. Journal of Physics: Conference Series, 2007, 59, 591-594. | 0.3 | 10 |
| 33 | Quantitative emission from femtosecond microplasmas for laser-induced breakdown spectroscopy. Journal of Physics: Conference Series, 2007, 59, 328-332. | 0.3 | 4 |
| 34 | Micro-LIBS. , 2007, , 173-196. | | 6 |
| 35 | Quantum dot saturable absorber for passive mode locking of Nd:YVO4 lasers at 1064Ânm. Applied Physics B: Lasers and Optics, 2007, 87, 671-675. | 1.1 | 12 |
| 36 | GaAs based semiconductor quantum dot saturable absorber mirror grown by molecular beam epitaxy. . 2006. 6343. 832. | | 3 |

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| 37 | Detection and Mapping of Latent Fingerprints by Laser-Induced Breakdown Spectroscopy. Applied Spectroscopy, 2006, 60, 1322-1327. | 1.2 | 47 |
| 38 | Electron radiography using hot electron jets from sub-millijoule femtosecond laser pulses. Applied Physics B: Lasers and Optics, 2006, 83, 521-525. | 1.1 | 7 |
| 39 | Absolute energy distribution of hard x rays produced in the interaction of a kilohertz femtosecond laser with tantalum targets. Review of Scientific Instruments, 2006, 77, 093302. | 0.6 | 7 |
| 40 | Distinctive features of photoionized plasma from short x-ray-pulse interaction with gaseous medium. Physics of Plasmas, 2006, 13, 013101. | 0.7 | 11 |
| 41 | Single and multiple shot near-infrared femtosecond laser pulse ablation thresholds of copper. Applied Physics A: Materials Science and Processing, 2005, 81, 729-735. | 1.1 | 98 |
| 42 | Images of femtosecond laser plasma plume expansion into background air. IEEE Transactions on Plasma Science, 2005, 33, 482-483. | 0.6 | 11 |
| 43 | Effect of ambient air pressure on debris redeposition during laser ablation of glass. Journal of Applied Physics, 2005, 98, 113520. | 1.1 | 31 |
| 44 | Self-Organization of a Plasma due to 3D Evolution of the Weibel Instability. Physical Review Letters, 2004, 93, 215004. | 2.9 | 97 |
| 45 | Comparative study of laser-induced plasma emission from microjoule picosecond and nanosecond KrF-laser pulses. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2003, 58, 497-510. | 1.5 | 57 |
| 46 | Ablative generation of surface acoustic waves in aluminum using ultraviolet laser pulses. Journal of Applied Physics, 2002, 92, 564-571. | 1.1 | 3 |
| 47 | Laser-Induced Breakdown Spectroscopy for Microanalysis Using Submillijoule UV Laser Pulses. Applied Spectroscopy, 2002, 56, 689-698. | 1.2 | 43 |
| 48 | Production of porous carbon thin films by pulsed laser deposition. Thin Solid Films, 1999, 350, 49-52. | 0.8 | 65 |
| 49 | Observation of Raman scattering and hard X-rays in short pulse laser interaction with high density hydrogen gas. Optics Communications, 1998, 146, 363-370. | 1.0 | 19 |
| 50 | Onset of relativistic self-focusing in high density gas jet targets. Physical Review E, 1997, 56, 4615-4639. | 0.8 | 43 |
| 51 | Guiding and confinement of a laser produced plasma by a curved magnetic field. Applied Physics Letters, 1997, 70, 1953-1955. | 1.5 | 13 |
| 52 | Particle emission debris from a KrF laser–plasma xâ€ray source. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1996, 14, 1973-1980. | 0.9 | 21 |
| 53 | Vaporization of aluminum by 50 ps KrF laser pulses. Journal of Applied Physics, 1996, 80, 509-512. | 1.1 | 6 |
