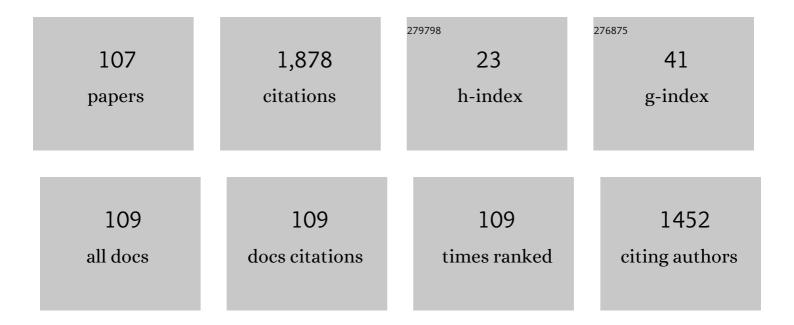
List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Calibration of imaging plate for high energy electron spectrometer. Review of Scientific Instruments, 2005, 76, 013507. | 1.3 | 240 |
| 2 | Plasma devices to guide and collimate a high density of MeV electrons. Nature, 2004, 432, 1005-1008. | 27.8 | 170 |
| 3 | Measurements of Energy Transport Patterns in Solid Density Laser Plasma Interactions at Intensities of5×1020  W cmâ^'2. Physical Review Letters, 2007, 98, 125002. | 7.8 | 117 |
| 4 | Laser generated proton beam focusing and high temperature isochoric heating of solid matter. Physics of Plasmas, 2007, 14, . | 1.9 | 67 |
| 5 | Basic and integrated studies for fast ignition. Physics of Plasmas, 2003, 10, 1925-1930. | 1.9 | 58 |
| 6 | Numerical modeling of fast electron generation in the presence of preformed plasma in laser-matter interaction at relativistic intensities. Physical Review E, 2011, 83, 046401. | 2.1 | 57 |
| 7 | Surface Acceleration of Fast Electrons with Relativistic Self-Focusing in Preformed Plasma. Physical Review Letters, 2006, 97, 095004. | 7.8 | 52 |
| 8 | Demonstration of bulk acceleration of ions in ultraintense laser interactions with low-density foams. Physical Review E, 2005, 72, 066404. | 2.1 | 50 |
| 9 | Optimum Hot Electron Production with Low-Density Foams for Laser Fusion by Fast Ignition. Physical Review Letters, 2006, 96, 255006. | 7.8 | 50 |
| 10 | Visualizing fast electron energy transport into laser-compressed high-density fast-ignitionÂtargets. Nature Physics, 2016, 12, 499-504. | 16.7 | 49 |
| 11 | High-energy electrons produced in subpicosecond laser-plasma interactions from subrelativistic laser intensities to relativistic intensities. Physical Review E, 2004, 69, 036405. | 2.1 | 48 |
| 12 | Enhancement of energetic electrons and protons by cone guiding of laser light. Physical Review E, 2005, 71, 036403. | 2.1 | 45 |
| 13 | Study of Hot Electrons by Measurement of Optical Emission from the Rear Surface of a Metallic Foil Irradiated with Ultraintense Laser Pulse. Physical Review Letters, 2004, 92, 165001. | 7.8 | 41 |
| 14 | Dynamic fracture of tantalum under extreme tensile stress. Science Advances, 2017, 3, e1602705. | 10.3 | 41 |
| 15 | Measurements of fast electron scaling generated by petawatt laser systems. Physics of Plasmas, 2009, 16, . | 1.9 | 40 |
| 16 | On the behavior of ultraintense laser produced hot electrons in self-excited fields. Physics of Plasmas, 2007, 14, 040706. | 1.9 | 39 |
| 17 | Transport study of intense-laser-produced fast electrons in solid targets with a preplasma created by a long pulse laser. Physics of Plasmas, 2010, 17, . | 1.9 | 37 |
| 18 | Interpenetration and stagnation in colliding laser plasmas. Physics of Plasmas, 2014, 21, 013502. | 1.9 | 33 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Relativistic laser channeling in plasmas for fast ignition. Physical Review E, 2007, 76, 066403. | 2.1 | 31 |
| 20 | Focus optimization of relativistic self-focusing for anomalous laser penetration into overdense plasmas (super-penetration). Plasma Physics and Controlled Fusion, 2008, 50, 105011. | 2.1 | 31 |
| 21 | Recent fast electron energy transport experiments relevant to fast ignition inertial fusion. Nuclear Fusion, 2009, 49, 104023. | 3.5 | 27 |
| 22 | Study of ultraintense laser propagation in overdense plasmas for fast ignition. Physics of Plasmas, 2009, 16, 056307. | 1.9 | 25 |
