

# Abdourahmane Diaw

## List of Publications by Year in descending order

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15  
papers

230  
citations

933447

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h-index

1058476

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g-index

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15  
docs citations

15  
times ranked

250  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of electron transport models on capillary discharge plasmas. <i>Physics of Plasmas</i> , 2022, 29, 063101.	1.9	0
2	Designing radiation transport tests: Simulation-driven uncertainty-quantification of the COAX temperature diagnostic. <i>High Energy Density Physics</i> , 2020, 35, 100738.	1.5	7
3	Multiscale simulation of plasma flows using active learning. <i>Physical Review E</i> , 2020, 102, 023310.	2.1	11
4	Excess pressure and electric fields in nonideal plasma hydrodynamics. <i>Physical Review E</i> , 2019, 99, 063207.	2.1	4
5	Ion friction at small values of the Coulomb logarithm. <i>Physical Review E</i> , 2019, 99, 053206.	2.1	10
6	A viscous quantum hydrodynamics model based on dynamic density functional theory. <i>Scientific Reports</i> , 2017, 7, 15352.	3.3	31
7	A DYNAMIC DENSITY FUNCTIONAL THEORY APPROACH TO DIFFUSION IN WHITE DWARFS AND NEUTRON STAR ENVELOPES. <i>Astrophysical Journal</i> , 2016, 829, 16.	4.5	11
8	A neutral strongly coupled laser-produced plasma by strong-field ionization in a gas jet. <i>AIP Conference Proceedings</i> , 2015, . .	0.4	1
9	Generalized hydrodynamics model for strongly coupled plasmas. <i>Physical Review E</i> , 2015, 92, 013107.	2.1	41
10	Using higher ionization states to increase Coulomb coupling in an ultracold neutral plasma. <i>Physical Review E</i> , 2015, 91, 033101.	2.1	17
11	Expansion of a plasma into vacuum with a bi-Maxwellian electron distribution function. <i>EPJ Web of Conferences</i> , 2013, 59, 17009.	0.3	5
12	Thin-foil expansion into a vacuum with a two-temperature electron distribution function. <i>Physical Review E</i> , 2012, 86, 026403.	2.1	18
13	Rarefaction shock in plasma with a bi-Maxwellian electron distribution function. <i>Physical Review E</i> , 2011, 84, 036402.	2.1	18
14	Energy dispersion in radiation pressure accelerated ion beams. <i>New Journal of Physics</i> , 2011, 13, 123003.	2.9	20
15	Amplification of transition-Cherenkov terahertz radiation of femtosecond filament in air. <i>Applied Physics Letters</i> , 2008, 93, 051108.	3.3	36