

Bhuvana Srinivasan

List of Publications by Year in descending order

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42
papers

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citations

759233

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46
all docs

46
docs citations

46
times ranked

503
citing authors

#	ARTICLE	IF	CITATIONS
1	Bohm Criterion of Plasma Sheaths away from Asymptotic Limits. Physical Review Letters, 2022, 128, 085002.	7.8	9
2	Deceleration-stage Rayleigh-Taylor growth in a background magnetic field studied in cylindrical and Cartesian geometries. Matter and Radiation at Extremes, 2022, 7, .	3.9	6
3	Investigating the impact of the latitudinal velocity profile on nonlinear gradient drift instability development in the subauroral ionosphere. Radiation Effects and Defects in Solids, 2022, 177, 2-14.	1.2	1
4	The effect of viscosity and resistivity on Rayleigh-Taylor instability induced mixing in magnetized high-energy-density plasmas. Journal of Plasma Physics, 2022, 88, .	2.1	3
5	Kinetic interpretation of the classical Rayleigh-Taylor instability. Physical Review E, 2022, 105, .	2.1	0
6	Cross-code verification and sensitivity analysis to effectively model the electrothermal instability. High Energy Density Physics, 2021, 38, 100925.	1.5	4
7	Modeling the dominance of the gradient drift or Kelvin-Helmholtz instability in sheared ionospheric E _z -B flows. Physics of Plasmas, 2021, 28, .	1.9	6
8	Investigation of the Gradient Drift Instability as a Cause of Density Irregularities in Subauroral Polarization Streams. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029027.	2.4	6
9	An efficient reconstruction algorithm for diffusion on triangular grids using the nodal discontinuous Galerkin method. Computer Physics Communications, 2021, 264, 107873.	7.5	2
10	A boundary value ϵ -reservoir problem and boundary conditions for multi-moment multifluid simulations of sheaths. Physics of Plasmas, 2021, 28, .	1.9	2
11	The effect of anomalous resistivity on fast electrothermal instability. Physics of Plasmas, 2021, 28, 102106.	1.9	3
12	Plasma-material boundary conditions for discontinuous Galerkin continuum-kinetic simulations, with a focus on secondary electron emission. Journal of Computational Physics, 2020, 406, 109215.	3.8	4
13	A survey of the effects of magnetic fields, resistivity, viscosity and thermal conduction on the Rayleigh-Taylor instability. Radiation Effects and Defects in Solids, 2020, 175, 1009-1014.	1.2	6
14	Likelihood of gradient drift instability development during the August 21, 2017 solar eclipse. Radiation Effects and Defects in Solids, 2020, 175, 136-140.	1.2	1
15	Multidimensional Tests of a Finite-Volume Solver for MHD With a Real-Gas Equation of State. IEEE Transactions on Plasma Science, 2020, 48, 902-913.	1.3	1
16	Using cylindrical implosions to investigate hydrodynamic instabilities in convergent geometry. Matter and Radiation at Extremes, 2019, 4, 065403.	3.9	25
17	A survey of fluid and kinetic instabilities relevant to space and laboratory plasmas. Radiation Effects and Defects in Solids, 2019, 174, 31-45.	1.2	3
18	Role of electron inertia and electron/ion finite Larmor radius effects in low-beta, magneto-Rayleigh-Taylor instability. Physics of Plasmas, 2018, 25, .	1.9	5

#	ARTICLE	IF	CITATIONS
19	Hall thruster relevant continuum kinetic sheaths simulations with self-consistent secondary electron emission. , 2018, , .		0
20	Continuum kinetic and multi-fluid simulations of classical sheaths. Physics of Plasmas, 2017, 24, .	1.9	41
21	Recent advances in plasma modeling for space applications. Radiation Effects and Defects in Solids, 2017, 172, 74-80.	1.2	1
22	Continuum kinetic simulations of magnetized sheaths in Hall thrusters with secondary electron emission. , 2017, , .		1
23	Nonlinear saturation of the Weibel instability. Physics of Plasmas, 2017, 24, .	1.9	16
24	Kinetic studies of ICF implosions. Journal of Physics: Conference Series, 2016, 717, 012027.	0.4	1
25	Multi-fluid studies of plasma shocks relevant to inertial confinement fusion. Journal of Physics: Conference Series, 2016, 717, 012054.	0.4	3
26	Plasma physics effects on thermonuclear burn rate in the presence of hydrodynamic mix. Journal of Physics: Conference Series, 2016, 688, 012123.	0.4	0
27	Simulations of plasma sheaths using continuum kinetic models. , 2016, , .		0
28	Continuum Kinetic Study of Magnetized Sheaths for Use in Hall Thrusters. , 2016, , .		1
29	Combined x-ray scattering, radiography, and velocity interferometry/streaked optical pyrometry measurements of warm dense carbon using a novel technique of shock-and-release. Physics of Plasmas, 2014, 21, .	1.9	13
30	Publisher's Note: Equation of State Measurements of Warm Dense Carbon Using Laser-Driven Shock and Release Technique [Phys. Rev. Lett. 112, 155003 (2014)]. Physical Review Letters, 2014, 112, .	7.8	0
31	Mitigating hydrodynamic mix at the gas-ice interface with a combination of magnetic, ablative, and viscous stabilization. Europhysics Letters, 2014, 107, 65001.	2.0	13
32	Role of hydrodynamic instability growth in hot-spot mass gain and fusion performance of inertial confinement fusion implosions. Physics of Plasmas, 2014, 21, 102704.	1.9	8
33	Equation of State Measurements of Warm Dense Carbon Using Laser-Driven Shock and Release Technique. Physical Review Letters, 2014, 112, 155003.	7.8	38
34	The mitigating effect of magnetic fields on Rayleigh-Taylor unstable inertial confinement fusion plasmas. Physics of Plasmas, 2013, 20, .	1.9	43
35	Magnetic field generation in Rayleigh-Taylor unstable inertial confinement fusion plasmas. Physical Review Letters, 2012, 108, 165002.	7.8	61
36	Mechanism for magnetic field generation and growth in Rayleigh-Taylor unstable inertial confinement fusion plasmas. Physics of Plasmas, 2012, 19, 082703.	1.9	39

#	ARTICLE	IF	CITATIONS
37	Numerical Methods for Two-Fluid Dispersive Fast MHD Phenomena. Communications in Computational Physics, 2011, 10, 183-215.	1.7	25
38	Advanced physics calculations using a multi-fluid plasma model. Computer Physics Communications, 2011, 182, 1767-1770.	7.5	62
39	Analytical and computational study of the ideal full two-fluid plasma model and asymptotic approximations for Hall-magnetohydrodynamics. Physics of Plasmas, 2011, 18, .	1.9	48
40	A study of 3-dimensional plasma configurations using the two-fluid plasma model. , 2009, , .		2
41	Comparisons and Applications of Two Fluid Plasma Algorithms. , 2008, , .		0
42	Comparisons of Two-Fluid Plasma Models. , 2008, , .		1