| 23 | Collimation of Energetic Electrons from a Laser-Target Interaction by a Magnetized Target Back Plasma Preformed by a Long-Pulse Laser. Physical Review Letters, 2014, 112, . | 7.8 | 25 |
| 24 | Absolute calibration of imaging plate for GeV electrons. Review of Scientific Instruments, 2008, 79, 066102. | 1.3 | 23 |
| 25 | Evidence of anomalous resistivity for hot electron propagation through a dense fusion core in fast ignition experiments. New Journal of Physics, 2009, 11, 093031. | 2.9 | 20 |
| 26 | Ultrafast observation of lattice dynamics in laser-irradiated gold foils. Applied Physics Letters, 2017, 110, . | 3.3 | 20 |
| 27 | Characterization of preplasma produced by an ultrahigh intensity laser system. Physics of Plasmas, 2004, 11, 3721-3725. | 1.9 | 19 |
| 28 | Superthermal and Efficient-Heating Modes in the Interaction of a Cone Target with Ultraintense Laser Light. Physical Review Letters, 2009, 102, 045009. | 7.8 | 19 |
| 29 | Progress and perspectives of fast ignition. Plasma Physics and Controlled Fusion, 2004, 46, B41-B49. | 2.1 | 18 |
| 30 | Micron-scale phenomena observed in a turbulent laser-produced plasma. Nature Communications, 2021, 12, 2679. | 12.8 | 17 |
| 31 | An experimental platform using high-power, high-intensity optical lasers with the hard X-ray free-electron laser at SACLA. Journal of Synchrotron Radiation, 2019, 26, 585-594. | 2.4 | 17 |
| 32 | A dual channel X-ray spectrometer for fast ignition research. Journal of Instrumentation, 2010, 5, P07008-P07008. | 1.2 | 16 |
| 33 | Advanced high resolution x-ray diagnostic for HEDP experiments. Scientific Reports, 2018, 8, 16407. | 3.3 | 16 |
| 34 | Monochromatic 2D <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:mi>K</mml:mi><mml:mi>α</mml:mi></mml:mrow></mml:math> Emission Images Revealing Short-Pulse Laser Isochoric Heating Mechanism. Physical Review Letters, 2019, 122, 155002. | 7.8 | 16 |
| 35 | Development of an Experimental Platform for Combinative Use of an XFEL and a High-Power Nanosecond Laser. Applied Sciences (Switzerland), 2020, 10, 2224. | 2.5 | 16 |
| 36 | Reentrant cone angle dependence of the energetic electron slope temperature in high-intensity laser-plasma interactions. Physics of Plasmas, 2007, 14, 050701. | 1.9 | 15 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Transient Electrostatic Fields and Related Energetic Proton Generation with a Plasma Fiber. Physical Review Letters, 2006, 96, 084802. | 7.8 | 14 |
| 38 | Fast Heating of Cylindrically Imploded Plasmas by Petawatt Laser Light. Physical Review Letters, 2008, 100, 165001. | 7.8 | 14 |
| 39 | Ultrafast anisotropic disordering in graphite driven by intense hard X-ray pulses. High Energy Density Physics, 2019, 32, 63-69. | 1.5 | 13 |
| 40 | Bulk acceleration of ions in intense laser interaction with foams. Plasma Physics and Controlled Fusion, 2005, 47, B879-B889. | 2.1 | 11 |
| 41 | Development of multi-channel electron spectrometer. Review of Scientific Instruments, 2010, 81, 10E535. | 1.3 | 11 |
| 42 | Single-shot divergence measurements of a laser-generated relativistic electron beam. Physics of Plasmas, 2010, 17, . | 1.9 | 11 |
| 43 | Correlation between laser accelerated MeV proton and electron beams using simple fluid model for target normal sheath acceleration. Physics of Plasmas, 2010, 17, 073110. | 1.9 | 11 |
| 44 | Coherent X-ray beam metrology using 2D high-resolution Fresnel-diffraction analysis. Journal of Synchrotron Radiation, 2017, 24, 196-204. | 2.4 | 10 |
