

# 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  
g-index

30  
all docs

30  
docs citations

30  
times ranked

249  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of laser polarization and target location on acceleration of electrons generated during ionization of gases by a laser pulse. AIP Advances, 2020, 10, .	0.6	0
2	Bright terahertz (THz) generation by frequency mixing of dichromatic lasers in inhomogeneous cold plasma: Scaling of THz field. Physics of Plasmas, 2020, 27, .	0.7	9
3	Energy enhancement of accelerated electrons using a sharply chirped profile laser pulse in vacuum. Plasma Physics and Controlled Fusion, 2020, 62, 095016.	0.9	0
4	Efficient terahertz (THz) generation by nonlinear mixing of bicolor top-hat lasers in hot plasma. Physics of Plasmas, 2020, 27, .	0.7	8
5	Limitations of paraxial approximation to model electron acceleration by a laser pulse in vacuum in the presence of an axial magnetic field. Plasma Research Express, 2020, 2, 035013.	0.4	0
6	Investigation of effect of electron temperature on intensity and efficiency of terahertz generated by laser beating in inhomogeneous plasma. Physica Scripta, 2020, 95, 115007.	1.2	3
7	Terahertz wave generation by photo mixing of radially polarized hollow sinh super-Gaussian lasers in hot plasma. Europhysics Letters, 2019, 126, 55001.	0.7	4
8	Modeling of intense terahertz wave generation with controlled field distribution. Physics of Plasmas, 2019, 26, 073107.	0.7	4
9	Current-voltage characteristics influenced by the nanochannel diameter and surface charge density in a fluidic field-effect-transistor. Physical Chemistry Chemical Physics, 2017, 19, 15701-15708.	1.3	12
10	Range of potential and electrolyte concentration for increase in electroosmotic flow contribution with channel diameter/width in nanochannels. Sensors and Actuators B: Chemical, 2017, 244, 492-499.	4.0	3
11	Quasimonoenergic collimated electrons from the ionization of low density gases by a chirped intense Gaussian laser pulse. Physics of Plasmas, 2016, 23, 093111.	0.7	2
12	Electron energy enhancement by frequency chirp of a radially polarized laser pulse during ionization of low-density gases. Plasma Physics and Controlled Fusion, 2016, 58, 115011.	0.9	2
13	Ion current rectification influenced by length and location of surface charge in fluidic unipolar conical nanopores. Sensors and Actuators B: Chemical, 2016, 230, 493-500.	4.0	25
14	Maximizing ion current rectification in a bipolar conical nanopore fluidic diode using optimum junction location. Physical Chemistry Chemical Physics, 2016, 18, 27958-27966.	1.3	13
15	High-intensity terahertz generation by nonlinear frequency-mixing of lasers in plasma with DC magnetic field. Laser and Particle Beams, 2015, 33, 519-524.	0.4	21
16	Acceleration of electrons generated during ionization of low density gases by a focused laser pulse. Physics of Plasmas, 2015, 22, .	0.7	4
17	Effect of initial phase on error in electron energy obtained using paraxial approximation for a focused laser pulse in vacuum. Journal of Applied Physics, 2015, 118, .	1.1	5
18	Highly focused and efficient terahertz radiation generation by photo-mixing of lasers in plasma in the presence of magnetic field. Physics of Plasmas, 2014, 21, 073104.	0.7	20

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	Field-effect control of electrokinetic ion transport in a nanofluidic channel. <i>Journal of Applied Physics</i> , 2011, 110, 084301.	1.1	17
24	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
25	Ion current rectification in a fluidic bipolar nanochannel with smooth junction. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	17
26	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
27	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
28	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
29	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
30	Relativistic laser harmonic generation from plasmas with density ripple. <i>Optics Communications</i> , 2003, 226, 377-386.	1.0	17