| 54 | Ionization-induced blue shift of KrF laser pulses in an underdense plasma. Physical Review E, 1996, 54, 2166-2169. | 0.8 | 4 |

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| 55 | Single shot charge analyzer for laserâ€produced plasma studies. Review of Scientific Instruments, 1995, 66, 148-153. | 0.6 | 0 |
| 56 | Density measurements of a high-density pulsed gas jet for laser-plasma interaction studies. Measurement Science and Technology, 1994, 5, 1197-1201. | 1.4 | 26 |
| 57 | Dependence of keV xâ€ray generation on the temporal and spatial separation of two KrF laser pulses. Journal of Applied Physics, 1994, 76, 5047-5053. | 1.1 | 1 |
| 58 | Melting and damage of aluminum surfaces by 80 ps KrF laser pulses. Optics Communications, 1994, 111, 360-369. | 1.0 | 11 |
| 59 | Numerical simulations of charge state distribution from a KrF laserâ€produced plasma. Physics of Fluids B, 1993, 5, 4115-4122. | 1.7 | 4 |
| 60 | keV xâ€ray production using 50 mJ KrF laser produced plasmas at 1 and 100 ps. Journal of Applied Physics, 1993, 74, 3712-3723. | 1.1 | 17 |
| 61 | Experimental study of charge state distribution from KrF and ruby laserâ€produced plasmas. Physics of Fluids B, 1993, 5, 3357-3368. | 1.7 | 9 |
| 62 | KeV X-ray generation from picosecond KrF laser-produced plasmas. , 1993, , . | | 0 |
| 63 | KrF laser-plasma interaction experiments with ns and ps pulses. Laser and Particle Beams, 1992, 10, 661-675. | 0.4 | 0 |
| 64 | Experimental investigation of radiation heat waves driven by laser-induced Planck radiation. Physical Review A, 1992, 45, 3987-3996. | 1.0 | 29 |
| 65 | Efficient keV xâ€ray generation from 50 mJ KrF laser plasmas. Applied Physics Letters, 1992, 60, 1818-1820. | 1.5 | 9 |
| 66 | Xâ€ray generation from 50â€mJ, 120â€ps KrF laserâ€produced plasmas. Journal of Applied Physics, 1992, 71, 1153-1162. | 1.1 | 7 |
| 67 | Formation of plasma columns in atmospheric pressure gases by picosecond KrF laser pulses. Optics Communications, 1992, 93, 366-377. | 1.0 | 20 |
| 68 | X-ray confinement in a gold cavity heated by 351-nm laser light. Physical Review A, 1991, 44, 8323-8333. | 1.0 | 34 |
| 69 | Absorption of subpicosecond ultraviolet laser pulses in high-density plasma. Applied Physics B, Photophysics and Laser Chemistry, 1990, 50, 79-99. | 1.5 | 114 |
| 70 | Radiation confinement in x-ray-heated cavities. Physical Review A, 1990, 42, 6188-6191. | 1.0 | 26 |
| 71 | Experimental observation of laser-induced radiation heat waves. Physical Review Letters, 1990, 65, 587-590. | 2.9 | 84 |
| 72 | Stimulated scattering from laser produced plasma. Laser and Particle Beams, 1990, 8, 153-171. | 0.4 | 2 |

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| 73 | Absorption of femtosecond laser pulses in high-density plasma. Physical Review Letters, 1990, 64, 1250-1253. | 2.9 | 136 |
| 74 | KrF laser produced plasmas. Laser and Particle Beams, 1989, 7, 393-403. | 0.4 | 2 |
| 75 | Direct formation of grating structures on silicon using KrF laser radiation. Applied Optics, 1989, 28, 1877. | 2.1 | 6 |
| 76 | Measurements of gain and absorption saturation in an electron-beam-pumped KrF amplifier. IEEE Journal of Quantum Electronics, 1989, 25, 2161-2168. | 1.0 | 14 |
| 77 | Simulation of laser–plasma interactions with atomic and radiation effects. Laser and Particle Beams, 1988, 6, 183-197. | 0.4 | 2 |