| 45 | Using Diffuse Scattering to Observe X-Ray-Driven Nonthermal Melting. Physical Review Letters, 2021, 126, 015703. | 7.8 | 10 |
| 46 | Ultrafast olivine-ringwoodite transformation during shock compression. Nature Communications, 2021, 12, 4305. | 12.8 | 9 |
| 47 | Diagnosing laser-driven, shock-heated foam target with Al absorption spectroscopy on OMEGA EP. High Energy Density Physics, 2012, 8, 180-183. | 1.5 | 8 |
| 48 | Formation of carbon allotrope aerosol by colliding plasmas in an inertial fusion reactor. Nuclear Fusion, 2014, 54, 022003. | 3.5 | 8 |
| 49 | Development of new diagnostics based on LiF detector for pump-probe experiments. Matter and Radiation at Extremes, 2018, 3, 197-206. | 3.9 | 8 |
| 50 | Evidence of shock-compressed stishovite above 300 GPa. Scientific Reports, 2020, 10, 10197. | 3.3 | 8 |
| 51 | Study of electron and proton isochoric heating for fast ignition. European Physical Journal Special Topics, 2006, 133, 371-378. | 0.2 | 8 |
| 52 | Impact of extended preplasma on energy coupling in kilojoule energy relativistic laser interaction with cone wire targets relevant to fast ignition. New Journal of Physics, 2013, 15, 015020. | 2.9 | 7 |
| 53 | Femtosecond Optical Laser System with Spatiotemporal Stabilization for Pump-Probe Experiments at SACLA. Applied Sciences (Switzerland), 2020, 10, 7934. | 2.5 | 7 |
| 54 | Laser scattered images observed from carbon plasma stagnation and following molecular formation. Applied Physics Letters, 2014, 104, . | 3.3 | 6 |

| # | Article | IF | CITATIONS |
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| 55 | Transport and spatial energy deposition of relativistic electrons in copper-doped fast ignition plasmas. Physics of Plasmas, 2017, 24, 102710. | 1.9 | 6 |
| 56 | Liquid Structure of Tantalum under Internal Negative Pressure. Physical Review Letters, 2021, 126, 175503. | 7.8 | 6 |
| 57 | Hot electron spatial distribution under presence of laser light self-focusing in over-dense plasmas. Journal of Physics: Conference Series, 2008, 112, 022095. | 0.4 | 5 |
| 58 | Investigation of fast-electron-induced <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>K</mml:mi>α x rays in laser-produced blow-off plasma. Physical Review E, 2014, 89, 033105.</mml:math | 2.1 | 5 |
| 59 | <i>Indirect</i> monitoring shot-to-shot shock waves strength reproducibility during pump–probe experiments. Journal of Applied Physics, 2016, 120, . | 2.5 | 5 |
| 60 | Material Dependence on Plasma Shielding Induced by Laser Ablation. Plasma and Fusion Research, 2012, 7, 2405065-2405065. | 0.7 | 5 |
| 61 | Phase transition and melting in zircon by nanosecond shock loading. Physics and Chemistry of Minerals, 2022, 49, . | 0.8 | 5 |
| 62 | Nanoscale subsurface dynamics of solids upon high-intensity femtosecond laser irradiation observed by grazing-incidence x-ray scattering. Physical Review Research, 2022, 4, . | 3.6 | 5 |
| 63 | Use of imaging plates at near saturation for high energy density particles. Review of Scientific Instruments, 2008, 79, 10E910. | 1.3 | 4 |
| 64 | Effect of reentrant cone geometry on energy transport in intense laser-plasma interactions. Physical Review E, 2009, 80, 045401. | 2.1 | 4 |
| 65 | Observation of ultra-high energy density state with x-ray free electron laser SACLA. High Energy Density Physics, 2020, 36, 100813 Hugoniot equation-of-state and structure of laser-shocked polyimide <mml:math< td=""><td>1.5</td><td>4</td></mml:math<> | 1.5 | 4 |
