

Robert Merlino

List of Publications by Year in descending order

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52
papers

3,605
citations

304743

22
h-index

214800

47
g-index

54
all docs

54
docs citations

54
times ranked

928
citing authors

#	ARTICLE	IF	CITATIONS
1	Dusty plasmas: from Saturn's rings to semiconductor processing devices. <i>Advances in Physics: X</i> , 2021, 6, .	4.1	15
2	Further developments on observations of the Taylor instability in a dusty plasma. <i>Physics of Plasmas</i> , 2020, 27, 084501.	1.9	1
3	Laser-induced fluorescence measurements of ion fluctuations in electron and ion presheaths. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	8
4	Coulomb explosion and fission of charged dust clusters. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	6
5	The magnetized dusty plasma experiment (MDPX). <i>AIP Conference Proceedings</i> , 2018, , .	0.4	5
6	Methods for the characterization of imposed, ordered structures in MDPX. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	15
7	Ion flow and sheath structure near positively biased electrodes. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	24
8	Clausius' entropy revisited. <i>Modern Physics Letters B</i> , 2014, 28, 1450073.	1.9	2
9	Note on the Nature of the Transition of a System in a Non-equilibrium State to a System in an Equilibrium State. <i>Journal of Computational and Theoretical Transport</i> , 2014, 43, 3-5.	0.8	2
10	Preliminary characteristics of magnetic field and plasma performance in the Magnetized Dusty Plasma Experiment (MDPX). <i>Journal of Plasma Physics</i> , 2014, 80, 803-808.	2.1	16
11	Low-frequency electrostatic waves in a magnetized, current-free, heavy negative ion plasma. <i>Journal of Plasma Physics</i> , 2013, 79, 1107-1111.	2.1	17
12	Design Criteria for the Magnetized Dusty Plasma eXperiment. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 811-815.	1.3	19
13	Drift instability in a positive ion-negative ion plasma. <i>Journal of Plasma Physics</i> , 2013, 79, 949-952.	2.1	20
14	Interaction of a biased cylinder with a flowing dusty plasma. <i>Journal of Plasma Physics</i> , 2013, 79, 677-682.	2.1	8
15	Secondary dust density waves excited by nonlinear dust acoustic waves. <i>Physics of Plasmas</i> , 2012, 19, 083702.	1.9	9
16	Observation of the Taylor instability in a dusty plasma. <i>Physics of Plasmas</i> , 2012, 19, 014501.	1.9	18
17	Magnetized dusty plasmas: the next frontier for complex plasma research. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 124034.	2.1	117
18	Experimental quiescent drifting dusty plasmas and temporal dust acoustic wave growth. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	20

#	ARTICLE	IF	CITATIONS
19	On the possibility of refraction of dust acoustic waves. Journal of Plasma Physics, 2011, 77, 231-236.	2.1	3
20	10.1063/1.3660546.1., 2011, , .		1
21	Dust jets produced by a dust-discharge instability. Physics of Plasmas, 2010, 17, 083702.	1.9	0
22	Instability of higher harmonic electrostatic ion cyclotron waves in a negative ion plasma. Journal of Plasma Physics, 2009, 75, 495-508.	2.1	27
23	Laboratory Observations of Self-Excited Dust Acoustic Shocks. Physical Review Letters, 2009, 103, 115002.	7.8	129
24	A note on dust wave excitation in a plasma with warm dust: Comparison with experiment. Physics of Plasmas, 2008, 15, .	1.9	55
25	Dispersion Relation of Dust Acoustic Waves in a dc Glow Discharge Plasma. , 2007, , .		0
26	Dust Ion-Acoustic Shocks in a Q Machine Device. Contributions To Plasma Physics, 2005, 45, 461-475.	1.1	34
27	The Effect of Ion Flow Shear on Electrostatic Ion-Cyclotron Waves. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
28	Probe induced voids in a dusty plasma. Physics of Plasmas, 2004, 11, 1770-1774.	1.9	46
29	Electrostatic ion-cyclotron waves driven by parallel velocity shear. Physics of Plasmas, 2002, 9, 1824-1825.	1.9	23
30	The Kelvin-Helmholtz instability in a plasma with negatively charged dust. Physics of Plasmas, 2001, 8, 31-35.	1.9	27
31	Ion acoustic shock formation in a converging magnetic field geometry. Physics of Plasmas, 2000, 7, 2370-2373.	1.9	24
32	The interaction of stationary and moving objects with dusty plasmas. Physics of Plasmas, 1999, 6, 1421-1426.	1.9	42
33	Experimental study of shock formation in a dusty plasma. Physics of Plasmas, 1999, 6, 3455-3458.	1.9	173
34	Laboratory studies of waves and instabilities in dusty plasmas. Physics of Plasmas, 1998, 5, 1607-1614.	1.9	469
35	Shock formation in a negative ion plasma. Physics of Plasmas, 1998, 5, 2868-2870.	1.9	76
36	Experiments on ion and dust acoustic waves. , 1998, , .		4

