# Min Sup Hur

List of Publications by Year
in descending order



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|---|---|---|---|
| 66 papers | 902 citations | 516710 16 h-index | 501196 28 g-index |
| 66 all docs | 66 docs citations | 66 times ranked | 607 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Terahertz emission from a plasma dipole oscillation. Journal of the Korean Physical Society, 2022, 80, 852-858. | 0.7 | 2 |
| 2 | Review of laser-plasma physics research and applications in Korea. Journal of the Korean Physical Society, 2022, 80, 698-716. | 0.7 | 2 |
| 3 | Coherent terahertz radiation generation by a flattened Gaussian laser beam at a plasmaâ€“vacuum interface. Applied Physics B: Lasers and Optics, 2022, 128, 1. | 2.2 | 8 |
| 4 | Particle-in-cell simulations of THz emission from plasma by oblique collision of two-electron beams. Physics of Plasmas, 2022, 29, . | 1.9 | 3 |
| 5 | Simulation study of phase-matched THz emission from an axially modulated magnetized plasma. Physics of Plasmas, 2021, 28, . | 1.9 | 8 |
| 6 | Radiation emitter generated by interacting Langmuir waves. , 2021, , . | | 1 |
| 7 | Radiation reaction and the acceleration-dependent mass increase of a charged sphere undergoing uniform acceleration. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 407, 127445. | 2.1 | 1 |
| 8 | Effects of a shallow SAS divertor on detachment in KSTAR. Nuclear Fusion, 2021, 61, 014001. | 3.5 | 0 |
| 9 | Evolution of magnetic field in a weakly relativistic counterstreaming inhomogeneous eâˆ’/e+ plasmas. Laser and Particle Beams, 2020, 38, 181-187. | 1.0 | 1 |
| 10 | Reconstruction of plasma density profiles by measuring spectra of radiation emitted from oscillating plasma dipoles. Plasma Sources Science and Technology, 2020, 29, 025018. | 3.1 | 3 |
| 11 | Particle-in-cell simulation of plasma-based amplification using a moving window. Physical Review Research, 2020, 2, . | 3.6 | 6 |
| 12 | Unstable longitudinal expansion of plasma foils accelerated by circularly polarized laser pulses in non-transparent regimes. Physics of Plasmas, 2019, 26, 103104. | 1.9 | 0 |
| 13 | Enhanced betatron radiation by a modulating laser pulse in laser wakefield acceleration. Current Applied Physics, 2019, 19, 464-469. | 2.4 | 3 |
| 14 | A laser-plasma accelerator driven by two-color relativistic femtosecond laser pulses. Science Advances, 2019, 5, eaav7940. | 10.3 | 23 |
| 15 | Envelope-PIC Hybrid Method for the Simulation of Microwave Reflectometry. IEEE Transactions on Plasma Science, 2018, 46, 577-582. | 1.3 | 1 |
| 16 | High-Energy, Short-Duration Bursts of Coherent Terahertz Radiation from an Embedded Plasma Dipole. Scientific Reports, 2018, 8, 145. | 3.3 | 35 |
| 17 | An ultra-high gain and efficient amplifier based on Raman amplification in plasma. Scientific Reports, 2017, 7, 2399. | 3.3 | 44 |
| 18 | Analyzing the effect of slotted foil on radiation pulse profile in a mode locked afterburner X-ray free electron laser. Journal of Applied Physics, 2017, 121, 243101. | 2.5 | 2 |