| 78 | Characterization Of X-Ray Production From Krypton Fluoride Laser-Produced Plasma. , 1988, , . | | 1 |
| 79 | High Power KrF Laser System Employing SBS Pulse Compression. Springer Proceedings in Physics, 1988, , 216-224. | 0.1 | 1 |
| 80 | Wavelength dependence of gain from 248.2 to 248.4 nm in a KrF discharge laser. Journal Physics D: Applied Physics, 1987, 20, 912-916. | 1.3 | 6 |
| 81 | Foil calorimeter measurements of soft-X-ray energy emission from KrF-laser-produced plasmas. Journal Physics D: Applied Physics, 1987, 20, 1259-1263. | 1.3 | 4 |
| 82 | Ablation parameters in KrF laser/plasma interaction: An experimental study. Physics of Fluids, 1987, 30, 179. | 1.4 | 15 |
| 83 | Measurement of KrF-laser–plasma x-ray radiation from targets with various atomic numbers. Physical Review A, 1987, 35, 3874-3882. | 1.0 | 35 |
| 84 | Direct production of gratings on plastic substrates using 248-nm KrF laser radiation. Applied Optics, 1987, 26, 396. | 2.1 | 55 |
| 85 | Energy transport in gold coated plastic targets irradiated by a KrF laser. Optics Communications, 1987, 63, 165-170. | 1.0 | 3 |
| 86 | Fiducial monitor for an xâ€ray streak camera. Review of Scientific Instruments, 1986, 57, 1049-1051. | 0.6 | 3 |
| 87 | Experimental study of KrF-laser–high-Z-plasma interaction dominated by radiation transport. Physical Review A, 1986, 34, 4103-4109. | 1.0 | 12 |
| 88 | Ion expansion characteristics from a KrF-laser-produced plasma. Physical Review A, 1986, 33, 3531-3534. | 1.0 | 12 |
| 89 | Temperature and xâ€ray intensity scaling in KrF laser plasma interaction. Applied Physics Letters, 1986, 48, 103-105. | 1.5 | 22 |
| 90 | Preparation of planar multilayered targets for laser ablation studies. Review of Scientific Instruments, 1986, 57, 2625-2627. | 0.6 | 4 |

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| 91 | Experimental results for high intensity KrF laser/plasma interaction. Laser and Particle Beams, 1986, 4, 329-348. | 0.4 | 10 |
| 92 | Laser-Driven Shock Waves in Plexiglass. , 1986, , 535-539. | | 0 |
| 93 | Laser-driven shock-wave studies using optical shadowgraphy. Physical Review A, 1985, 32, 3535-3546. | 1.0 | 17 |
| 94 | Stimulated Brillouin scattering of KrF laser radiation in dichlorodifluoromethane. IEEE Journal of Quantum Electronics, 1985, 21, 9-11. | 1.0 | 15 |
| 95 | Subnanosecond pulses from a KrF laser pumped SF <inf>6</inf> Brillouin amplifier. IEEE Journal of Quantum Electronics, 1985, 21, 1558-1562. | 1.0 | 60 |
| 96 | Interaction of 1.3-μm laser radiation with thin foil targets. Physical Review A, 1984, 30, 2568-2589. | 1.0 | 54 |
| 97 | Experimental study of an SF6Brillouin amplifier pumped by KrF laser radiation. Applied Physics Letters, 1984, 45, 340-342. | 1.5 | 15 |
| 98 | High-efficiency stimulated Brillouin scattering of KrF laser radiation in SF_6. Optics Letters, 1984, 9, 405. | 1.7 | 24 |
| 99 | Phase conjugation and pulse compression of KrF-laser radiation by stimulated Raman scattering. Optics Letters, 1983, 8, 9. | 1.7 | 42 |
| 100 | Electrically triggered multimodule KrF laser system with narrowâ€linewidth output. Review of Scientific Instruments, 1983, 54, 845-852. | 0.6 | 23 |
| 101 | Stimulated Raman backscattering in the presence of ion-acoustic fluctuations. Physics of Fluids, 1983, 26, 1071. | 1.4 | 33 |
