Mierk Schwabe

List of Publications by Year
in descending order

46 papers	954 citations	430874 18 h-index	434195 31 g-index
46 all docs	46 docs citations	46 times ranked	350 citing authors

#	Article	IF	Citations
1	Spatial distribution of dust density wave properties in fluid complex plasmas. Physical Review E, 2022, 105, 025202.	2.1	7
2	Penetration of a supersonic particle at the interface in a binary complex plasma. Physical Review E, 2021, 103, 013205.	2.1	3
3	Formation of droplets in weightless complex plasmas. Contributions To Plasma Physics, 2021, 61, e202100081.	1.1	2
4	Reflection and transmission of an incident solitary wave at an interface of a binary complex plasma in a microgravity condition. Physical Review E, 2021, 104, 025206.	2.1	7
5	Slowing of acoustic waves in electrorheological and string-fluid complex plasmas. New Journal of Physics, 2020, 22, 083079.	2.9	28
6	Interfacial Phenomena in a Phase-Separated Binary Complex Plasma: Experiments and Simulations. , 2020, , .		0
7	Image Registration with Particles, Examplified with the Complex Plasma Laboratory PK-4 on Board the International Space Station. Journal of Imaging, 2019, 5, 39.	3.0	4
8	Identification of the Interface in a Binary Complex Plasma Using Machine Learning. Journal of Imaging, 2019, 5, 36.	3.0	8
9	Complex plasma research on the International Space Station. Plasma Physics and Controlled Fusion, 2019, 61, 014004.	2.1	26
10	Interaction of a supersonic particle with a three-dimensional complex plasma. Physics of Plasmas, 2018, 25, .	1.9	8
11	Supersonic particle in a low damped complex plasma under microgravity conditions. AIP Conference Proceedings, 2018, , .	0.4	1
12	Turbulence in an Auto-Oscillating Complex Plasma. IEEE Transactions on Plasma Science, 2018, 46, 684-687.	1.3	6
13	Latest Results on Complex Plasmas with the PK-3 Plus Laboratory on Board the International Space Station. Microgravity Science and Technology, 2018, 30, 581-589.	1.4	12
14	Experimental investigation of dynamical structures formed due to a complex plasma flowing past an obstacle. Physics of Plasmas, 2018, 25, .	1.9	8
15	Dissipative solitary wave at the interface of a binary complex plasma. Europhysics Letters, 2018, 122, 55001.	2.0	15
16	Density waves at the interface of a binary complex plasma. Europhysics Letters, 2017, 117, 25001.	2.0	17
17	Instability onset and scaling laws of an auto-oscillating turbulent flow in a complex plasma. Physical Review E, 2017, 95, 041201.	2.1	13
18	Observation of metallic sphereâ€“complex plasma interactions in microgravity. New Journal of Physics, 2017, 19, 103019.	2.9	14

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19	Wake turbulence observed behind an upstream â€œextraâ€•particle in a complex (dusty) plasma. Europhysics Letters, 2016, 114, 55002.	2.0	4
20	Wave turbulence observed in an auto-oscillating complex (dusty) plasma. Europhysics Letters, 2015, 110, 35001.	2.0	24
21	Measurement of the speed of sound by observation of the Mach cones in a complex plasma under microgravity conditions. Physics of Plasmas, 2015, 22, .	1.9	15
22	Collective Effects in Vortex Movements in Complex Plasmas. Physical Review Letters, 2014, 112, 115002.	7.8	51
23	Simulating the dynamics of complex plasmas. Physical Review E, 2013, 88, 023101.	2.1	34
24	Combined Ramanâ€ÐLTS investigations of nâ€•type Cuâ€“Inâ€“S absorber layers grown on Cu tape substrate (CISCuT). Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 222-225.	1.8	1
25	The effect of a direct current field on the microparticle charge in the plasma afterglow. Physics of Plasmas, 2013, 20, 123702.	1.9	25
26	Autowaves in a dc complex plasma confined behind a de Laval nozzle. Europhysics Letters, 2013, 102, 45001.	2.0	15
27	Experimental investigation on lane formation in complex plasmas under microgravity conditions. New Journal of Physics, 2012, 14, 073058.	2.9	26
28	Apparent surface tension in complex (dusty) plasmas. , 2012, , .		0
29	Nonviscous motion of a slow particle in a dust crystal under microgravity conditions. Physical Review E, 2012, 86, 016401.	2.1	20
30	Fluid-solid phase transitions in three-dimensional complex plasmas under microgravity conditions. Physical Review E, 2012, 85, 066407.	2.1	62
31	Exploring the limits of cooperative phenomena using complex plasmas. AIP Conference Proceedings, 2011, , .	0.4	0
32	Pattern Formation in a Complex Plasma in High Magnetic Fields. Physical Review Letters, 2011, 106, 215004.	7.8	104
33	Bursting Bubbles in a Complex Plasma. IEEE Transactions on Plasma Science, 2011, 39, 2726-2727.	1.3	2
34	Comprehensive experimental study of heartbeat oscillations observed under microgravity conditions in the PK-3 Plus laboratory on board the International Space Station. Physics of Plasmas, 2011, 18, 053701.	1.9	28
35	Direct measurement of the speed of sound in a complex plasma under microgravity conditions. Europhysics Letters, 2011, 96, 55001.	2.0	49
36	Interpenetration of two clouds of microparticles in complex plasma under microgravity conditions. AIP Conference Proceedings, 2011, , .	0.4	1

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37	Convection in a dusty radio-frequency plasma under the influence of a thermal gradient. New Journal of Physics, 2011, 13, 083034.	2.9	20
38	Auto-oscillations in complex plasmas. New Journal of Physics, 2010, 12, 043006.	2.9	21
39	Collective effects in complex plasma. Plasma Sources Science and Technology, 2010, 19, 065026.	3.1	3
40	Mach cones in a three-dimensional complex plasma. Europhysics Letters, 2009, 85, 45002.	2.0	33
41	Formation of Bubbles, Blobs, and Surface Cusps in Complex Plasmas. Physical Review Letters, 2009, 102, 255005.	7.8	39
42	Nonlinear waves externally excited in a complex plasma under microgravity conditions. New Journal of Physics, 2008, 10, 033037.	2.9	64
43	New Directions of Research in Complex Plasmas on the International Space Station. AIP Conference Proceedings, 2008, , .	0.4	0
44	Highly Resolved Self-Excited Density Waves in a Complex Plasma. Physical Review Letters, 2007, 99, 095002.	7.8	116
45	Complex Plasmas in Strong Magnetic Field Environments. AIP Conference Proceedings, 2005, , .	0.4	18
46	Collective effects in complex/dusty plasmas. Postdoc Journal, 0, , .	0.4	0