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37	Dust acoustic waves in a direct current glow discharge. <i>Physics of Plasmas</i> , 1997, 4, 2331-2335.	1.9	245
38	Laboratory observation of the dust-acoustic wave mode. <i>Physics of Plasmas</i> , 1995, 2, 3563-3565.	1.9	1,218
39	Confinement of dust particles in a double layer. <i>Physics of Plasmas</i> , 1995, 2, 3261-3265.	1.9	77
40	Filamentary double layers. <i>Physics of Plasmas</i> , 1994, 1, 1345-1348.	1.9	7
41	Charging of Dust Grains in a Plasma. <i>Physical Review Letters</i> , 1994, 73, 3093-3096.	7.8	302
42	Lower-hybrid waves in a plasma with negative ions. <i>Physics of Fluids B</i> , 1993, 5, 1917-1918.	1.7	10
43	Ion-acoustic waves in a plasma with negative ions. <i>Physics of Fluids B</i> , 1991, 3, 284-287.	1.7	108
44	Transition from moving to stationary double layers in a single-ended Q machine. <i>Physics of Fluids B</i> , 1990, 2, 1936-1940.	1.7	4
45	Electrostatic ion-cyclotron waves in a plasma with negative ions. <i>Physics of Fluids B</i> , 1989, 1, 2316-2318.	1.7	80
46	Influence of the ion/neutral atom mass ratio on the damping of electrostatic ion-cyclotron waves. <i>Physics of Fluids</i> , 1987, 30, 3304.	1.4	7
47	The interaction of a conducting object with a supersonic plasma flow: ion deflection near a negatively charged obstacle. <i>Journal of Plasma Physics</i> , 1987, 37, 185-198.	2.1	24
48	Electrostatic Ion-Cyclotron Waves in a Plasma with Negative Ions. <i>IEEE Transactions on Plasma Science</i> , 1986, 14, 285-286.	1.3	30
49	The Effect of a Magnetic Field on Wake Potential Structures. <i>IEEE Transactions on Plasma Science</i> , 1986, 14, 609-610.	1.3	11
50	Sudden Jumps, Hysteresis, and Negative Resistance in an Argon Plasma Discharge. I. Discharges with No Magnetic Field. <i>Beitrage Aus Der Plasmaphysik</i> , 1986, 26, 1-12.	0.1	15
51	Sudden Jumps, Hysteresis, and Negative Resistance in an Argon Plasma Discharge. II. Discharges in Magnetic Fields. <i>Beitrage Aus Der Plasmaphysik</i> , 1986, 26, 13-17.	0.1	7
52	Confinement of a potassium plasma in a spindle cusp magnetic field. <i>Journal of Applied Physics</i> , 1986, 60, 3056-3067.	2.5	5