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|---|---|---|---|
| 19 | Large-scale magnetic field generation by asymmetric laser-pulse interactions with a plasma in low-intensity regime. Journal of Applied Physics, 2016, 119, . | 2.5 | 10 |
| 20 | Effects of laser polarizations on shock generation and shock ion acceleration in overdense plasmas. Physical Review E, 2016, 94, 033211. | 2.1 | 2 |
| 21 | Violation of the transit-time limit toward generation of ultrashort electron bunches with controlled velocity chirp. Scientific Reports, 2016, 6, 32567. | 3.3 | 7 |
| 22 | Chirped pulse Raman amplification in warm plasma: towards controlling saturation. Scientific Reports, 2015, 5, 13333. | 3.3 | 28 |
| 23 | Raman backscattering saturation due to coupling betweenÏ‰pand 2Ï‰pmodes in plasma. New Journal of Physics, 2015, 17, 103026. | 2.9 | 3 |
| 24 | Concave pulse shaping of a circularly polarized laser pulse from non-uniform overdense plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 700-704. | 2.1 | 2 |
| 25 | Control of the charge and energy of the proton beams from a laser-driven double-layer target. Current Applied Physics, 2015, 15, 892-896. | 2.4 | 0 |
| 26 | Strong terahertz emission from electromagnetic diffusion near cutoff in plasma. New Journal of Physics, 2015, 17, 043045. | 2.9 | 37 |
| 27 | Onset of stimulated Raman scattering of a laser in a plasma in the presence of hot drifting electrons. Physics of Plasmas, 2015, 22, 052101. | 1.9 | 13 |
| 28 | Shock ion acceleration by an ultrashort circularly polarized laser pulse via relativistic transparency in an exploded target. Physical Review E, 2015, 92, 043102. | 2.1 | 19 |
| 29 | Measuring the magnetic field of a magnetized plasma using Raman scattering. Applied Physics Letters, 2014, 104, 141107. | 3.3 | 6 |
| 30 | Large transverse motion and micro-bunching of trapped electrons in a wakefield accelerator driven by temporally-asymmetric laser pulses. Current Applied Physics, 2013, 13, 645-651. | 2.4 | 2 |
| 31 | Plasma density measurements using chirped pulse broad-band Raman amplification. Applied Physics Letters, 2013, 103, . | 3.3 | 9 |
| 32 | Relativistic channeling of a linearly polarized laser pulse in overdense plasma. Laser and Particle Beams, 2012, 30, 465-471. | 1.0 | 3 |
| 33 | Feasibility study of the plasma electron density measurement by electromagnetic radiation from the laser-driven plasma wave. Journal of Instrumentation, 2012, 7, C04010-C04010. | 1.2 | 0 |
| 34 | Relativistic terahertz pulse generation by non-linear interaction of a high-power fs laser with underdense plasmas. Journal Physics D: Applied Physics, 2012, 45, 395201. | 2.8 | 4 |
| 35 | Controlling the spectrum of high-power terahertz radiation from a laser-driven plasma wave. Current Applied Physics, 2012, 12, 1252-1255. | 2.4 | 1 |
| 36 | Two-dimensional simulations of the amplification and focusing of intense laser pulses in the kinetic regime of Raman backward amplification in plasmas. Computer Physics Communications, 2009, 180, 651-655. | 7.5 | 6 |

