

Kunwar Pal Singh

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

333
citations

758635

12
h-index

839053

18
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all docs

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docs citations

30
times ranked

249
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Electron acceleration by a radially polarized laser pulse during ionization of low density gases. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2011, 14, . | 1.8 | 31 |
| 2 | Effect of gate length and dielectric thickness on ion and fluid transport in a fluidic nanochannel. <i>Lab on A Chip</i> , 2012, 12, 1332. | 3.1 | 28 |
| 3 | Ion current rectification influenced by length and location of surface charge in fluidic unipolar conical nanopores. <i>Sensors and Actuators B: Chemical</i> , 2016, 230, 493-500. | 4.0 | 25 |
| 4 | Effect of surface charge density and electro-osmotic flow on ionic current in a bipolar nanopore fluidic diode. <i>Journal of Applied Physics</i> , 2011, 110, . | 1.1 | 24 |
| 5 | Effect of Nanochannel Diameter and Debye Length on Ion Current Rectification in a Fluidic Bipolar Diode. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22917-22924. | 1.5 | 23 |
| 6 | High-intensity terahertz generation by nonlinear frequency-mixing of lasers in plasma with DC magnetic field. <i>Laser and Particle Beams</i> , 2015, 33, 519-524. | 0.4 | 21 |
| 7 | Highly focused and efficient terahertz radiation generation by photo-mixing of lasers in plasma in the presence of magnetic field. <i>Physics of Plasmas</i> , 2014, 21, 073104. | 0.7 | 20 |
| 8 | Relativistic laser harmonic generation from plasmas with density ripple. <i>Optics Communications</i> , 2003, 226, 377-386. | 1.0 | 17 |
| 9 | Field-effect control of electrokinetic ion transport in a nanofluidic channel. <i>Journal of Applied Physics</i> , 2011, 110, 084301. | 1.1 | 17 |
| 10 | Ion current rectification in a fluidic bipolar nanochannel with smooth junction. <i>Applied Physics Letters</i> , 2011, 99, . | 1.5 | 17 |
| 11 | Electron acceleration by a linearly polarized laser pulse in the presence of a pulsed intense axial magnetic field in vacuum. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 1650. | 0.9 | 14 |
| 12 | Quasimonoenergetic collimated electrons from the ionization of nitrogen by a chirped intense laser pulse. <i>Physics of Plasmas</i> , 2009, 16, 043113. | 0.7 | 13 |
| 13 | Maximizing ion current rectification in a bipolar conical nanopore fluidic diode using optimum junction location. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27958-27966. | 1.3 | 13 |
| 14 | Current-voltage characteristics influenced by the nanochannel diameter and surface charge density in a fluidic field-effect-transistor. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 15701-15708. | 1.3 | 12 |
| 15 | Bright terahertz (THz) generation by frequency mixing of dichromatic lasers in inhomogeneous cold plasma: Scaling of THz field. <i>Physics of Plasmas</i> , 2020, 27, . | 0.7 | 9 |
| 16 | Efficient terahertz (THz) generation by nonlinear mixing of bicolor top-hat lasers in hot plasma. <i>Physics of Plasmas</i> , 2020, 27, . | 0.7 | 8 |
| 17 | Acceleration of electrons generated during ionization of a gas by a nearly flat profile laser pulse. <i>Physics of Plasmas</i> , 2009, 16, 093103. | 0.7 | 6 |
| 18 | The effect of laser pulse parameters and initial phase on the acceleration of electrons in a vacuum. <i>Physica Scripta</i> , 2008, 77, 045401. | 1.2 | 5 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Effect of initial phase on error in electron energy obtained using paraxial approximation for a focused laser pulse in vacuum. <i>Journal of Applied Physics</i> , 2015, 118, . | 1.1 | 5 |
| 20 | Acceleration of electrons generated during ionization of low density gases by a focused laser pulse. <i>Physics of Plasmas</i> , 2015, 22, . | 0.7 | 4 |
| 21 | Terahertz wave generation by photo mixing of radially polarized hollow sinh super-Gaussian lasers in hot plasma. <i>Europhysics Letters</i> , 2019, 126, 55001. | 0.7 | 4 |
| 22 | Modeling of intense terahertz wave generation with controlled field distribution. <i>Physics of Plasmas</i> , 2019, 26, 073107. | 0.7 | 4 |
| 23 | Optical field-ionization of a neutral gas with inhomogeneous density for electron acceleration by a high-intensity laser. <i>Physics of Plasmas</i> , 2012, 19, 023103. | 0.7 | 3 |
| 24 | Range of potential and electrolyte concentration for increase in electroosmotic flow contribution with channel diameter/width in nanochannels. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 492-499. | 4.0 | 3 |
| 25 | Investigation of effect of electron temperature on intensity and efficiency of terahertz generated by laser beating in inhomogeneous plasma. <i>Physica Scripta</i> , 2020, 95, 115007. | 1.2 | 3 |
| 26 | Quasimonoenergetic collimated electrons from the ionization of low density gases by a chirped intense Gaussian laser pulse. <i>Physics of Plasmas</i> , 2016, 23, 093111. | 0.7 | 2 |
| 27 | Electron energy enhancement by frequency chirp of a radially polarized laser pulse during ionization of low-density gases. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 115011. | 0.9 | 2 |
| 28 | Effect of laser polarization and target location on acceleration of electrons generated during ionization of gases by a laser pulse. <i>AIP Advances</i> , 2020, 10, . | 0.6 | 0 |
| 29 | Energy enhancement of accelerated electrons using a sharply chirped profile laser pulse in vacuum. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 095016. | 0.9 | 0 |
| 30 | Limitations of paraxial approximation to model electron acceleration by a laser pulse in vacuum in the presence of an axial magnetic field. <i>Plasma Research Express</i> , 2020, 2, 035013. | 0.4 | 0 |