| 66 | xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mrow><mml:msub><mml:mi mathvariant="normal">C<mml:mn>22</mml:mn></mml:mi </mml:msub><mml:msub><mml:mi mathvariant="normal">H<mml:mn>10</mml:mn></mml:mi </mml:msub><mml:msub><mml:mi mathvariant="normal">N<mml:mn>2</mml:mn></mml:mi </mml:msub><mml:msub><mml:mi< td=""><td>3.2</td><td>4</td></mml:mi<></mml:msub></mml:mrow> | 3.2 | 4 |
| 67 | mathvariant="normal">O <mml:mn>5</mml:mn> . ^{Dhysi} Hot electron generation and transport using Kα emission. Journal of Physics: Conference Series, 2010, 244, 022026. | 0.4 | 3 |
| 68 | Numerical modeling of fast electron transport in short pulse laser–solid interactions with long scale-length pre-formed plasma. Plasma Physics and Controlled Fusion, 2010, 52, 125003. | 2.1 | 3 |
| 69 | Proton Radiography of Intense-Laser-Irradiated Wire-Attached Cone Targets. IEEE Transactions on Plasma Science, 2011, 39, 2822-2823. | 1.3 | 3 |
| 70 | Monochromatic Imaging of 8.0-keV Cu \$hbox{K}alpha\$ Emission Induced by Energetic Electrons Generated at OMEGA EP. IEEE Transactions on Plasma Science, 2011, 39, 2816-2817. | 1.3 | 3 |
| 71 | Emission of energetic protons from relativistic intensity laser interaction with a cone-wire target. Physical Review E, 2012, 86, 056405. | 2.1 | 3 |
| 72 | Stopping and transport of fast electrons in superdense matter. Physics of Plasmas, 2013, 20, 083301. | 1.9 | 3 |

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| 73 | Slowdown mechanisms of ultraintense laser propagation in critical density plasma. Physical Review E, 2015, 92, 013106. | 2.1 | 3 |
| 74 | Overview of optics, photon diagnostics and experimental instruments at SACLA: development, operation and scientific applications. , 2017, , . | | 3 |
| 75 | Spatially resolved single-shot absorption spectroscopy with x-ray free electron laser pulse. Review of Scientific Instruments, 2021, 92, 053534. | 1.3 | 2 |
| 76 | High energy electron transport in solids. European Physical Journal Special Topics, 2006, 133, 355-360. | 0.2 | 2 |
| 77 | Zonal Proton Generation from Target Edges Using Ultra-Intense Laser Pulse. Plasma and Fusion Research, 2007, 2, 003-003. | 0.7 | 2 |
| 78 | Photoluminescence properties and characterization of LiF-based imaging detector irradiated by 10 keV XFEL beam. , 2019, , . | | 2 |
| 79 | Absolute calibration of imaging plate for electron spectrometer measuring GeV-class electrons. Journal of Physics: Conference Series, 2008, 112, 032073. | 0.4 | 1 |
| 80 | Hot electron emission limited by self-excited fields from targets irradiated by ultra-intense laser pulses. Journal of Physics: Conference Series, 2008, 112, 022093. | 0.4 | 1 |
| 81 | Measurement of fast electrons spectra generated by interaction between solid target and peta watt laser. Journal of Physics: Conference Series, 2010, 244, 022067. | 0.4 | 1 |
| 82 | Temporally resolved characterization of shock-heated foam target with Al absorption spectroscopy for fast electron transport study. Physics of Plasmas, 2012, 19, 092705. | 1.9 | 1 |
| 83 | Effect of defocusing on picosecond laser-coupling into gold cones. Physics of Plasmas, 2014, 21, 012702. | 1.9 | 1 |
| 84 | Relativistic laser channeling into high-density plasmas. European Physical Journal Special Topics, 2006, 133, 409-412. | 0.2 | 1 |
| 85 | Energy Injection for Fast Ignition. Plasma and Fusion Research, 2009, 4, 016-016. | 0.7 | 1 |
