

# Anil Kumar Malik

## List of Publications by Year in descending order

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24  
papers

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citations

1039406

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h-index

713013

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g-index

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all docs

24  
docs citations

24  
times ranked

109  
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential rotation of the solar transition region from STEREO/EUVI 30.4-nm images. Monthly Notices of the Royal Astronomical Society, 2021, 506, 4952-4959.	1.6	8
2	Terahertz Radiation Generation by Frequency Mixing of Hermite-Cosh Gaussian Laser Beams in Density-Modulated Cold Magnetized Plasma. IEEE Transactions on Plasma Science, 2021, 49, 3022-3028.	0.6	3
3	Evidence of a strong relationship between hemispheric asymmetry in solar coronal rotation and solar activity during solar cycle 24. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5442-5446.	1.6	8
4	On the variation of solar coronal rotation using SDO/AIA observations. Monthly Notices of the Royal Astronomical Society, 2020, 492, 5391-5398.	1.6	14
5	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
6	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
7	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
8	Efficient terahertz (THz) generation by nonlinear mixing of bicolor top-hat lasers in hot plasma. Physics of Plasmas, 2020, 27, .	0.7	8
9	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
10	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
11	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
12	Modeling of intense terahertz wave generation with controlled field distribution. Physics of Plasmas, 2019, 26, 073107.	0.7	4
13	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
14	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
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	Terahertz radiation generation by beating of two spatial-Gaussian lasers in the presence of a static magnetic field. Physical Review E, 2012, 85, 016401.	0.8	70
20	Strong and collimated terahertz radiation by super-Gaussian lasers. Europhysics Letters, 2012, 100, 45001.	0.7	45
21	Tunable and collimated terahertz radiation generation by femtosecond laser pulses. Applied Physics Letters, 2011, 99, .	1.5	40
22	Strong terahertz radiation by beating of spatial-triangular lasers in a plasma. Applied Physics Letters, 2011, 99, .	1.5	55
23	Terahertz radiation generation by beating of two spatial-Gaussian lasers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1191-1194.	0.9	62
24	Investigations on terahertz radiation generated by two superposed femtosecond laser pulses. Journal of Applied Physics, 2010, 107, .	1.1	57