

Sedina Tsikata

List of Publications by Year in descending order

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34
papers

1,079
citations

471509

17
h-index

501196

28
g-index

34
all docs

34
docs citations

34
times ranked

625
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2022 Plasma Roadmap: low temperature plasma science and technology. Journal Physics D: Applied Physics, 2022, 55, 373001.	2.8	139
2	Hall thruster plasma fluctuations identified as the $E\tilde{A}$ -B electron drift instability: Modeling and fitting on experimental data. Physics of Plasmas, 2013, 20, .	1.9	97
3	Dispersion relations of electron density fluctuations in a Hall thruster plasma, observed by collective light scattering. Physics of Plasmas, 2009, 16, .	1.9	92
4	Physics of $E\tilde{A}$ -B discharges relevant to plasma propulsion and similar technologies. Physics of Plasmas, 2020, 27, .	1.9	89
5	Development and experimental characterization of a wall-less Hall thruster. Journal of Applied Physics, 2014, 116, .	2.5	73
6	Physics, simulation and diagnostics of Hall effect thrusters. Plasma Physics and Controlled Fusion, 2008, 50, 124041.	2.1	70
7	Model experiments for direct visualization of grain boundary deformation in nanocrystalline metals. Applied Physics Letters, 2003, 83, 1441-1443.	3.3	65
8	A compact new incoherent Thomson scattering diagnostic for low-temperature plasma studies. Plasma Sources Science and Technology, 2018, 27, 055002.	3.1	59
9	Modulated Electron Cyclotron Drift Instability in a High-Power Pulsed Magnetron Discharge. Physical Review Letters, 2015, 114, 185001.	7.8	53
10	Three-dimensional structure of electron density fluctuations in the Hall thruster plasma: $E\tilde{A}$ - $B\tilde{A}$ mode. Physics of Plasmas, 2010, 17, .	1.9	45
11	Cross-field electron diffusion due to the coupling of drift-driven microinstabilities. Physical Review E, 2020, 102, 023202.	2.1	40
12	The propagation of low-viscosity fingers into fluid-filled branching networks. Journal of Fluid Mechanics, 2006, 546, 285.	3.4	38
13	An axially propagating two-stream instability in the Hall thruster plasma. Physics of Plasmas, 2014, 21, .	1.9	29
14	Incoherent Thomson scattering measurements of electron properties in a conventional and magnetically-shielded Hall thruster. Plasma Sources Science and Technology, 2020, 29, 035015.	3.1	23
15	<i>Pseudo</i> -3D PIC modeling of drift-induced spatial inhomogeneities in planar magnetron plasmas. Physics of Plasmas, 2016, 23, .	1.9	20
16	Rotating spoke instabilities in a wall-less Hall thruster: experiments. Plasma Sources Science and Technology, 2019, 28, 054002.	3.1	19
17	A Novel Approach to \hat{I}^2 -Decay: PANDORA, a New Experimental Setup for Future In-Plasma Measurements. Universe, 2022, 8, 80.	2.5	19
18	Rotating spoke instabilities in a wall-less Hall thruster: simulations. Plasma Sources Science and Technology, 2019, 28, 044002.	3.1	17

#	ARTICLE	IF	CITATIONS
19	Collective Thomson scattering for studying plasma instabilities in electric thrusters. Journal of Instrumentation, 2013, 8, C10012-C10012.	1.2	13
20	Electron properties of an emissive cathode: analysis with incoherent thomson scattering, fluid simulations and Langmuir probe measurements. Journal Physics D: Applied Physics, 2020, 53, 415202.	2.8	12
21	Hall thruster microturbulence under conditions of modified electron wall emission. Physics of Plasmas, 2017, 24, .	1.9	11
22	Time-resolved electron properties of a HiPIMS argon discharge via incoherent Thomson scattering. Plasma Sources Science and Technology, 2019, 28, 03LT02.	3.1	9
23	Characterization of hollow cathode plasma turbulence using coherent Thomson scattering. Journal of Applied Physics, 2021, 130, .	2.5	9
24	Collective Light Scattering for the Study of Fluctuations in Magnetized Plasmas: The Hall Thruster Case Study. Contributions To Plasma Physics, 2011, 51, 119-125.	1.1	7
25	Development and characterization of a wall-less Hall thruster. , 2014, , .		7
26	Effects of multiply charged ions on microturbulence-driven electron transport in partially magnetized plasmas. Journal of Applied Physics, 2021, 130, .	2.5	6
27	Device convolution effects on the collective scattering signal of the $E \times B$ mode from Hall thruster experiments: 2D dispersion relation. Physics of Plasmas, 2012, 19, 082117.	1.9	5
28	Optimization of magnetic field topology and anode geometry for a wall-less Hall thruster. , 2015, , .		5
29	Self-organized standing waves generated by AC-driven electron cyclotron drift instabilities. Applied Physics Letters, 2019, 115, .	3.3	5
30	Discharge and plasma plume characterization of a 100A-class LaB6 hollow cathode. Journal of Applied Physics, 2021, 130, .	2.5	3
31	Azimuthal micro-instability inside a wall-less hall thruster. , 2015, , .		0
32	Three-Dimensional Coupling of Electron Cyclotron Drift Instability and Ion-Ion Two Stream Instability. , 2021, , .		0
33	Electron Property Anisotropy in Cross-Field Discharges. , 2020, , .		0
34	Cross-Field Anomalous Electron Transport Due to Multidimensional Plasma Instabilities. , 2020, , .		0