

Daoru Han

List of Publications by Year in descending order

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18
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#	ARTICLE	IF	CITATIONS
1	A 3D immersed finite element method with non-homogeneous interface flux jump for applications in particle-in-cell simulations of plasma-lunar surface interactions. <i>Journal of Computational Physics</i> , 2016, 321, 965-980.	3.8	49
2	A Nonhomogeneous Immersed-Finite-Element Particle-in-Cell Method for Modeling Dielectric Surface Charging in Plasmas. <i>IEEE Transactions on Plasma Science</i> , 2016, 44, 1326-1332.	1.3	30
3	Immersed Finite Element Particle-in-Cell Simulations of Plasma Charging at the Lunar Terminator. <i>Journal of Spacecraft and Rockets</i> , 2018, 55, 1490-1497.	1.9	25
4	Kinetic Simulations of Plasma Plume Potential in a Vacuum Chamber. <i>IEEE Transactions on Plasma Science</i> , 2015, 43, 3047-3053.	1.3	22
5	PIFE-PIC: A 3-D Parallel Immersed Finite Element Particle-in-Cell Framework for Plasma Simulations. , 2018, , .		12
6	PIFE-PIC: Parallel Immersed Finite Element Particle-in-Cell for 3-D Kinetic Simulations of Plasma-Material Interactions. <i>SIAM Journal of Scientific Computing</i> , 2021, 43, C235-C257.	2.8	12
7	3-D Fully Kinetic Particle-in-Cell Simulations of Small Asteroid Charging in the Solar Wind. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 3682-3688.	1.3	9
8	Numerical Simulations of Dust Dynamics Around Small Asteroids. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 3724-3730.	1.3	9
9	Simulations of Ion Thruster Plume Contamination with A Whole Grid Sputtered Mo Source Model. , 2013, , .		8
10	Photoelectron Sheath and Plasma Charging on the Lunar Surface: Semianalytic Solutions and Fully-Kinetic Particle-in-Cell Simulations. <i>IEEE Transactions on Plasma Science</i> , 2021, 49, 3036-3050.	1.3	8
11	Approximation to multivariate normal integral and its application in time-dependent reliability analysis. <i>Structural Safety</i> , 2021, 88, 102008.	5.3	7
12	Numerical Modeling of Dust Dynamics Around Small Asteroids. , 2016, , .		5
13	Photoelectron Sheath near the Lunar Surface: Fully Kinetic Modeling and Uncertainty Quantification Analysis. , 2020, , .		5
14	A review of approaches to simulate windborne debris dynamics in wind fields. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 212, 104597.	3.9	3
15	Kinetic Particle Simulations of Plasma Charging and Dust Transport near Uneven Lunar Surface Terrain. , 2022, , .		3
16	Adaptive Kriging Method for Uncertainty Quantification of the Photoelectron Sheath and Dust Levitation on the Lunar Surface. <i>Journal of Verification, Validation and Uncertainty Quantification</i> , 2021, 6, .	0.4	2
17	Weak scaling of the parallel immersed-finite-element particle-in-cell (PIFE-PIC) framework with lunar plasma charging simulations. <i>Computational Particle Mechanics</i> , 2022, 9, 1279-1291.	3.0	2
18	Kinetic Particle Simulations of Dust Charging in Low Temperature Collisionless Plasmas. , 2022, , .		1