| 102 | Narrowâ€linewidth gain and saturation measurements of a KrF discharge laser. Journal of Applied Physics, 1983, 54, 5629-5632. | 1.1 | 6 |
| 103 | Stimulated Raman Backscatter from a Magnetically Confined Plasma Column. Physical Review Letters, 1982, 49, 371-375. | 2.9 | 43 |
| 104 | Simultaneous Brillouin and Raman Scattering in CO2Laser–Plasma Interaction. Physica Scripta, 1982, T2B, 498-505. | 1.2 | 3 |
| 105 | The evolution of two-dimensional effects in fast-electron transport from high-intensity laser-plasma interactions. Journal Physics D: Applied Physics, 1982, 15, 2463-2468. | 1.3 | 33 |
| 106 | Up-conversion of subpicosecond light pulses. IEEE Journal of Quantum Electronics, 1982, 18, 2048-2056. | 1.0 | 40 |
| 107 | Dynamics of CO ₂ laser heated solenoids. Canadian Journal of Physics, 1982, 60, 1247-1256. | 0.4 | 2 |
| 108 | Active-passive mode locking of a flashlamp-pumped dye laser. IEEE Journal of Quantum Electronics, 1981, 17, 496-500. | 1.0 | 2 |

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| 109 | Internal breakdown in a dielectric target at high laser irradiance. Journal of Applied Physics, 1981, 52, 4186-4188. | 1.1 | 7 |
| 110 | Stimulated backscatter from long plasma columns. Optics Communications, 1981, 40, 35-40. | 1.0 | 8 |
| 111 | Energy Partition in CO2-Laser-Irradiated Microballoons. Physical Review Letters, 1981, 47, 515-518. | 2.9 | 16 |
| 112 | The electron density structure of the plasma produced on glass microballoons by 10.6 μm radiation. Physics of Fluids, 1981, 24, 537. | 1.4 | 24 |
| 113 | Picosecond Interferomatric Studies of CO2 Laser Produced Plasmas. Springer Series in Chemical Physics, 1980, , 64-68. | 0.2 | 1 |
| 114 | Supercritical Density Profiles of CO2-Laser-Irradiated Microballoons. Physical Review Letters, 1979, 43, 1664-1667. | 2.9 | 51 |
| 115 | Observations consistent with selfâ€generated magnetic fields in CO2laserâ€produced plasmas. Applied Physics Letters, 1979, 35, 106-108. | 1.5 | 12 |
| 116 | Actively modeâ€locked and Qâ€controlled Nd:glass laser. Review of Scientific Instruments, 1979, 50, 9-16. | 0.6 | 22 |
| 117 | Picosecond Diagnosis of CO2 Laser Produced Plasmas. Springer Series in Chemical Physics, 1978, , 274-280. | 0.2 | 1 |
| 118 | Generation of single synchronizable picosecond 1.06â€î¼m pulses. Applied Physics Letters, 1977, 30, 164-166. | 1.5 | 30 |
| 119 | Self-Steepening of the Density Profile of a CO2-Laser-Produced Plasma. Physical Review Letters, 1977, 39, 932-935. | 2.9 | 102 |
| 120 | Picosecond XeF amplified laser pulses. Applied Physics Letters, 1977, 30, 146-148. | 1.5 | 35 |
| 121 | Picosecond gain and saturation measurements of the 353â€nm XeF laser line. Applied Physics Letters, 1977, 31, 747-749. | 1.5 | 19 |
| 122 | Unidirectional travelling wave operation of a mode-locking Nd:Glass ring laser. Optics Communications, 1977, 21, 327-331. | 1.0 | 14 |
| 123 | CO2 Laser-Plasma Interaction Studies At NRC-Canada. , 1977, , 161-180. | | 4 |
| 124 | Synchronizable actively modeâ€locked Nd:glass laser. Applied Physics Letters, 1976, 29, 193-195. | 1.5 | 19 |
| 125 | Subnanosecond microscopic holographic interferometry of plasmas produced by 1â€nsec CO2laser pulses. Applied Physics Letters, 1975, 27, 115-117. | 1.5 | 5 |
| 126 | Gain characteristics of a multiatmosphere UV-preionized CO <inf>2</inf> laser. IEEE Journal of Quantum Electronics, 1975, 11, 767-773. | 1.0 | 35 |