

Mayur Kakati

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

382
citations

759233

12
h-index

794594

19
g-index

31
all docs

31
docs citations

31
times ranked

359
citing authors

#	ARTICLE	IF	CITATIONS
1	Solitary wave structures in presence of nonisothermal ions in a dusty plasma. <i>Physics of Plasmas</i> , 1998, 5, 4508-4510.	1.9	50
2	Synthesis of titanium oxide and titanium nitride nano-particles with narrow size distribution by supersonic thermal plasma expansion. <i>Vacuum</i> , 2008, 82, 833-841.	3.5	45
3	Measurements of time average series resonance effect in capacitively coupled radio frequency discharge plasma. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	35
4	Study of a supersonic thermal plasma expansion process for synthesis of nanostructured TiO ₂ . <i>Thin Solid Films</i> , 2009, 518, 84-90.	1.8	20
5	Plasma expansion synthesis of tungsten nanopowder. <i>Journal of Alloys and Compounds</i> , 2017, 725, 606-615.	5.5	19
6	Numerical investigation of nanoparticle synthesis in supersonic thermal plasma expansion. <i>Vacuum</i> , 2010, 85, 283-289.	3.5	18
7	Characteristics and Temperature Measurement of a Non-Transferred Cascaded DC Plasma Torch. <i>Plasma Science and Technology</i> , 2010, 12, 181-187.	1.5	16
8	Bulk synthesis of tungsten-oxide nanomaterials by a novel, plasma chemical reactor configuration, studies on their performance for waste-water treatment and hydrogen evolution reactions. <i>Chemical Engineering Journal</i> , 2022, 428, 131111.	12.7	16
9	Free-flowing, transparent Al_2O_3 -alumina nanoparticles synthesized by a supersonic thermal plasma expansion process. <i>Current Applied Physics</i> , 2012, 12, 880-884.	2.4	15
10	Study of charge distribution in a dust beam using a Faraday cup. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 860-865.	2.1	14
11	Plasma-assisted synthesis of carbon encapsulated magnetic nanoparticles with controlled sizes correlated to smooth variation of magnetic properties. <i>Carbon</i> , 2015, 84, 24-37.	10.3	14
12	Synthesis of finest superparamagnetic carbon-encapsulated magnetic nanoparticles by a plasma expansion method for biomedical applications. <i>Journal of Alloys and Compounds</i> , 2018, 749, 768-775.	5.5	13
13	Investigation on plasma parameters and step ionization from discharge characteristics of an atmospheric pressure Ar microplasma jet. <i>Physics of Plasmas</i> , 2012, 19, 064503.	1.9	12
14	Studies on a supersonic thermal plasma expansion process for synthesis of titanium nitride nanoparticles. <i>Powder Technology</i> , 2013, 246, 413-418.	4.2	12
15	Instrumental polarization caused by telescope optics during wide field imaging. <i>Astronomy and Astrophysics</i> , 1997, 126, 113-119.	2.1	12
16	The effect of the ambient plasma conditions on the variation of charge on dust grains. <i>Physics of Plasmas</i> , 2003, 10, 554-557.	1.9	11
17	An experiment to measure the equilibrium charge of dust particles embedded in a plasma. <i>Physics of Plasmas</i> , 2000, 7, 5263-5266.	1.9	10
18	The electrical asymmetry effect in a multi frequency geometrically asymmetric capacitively coupled plasma: A study by a nonlinear global model. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	9

#	ARTICLE	IF	CITATIONS
19	Rapid synthesis of carbon nanoparticles with an optimized combination of specific surface area and crystallinity by a plasma-assisted single-step process. Journal Physics D: Applied Physics, 2013, 46, 165501.	2.8	6
20	Studies on synthesis of plasma fusion relevant tungsten dust particles and measurement of their hydrogen absorption properties. Fusion Engineering and Design, 2018, 127, 120-126.	1.9	6
21	Size-controlled synthesis of superparamagnetic iron-oxide and iron-oxide/iron/carbon nanotube nanocomposites by supersonic plasma expansion technique. Journal Physics D: Applied Physics, 2015, 51, 195003.	2.8	5
22	Design, development and recent experiments of the CIMPLE-PSI device. Nuclear Fusion, 2019, 59, 112008.	3.5	5
23	Variation of axial and radial temperature in an expanded thermal plasma jet. Journal of Plasma Physics, 2010, 76, 699-707.	2.1	4
24	Unused to useful: Recycling plasma chamber coated waste composite of ZnO and $\hat{\text{I}}\pm\text{-Fe2O3}$ into an active material for sustainable waste-water treatment. Chemical Engineering Journal Advances, 2021, 7, 100120.	5.2	4
25	Development of a plasma assisted ITER level controlled heat source and observation of novel micro/nanostructures produced upon exposure of tungsten targets. Fusion Engineering and Design, 2016, 106, 63-70.	1.9	3
26	Single-step, DC thermal plasma-assisted synthesis of Ag-C nanocomposites with less than 10 nm sizes for antibacterial applications. Journal Physics D: Applied Physics, 2020, 53, 365201.	2.8	3
27	Synthesis of Titania Nanoparticles by Supersonic Plasma Expansion: Effect of Lowering Chamber Pressure. Nanoscience and Nanotechnology Letters, 2013, 4, 348-351.	0.4	2
28	Coherent structures in presence of dust charge fluctuations. Pramana - Journal of Physics, 2000, 54, 771-776.	1.8	1
29	Study of Charge Distribution in a Dust Beam using a Faraday Cup Assembly. AIP Conference Proceedings, 2005, , .	0.4	0
30	Arc Plasma Synthesis of Nanostructured Materials: Techniques and Innovations. , 2008, , .		0