

Mierk Schwabe

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Highly Resolved Self-Excited Density Waves in a Complex Plasma. <i>Physical Review Letters</i> , 2007, 99, 095002. | 7.8 | 116 |
| 2 | Pattern Formation in a Complex Plasma in High Magnetic Fields. <i>Physical Review Letters</i> , 2011, 106, 215004. | 7.8 | 104 |
| 3 | Nonlinear waves externally excited in a complex plasma under microgravity conditions. <i>New Journal of Physics</i> , 2008, 10, 033037. | 2.9 | 64 |
| 4 | Fluid-solid phase transitions in three-dimensional complex plasmas under microgravity conditions. <i>Physical Review E</i> , 2012, 85, 066407. | 2.1 | 62 |
| 5 | Collective Effects in Vortex Movements in Complex Plasmas. <i>Physical Review Letters</i> , 2014, 112, 115002. | 7.8 | 51 |
| 6 | Direct measurement of the speed of sound in a complex plasma under microgravity conditions. <i>Europhysics Letters</i> , 2011, 96, 55001. | 2.0 | 49 |
| 7 | Formation of Bubbles, Blobs, and Surface Cusps in Complex Plasmas. <i>Physical Review Letters</i> , 2009, 102, 255005. | 7.8 | 39 |
| 8 | Simulating the dynamics of complex plasmas. <i>Physical Review E</i> , 2013, 88, 023101. | 2.1 | 34 |
| 9 | Mach cones in a three-dimensional complex plasma. <i>Europhysics Letters</i> , 2009, 85, 45002. | 2.0 | 33 |
| 10 | Comprehensive experimental study of heartbeat oscillations observed under microgravity conditions in the PK-3 Plus laboratory on board the International Space Station. <i>Physics of Plasmas</i> , 2011, 18, 053701. | 1.9 | 28 |
| 11 | Slowing of acoustic waves in electrorheological and string-fluid complex plasmas. <i>New Journal of Physics</i> , 2020, 22, 083079. | 2.9 | 28 |
| 12 | Experimental investigation on lane formation in complex plasmas under microgravity conditions. <i>New Journal of Physics</i> , 2012, 14, 073058. | 2.9 | 26 |
| 13 | Complex plasma research on the International Space Station. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 014004. | 2.1 | 26 |
| 14 | The effect of a direct current field on the microparticle charge in the plasma afterglow. <i>Physics of Plasmas</i> , 2013, 20, 123702. | 1.9 | 25 |
| 15 | Wave turbulence observed in an auto-oscillating complex (dusty) plasma. <i>Europhysics Letters</i> , 2015, 110, 35001. | 2.0 | 24 |
| 16 | Auto-oscillations in complex plasmas. <i>New Journal of Physics</i> , 2010, 12, 043006. | 2.9 | 21 |
| 17 | Convection in a dusty radio-frequency plasma under the influence of a thermal gradient. <i>New Journal of Physics</i> , 2011, 13, 083034. | 2.9 | 20 |
| 18 | Nonviscous motion of a slow particle in a dust crystal under microgravity conditions. <i>Physical Review E</i> , 2012, 86, 016401. | 2.1 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Complex Plasmas in Strong Magnetic Field Environments. AIP Conference Proceedings, 2005, , . | 0.4 | 18 |
| 20 | Density waves at the interface of a binary complex plasma. Europhysics Letters, 2017, 117, 25001. | 2.0 | 17 |
| 21 | Autowaves in a dc complex plasma confined behind a de Laval nozzle. Europhysics Letters, 2013, 102, 45001. | 2.0 | 15 |
| 22 | 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 |
| 23 | Dissipative solitary wave at the interface of a binary complex plasma. Europhysics Letters, 2018, 122, 55001. | 2.0 | 15 |
| 24 | Observation of metallic sphereâ€™complex plasma interactions in microgravity. New Journal of Physics, 2017, 19, 103019. | 2.9 | 14 |
| 25 | Instability onset and scaling laws of an auto-oscillating turbulent flow in a complex plasma. Physical Review E, 2017, 95, 041201. | 2.1 | 13 |
| 26 | 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 |
| 27 | Interaction of a supersonic particle with a three-dimensional complex plasma. Physics of Plasmas, 2018, 25, . | 1.9 | 8 |
| 28 | Experimental investigation of dynamical structures formed due to a complex plasma flowing past an obstacle. Physics of Plasmas, 2018, 25, . | 1.9 | 8 |
| 29 | Identification of the Interface in a Binary Complex Plasma Using Machine Learning. Journal of Imaging, 2019, 5, 36. | 3.0 | 8 |
| 30 | 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 |
| 31 | Spatial distribution of dust density wave properties in fluid complex plasmas. Physical Review E, 2022, 105, 025202. | 2.1 | 7 |
| 32 | Turbulence in an Auto-Oscillating Complex Plasma. IEEE Transactions on Plasma Science, 2018, 46, 684-687. | 1.3 | 6 |
| 33 | Wake turbulence observed behind an upstream â€™extraâ€™-particle in a complex (dusty) plasma. Europhysics Letters, 2016, 114, 55002. | 2.0 | 4 |
| 34 | Image Registration with Particles, Exemplified with the Complex Plasma Laboratory PK-4 on Board the International Space Station. Journal of Imaging, 2019, 5, 39. | 3.0 | 4 |
| 35 | Collective effects in complex plasma. Plasma Sources Science and Technology, 2010, 19, 065026. | 3.1 | 3 |
| 36 | Penetration of a supersonic particle at the interface in a binary complex plasma. Physical Review E, 2021, 103, 013205. | 2.1 | 3 |

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|----|---|-----|-----------|
| 37 | Bursting Bubbles in a Complex Plasma. IEEE Transactions on Plasma Science, 2011, 39, 2726-2727. | 1.3 | 2 |
| 38 | Formation of droplets in weightless complex plasmas. Contributions To Plasma Physics, 2021, 61, e202100081. | 1.1 | 2 |
| 39 | Interpenetration of two clouds of microparticles in complex plasma under microgravity conditions. AIP Conference Proceedings, 2011, , . | 0.4 | 1 |
| 40 | Combined Ramanâ€”DLTS 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 |
| 41 | Supersonic particle in a low damped complex plasma under microgravity conditions. AIP Conference Proceedings, 2018, , . | 0.4 | 1 |
| 42 | New Directions of Research in Complex Plasmas on the International Space Station. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |
| 43 | Exploring the limits of cooperative phenomena using complex plasmas. AIP Conference Proceedings, 2011, , . | 0.4 | 0 |
| 44 | Apparent surface tension in complex (dusty) plasmas. , 2012, , . | | 0 |
| 45 | Collective effects in complex/dusty plasmas. Postdoc Journal, 0, , . | 0.4 | 0 |
| 46 | Interfacial Phenomena in a Phase-Separated Binary Complex Plasma: Experiments and Simulations. , 2020, , . | | 0 |