

Yuan Hu

List of Publications by Year in descending order

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17
papers

210
citations

1307594

7
h-index

1199594

12
g-index

18
all docs

18
docs citations

18
times ranked

155
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron Properties in Collisionless Mesothermal Plasma Expansion: Fully Kinetic Simulations. IEEE Transactions on Plasma Science, 2015, 43, 2832-2838.	1.3	44
2	Fully kinetic simulations of collisionless, mesothermal plasma emission: Macroscopic plume structure and microscopic electron characteristics. Physics of Plasmas, 2017, 24, .	1.9	31
3	Expansion of a collisionless hypersonic plasma plume into a vacuum. Physical Review E, 2018, 98, 023204.	2.1	24
4	Kinetic Simulations of Plasma Plume Potential in a Vacuum Chamber. IEEE Transactions on Plasma Science, 2015, 43, 3047-3053.	1.3	22
5	On the limitations of hybrid particle-in-cell for ion thruster plume simulations. Physics of Plasmas, 2019, 26, .	1.9	20
6	Development of a stagnation streamline model for thermochemical nonequilibrium flow. Physics of Fluids, 2020, 32, .	4.0	17
7	The Breakdown of the Fluid Approximation for Electrons in a Plasma Wake. Journal of Geophysical Research: Space Physics, 2018, 123, 8797-8805.	2.4	11
8	Kinetic insights into thrust generation and electron transport in a magnetic nozzle. Plasma Sources Science and Technology, 0, , .	3.1	11
9	Geometrically self-similar ion acceleration in collisionless plasma beam expansion. Plasma Sources Science and Technology, 2020, 29, 125004.	3.1	8
10	Assessment of electron thermodynamic and fluid approximations for collisionless plasma expansion into a wake. Physics of Plasmas, 2019, 26, .	1.9	7
11	Study of the coupling between real gas effects and rarefied effects on hypersonic aerodynamics. , 2012, , .		4
12	Hypersonic aerodynamics of a flat plate: Bridging formula and wall temperature effects. AIP Conference Proceedings, 2012, , .	0.4	4
13	Simulation of Gas Flow Over a Micro Cylinder. , 2009, , .		3
14	Directional melting of alumina via polarized microwave heating. Applied Physics Letters, 2017, 110, .	3.3	2
15	Direct Grid-Based Vlasov Simulation of Collisionless Plasma Expansion of Ion Thruster Plume. , 2019, , .		1
16	Plasma Wake Simulation for Charged Space Platforms: Fully Kinetic PIC Versus Hybrid PIC. IEEE Transactions on Plasma Science, 2019, 47, 3731-3738.	1.3	1
17	Implementation of neutralizing fields for particleâ€“particle simulations using like charges. Journal of Plasma Physics, 2021, 87, .	2.1	0