| 86 | Influence of Electrostatic and Magnetic Fields on Hot Electron Emission in Ultra-Intense Laser Matter Interactions. Plasma and Fusion Research, 2007, 2, 015-015. | 0.7 | 1 |
| 87 | X-ray diffraction study of phase transformation dynamics of Fe and Fe-Si alloys along the shock Hugoniot using an x-ray free electron laser. Physical Review B, 2022, 105, . | 3.2 | 1 |
| 88 | Studies of proton generation and focusing for fast ignition applications. , 2006, , . | | 0 |
| 89 | Effect of sheath potential on electromagnetic radiation emitted from the rear surface of a metallic foil target. Chinese Physics B, 2007, 16, 3009-3015. | 1.3 | 0 |
| 90 | High energy electron acceleration with PW-class laser system. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |

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| 91 | Fast heating of wire target attached on entrant hollow cone with ultra-intense laser up to keV order. Journal of Physics: Conference Series, 2008, 112, 022058. | 0.4 | 0 |
| 92 | Intense-laser generated fast electron transport in a large preplasma created by a long pulse laser. , 2009, , . | | 0 |
| 93 | The effect of target thickness, molecular composition and pulse length on the proton beam flux and conversion efficiency. , 2009, , . | | 0 |
| 94 | Study of hot electron production and transport as a function of preplasma filling of hollow cone targets. , 2009, , . | | 0 |
| 95 | Divergence of laser-generated hot electrons generated in a cone geometry. Journal of Physics: Conference Series, 2010, 244, 022064. | 0.4 | 0 |
| 96 | Electron energy distributions through superdense matter by Monte-Carlo simulations. EPJ Web of Conferences, 2013, 59, 17018. | 0.3 | 0 |
| 97 | Simulated ablation of carbon wall by alpha particles for a laser fusion reactor. Journal of Nuclear Materials, 2015, 459, 77-80. | 2.7 | 0 |
| 98 | In Situ Characterization of XFEL Beam Intensity Distribution and Focusability by High-Resolution LiF Crystal Detector. Springer Proceedings in Physics, 2018, , 109-115. | 0.2 | 0 |
| 99 | Reduced fast electron transport in shock-heated plasma in multilayer targets due to self-generated magnetic fields. Physical Review E, 2018, 98, . | 2.1 | 0 |
| 100 | X-ray radiography based on the phase-contrast imaging with using LiF detector. Journal of Physics: Conference Series, 2021, 1787, 012027. | 0.4 | 0 |
| 101 | High Intensity Laser Propagation though Overdense Plasmas. The Review of Laser Engineering, 2008, 36, 1139-1141. | 0.0 | 0 |
| 102 | Plasma Devices to Control Energetic Electrons Produced by Ultra-intense Lasers. The Review of Laser Engineering, 2008, 36, 1146-1149. | 0.0 | 0 |
| 103 | Characterization of Fast Electron Source Using Copper Kl \pm and Proton Emission from Cone-Wire Targets. The Review of Laser Engineering, 2013, 41, 45. | 0.0 | 0 |
| 104 | Characteristic of Relativistic Plasma Created by Ultra Intense Laser. The Review of Laser Engineering, 2013, 41, 7. | 0.0 | 0 |
| 105 | Material Dependence of Energy Spectra of Fast Electrons Generated by Use of High Contrast Laser. The Review of Laser Engineering, 2013, 41, 49. | 0.0 | 0 |
| 106 | Visualizing Overlapping Space-Time Regions ofÂTime-Series 2D Experimental Data and 3D Simulation Data: Application toÂPlasma-PlumeÂCollisions. Communications in Computer and Information Science, 2017, , 579-592. | 0.5 | 0 |
| 107 | Toward the Fusion of High-Power Laser Shock and Material Sciences. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2020, 30, 216-224. | 0.0 | 0 |