

# 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	A Novel Approach to $\hat{\Gamma}^2$ -Decay: PANDORA, a New Experimental Setup for Future In-Plasma Measurements. Universe, 2022, 8, 80.	2.5	19
2	The 2022 Plasma Roadmap: low temperature plasma science and technology. Journal Physics D: Applied Physics, 2022, 55, 373001.	2.8	139
3	Three-Dimensional Coupling of Electron Cyclotron Drift Instability and Ion-Ion Two Stream Instability. , 2021, , .		0
4	Discharge and plasma plume characterization of a 100A-class LaB6 hollow cathode. Journal of Applied Physics, 2021, 130, .	2.5	3
5	Effects of multiply charged ions on microturbulence-driven electron transport in partially magnetized plasmas. Journal of Applied Physics, 2021, 130, .	2.5	6
6	Characterization of hollow cathode plasma turbulence using coherent Thomson scattering. Journal of Applied Physics, 2021, 130, .	2.5	9
7	Cross-field electron diffusion due to the coupling of drift-driven microinstabilities. Physical Review E, 2020, 102, 023202.	2.1	40
8	Physics of E $\times$ B discharges relevant to plasma propulsion and similar technologies. Physics of Plasmas, 2020, 27, .	1.9	89
9	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
10	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
11	Electron Property Anisotropy in Cross-Field Discharges. , 2020, , .		0
12	Cross-Field Anomalous Electron Transport Due to Multidimensional Plasma Instabilities. , 2020, , .		0
13	Time-resolved electron properties of a HiPIMS argon discharge via incoherent Thomson scattering. Plasma Sources Science and Technology, 2019, 28, 03LT02.	3.1	9
14	Rotating spoke instabilities in a wall-less Hall thruster: simulations. Plasma Sources Science and Technology, 2019, 28, 044002.	3.1	17
15	Rotating spoke instabilities in a wall-less Hall thruster: experiments. Plasma Sources Science and Technology, 2019, 28, 054002.	3.1	19
16	Self-organized standing waves generated by AC-driven electron cyclotron drift instabilities. Applied Physics Letters, 2019, 115, .	3.3	5
17	A compact new incoherent Thomson scattering diagnostic for low-temperature plasma studies. Plasma Sources Science and Technology, 2018, 27, 055002.	3.1	59
18	Hall thruster microturbulence under conditions of modified electron wall emission. Physics of Plasmas, 2017, 24, .	1.9	11

#	ARTICLE	IF	CITATIONS
19	<i>Pseudo</i> -3D PIC modeling of drift-induced spatial inhomogeneities in planar magnetron plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	20
20	Azimuthal micro-instability inside a wall-less hall thruster. , 2015, , .		0
21	Optimization of magnetic field topology and anode geometry for a wall-less Hall thruster. , 2015, , .		5
22	Modulated Electron Cyclotron Drift Instability in a High-Power Pulsed Magnetron Discharge. <i>Physical Review Letters</i> , 2015, 114, 185001.	7.8	53
23	Development and experimental characterization of a wall-less Hall thruster. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	73
24	Development and characterization of a wall-less Hall thruster. , 2014, , .		7
25	An axially propagating two-stream instability in the Hall thruster plasma. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	29
26	Hall thruster plasma fluctuations identified as the $E\tilde{A}-B$ electron drift instability: Modeling and fitting on experimental data. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	97
27	Collective Thomson scattering for studying plasma instabilities in electric thrusters. <i>Journal of Instrumentation</i> , 2013, 8, C10012-C10012.	1.2	13
28	Device convolution effects on the collective scattering signal of the $E\tilde{A}-\hat{a}B$ mode from Hall thruster experiments: 2D dispersion relation. <i>Physics of Plasmas</i> , 2012, 19, 082117.	1.9	5
29	Collective Light Scattering for the Study of Fluctuations in Magnetized Plasmas: The Hall Thruster Case Study. <i>Contributions To Plasma Physics</i> , 2011, 51, 119-125.	1.1	7
30	Three-dimensional structure of electron density fluctuations in the Hall thruster plasma: $E\tilde{A}-B\tilde{A}^-$ mode. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	45
31	Dispersion relations of electron density fluctuations in a Hall thruster plasma, observed by collective light scattering. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	92
32	Physics, simulation and diagnostics of Hall effect thrusters. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 124041.	2.1	70
33	The propagation of low-viscosity fingers into fluid-filled branching networks. <i>Journal of Fluid Mechanics</i> , 2006, 546, 285.	3.4	38
34	Model experiments for direct visualization of grain boundary deformation in nanocrystalline metals. <i>Applied Physics Letters</i> , 2003, 83, 1441-1443.	3.3	65