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|---|---|---|---|
| 37 | Guiding of an electromagnetic pulse in a plasma immersed in combined wiggler and axial magnetic fields. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 3452-3455. | 2.1 | 2 |
| 38 | Enhanced electron trapping by a static longitudinal magnetic field in laser wakefield acceleration. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2684-2687. | 2.1 | 37 |
| 39 | Investigation of the Optimal Condition for High Acceleration Efficiency in the Laser Wake-Field Acceleration. Journal of the Korean Physical Society, 2008, 52, 293-299. | 0.7 | 0 |
| 40 | Pulse width effects on Raman backward laser amplification. Journal Physics D: Applied Physics, 2007, 40, 5155-5160. | 2.8 | 10 |
| 41 | Simulation for generation of 15fs laser pulses by Raman backscatter in plasmas. Applied Physics Letters, 2007, 91, 101501. | 3.3 | 6 |
| 42 | Flying mirror model for interaction of a super-intense laser pulse with a thin plasma layer: Transparency and shaping of linearly polarized laser pulses. Physics of Plasmas, 2007, 14, 113102. | 1.9 | 7 |
| 43 | Flying mirror model for interaction of a super-intense nonadiabatic laser pulse with a thin plasma layer: Dynamics of electrons in a linearly polarized external field. Physics of Plasmas, 2007, 14, 113101. | 1.9 | 37 |
| 44 | Theoretical Investigation of Controlled Generation of a Dense Attosecond Relativistic Electron Bunch from the Interaction of an Ultrashort Laser Pulse with a Nanofilm. Physical Review Letters, 2007, 99, 124801. | 7.8 | 92 |
| 45 | Realistic laser focusing effect on electron acceleration in the presence of a pulsed magnetic field. Applied Physics Letters, 2007, 91, . | 3.3 | 17 |
| 46 | New envelope-kinetic scheme for the simulation of Raman backward laser amplification. Computer Physics Communications, 2007, 177, 68-69. | 7.5 | 1 |
| 47 | Test particle method for incorporation of the kinetic effects into the envelope simulations of Raman backscattering. Journal of Computational Physics, 2007, 226, 2133-2145. | 3.8 | 4 |
| 48 | Plasma Channel Generation for Electron Acceleration with a Laser-Induced Density Gradient. Journal of the Korean Physical Society, 2007, 50, 1466. | 0.7 | 10 |
| 49 | Envelope-Kinetic Method for the Simulation of Raman Backward Laser Amplification in a Plasma. Journal of the Korean Physical Society, 2007, 50, 1463. | 0.7 | 0 |
| 50 | Attosecond Relativistic Electron Beam by Using an Ultrashort Laser Pulse and a Thin Plasma Layer. Journal of the Korean Physical Society, 2007, 50, 1471. | 0.7 | 0 |
| 51 | Energy exchange during stimulated Raman scattering of a relativistic laser in a plasma. Journal of Applied Physics, 2006, 100, 103101. | 2.5 | 20 |
| 52 | Compression and microbunching of electron beams by ultra-intense laser pulses. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 353, 505-511. | 2.1 | 3 |
| 53 | Electron Kinetic Effects on Raman Backscatter in Plasmas. Physical Review Letters, 2005, 95, 115003. | 7.8 | 47 |
| 54 | Reaching the Nonlinear Regime of Raman Amplification of Ultrashort Laser Pulses. Physical Review Letters, 2005, 94, 045003. | 7.8 | 137 |

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|---|---|---|---|
| 55 | Slowly varying envelope kinetic simulations of pulse amplification by Raman backscattering. Physics of Plasmas, 2004, 11, 5204-5211. | 1.9 | 21 |
| 56 | Simulation of electromagnetically and magnetically induced transparency in a magnetized plasma. Physics of Plasmas, 2003, 10, 3004-3011. | 1.9 | 24 |
| 57 | Three-dimensional fluid simulation of a plasma display panel cell. Journal of Applied Physics, 2002, 91, 9513. | 2.5 | 52 |
| 58 | Particle-in-cell simulation of a neutral beam source for materials processing. IEEE Transactions on Plasma Science, 2002, 30, 110-111. | 1.3 | 10 |
| 59 | The effective coefficient of secondary electron emission in plasma display panel. IEEE Transactions on Plasma Science, 2001, 29, 861-863. | 1.3 | 20 |
| 60 | Striation Mechanism and Triggered Striation in Dielectric Microdischarge Plasma. Japanese Journal of Applied Physics, 2001, 40, L528-L531. | 1.5 | 12 |
| 61 | New chaotic patterns in pulsed discharges. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 276, 286-290. | 2.1 | 1 |
| 62 | Non-axisymmetric simulation of the vertical displacement event in tokamaks. Plasma Physics and Controlled Fusion, 1999, 41, 551-565. | 2.1 | 2 |
| 63 | Ion-beam-driven instabilities in bounded dusty plasmas. IEEE Transactions on Plasma Science, 1999, 27, 1449-1453. | 1.3 | 6 |
| 64 | Effects of particle trapping and velocity slippage on beam-plasma interactions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 247, 313-318. | 2.1 | 1 |
| 65 | A universal characterization of nonlinear self-oscillation and chaos in various particle-wave-wall interactions. Applied Physics Letters, 1998, 72, 1445-1447. | 3.3 | 15 |
| 66 | Parametrization of nonlinear and chaotic oscillations in driven beam-plasma diodes. Physical Review E, 1998, 58, 936-941. | 2.1 | 13 |