

Kareem A Sorathia

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5272853/publications.pdf>

Version: 2024-02-01

36
papers

906
citations

471509

17
h-index

477307

29
g-index

47
all docs

47
docs citations

47
times ranked

1015
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermospheric Density Perturbations Produced by Traveling Atmospheric Disturbances During August 2005 Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	28
2	High-resolution Simulations of the Inner Heliosphere in Search of the Kelvinâ€Helmholtz Waves. <i>Astrophysical Journal</i> , 2022, 925, 181.	4.5	0
3	Cross-scale energy cascade powered by magnetospheric convection. <i>Scientific Reports</i> , 2022, 12, 4446.	3.3	6
4	Oxygen Ion Escape at Venus Associated With Threeâ€Dimensional Kelvinâ€Helmholtz Instability. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	7
5	Local Mapping of Polar Ionospheric Electrodynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	5
6	Azimuthal averagingâ€reconstruction filtering techniques for finite-difference general circulation models in spherical geometry. <i>Geoscientific Model Development</i> , 2021, 14, 859-873.	3.6	22
7	MMS Observations of the Multiscale Wave Structures and Parallel Electron Heating in the Vicinity of the Southern Exterior Cusp. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2019JA027698.	2.4	15
8	How Jupiterâ€™s unusual magnetospheric topology structures its aurora. <i>Science Advances</i> , 2021, 7, .	10.3	31
9	Electrojet Estimates From Mesospheric Magnetic Field Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028644.	2.4	9
10	Magnetospheric Multiscale Observations of the Source Region of Energetic Electron Microinjections Along the Duskside, Highâ€Latitude Magnetopause Boundary Layer. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092466.	4.0	9
11	Investigating the Link Between Outer Radiation Belt Losses and Energetic Electron Escape at the Magnetopause: A Case Study Using Multiâ€Mission Observations and Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029261.	2.4	2
12	Incorporating Inner Magnetosphere Current-driven Electron Acceleration in Numerical Simulations of Exoplanet Radio Emission. <i>Astrophysical Journal</i> , 2021, 914, 60.	4.5	3
13	Modeling Kelvinâ€Helmholtz Instability at the Highâ€Latitude Boundary Layer in a Global Magnetosphere Simulation. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094002.	4.0	12
14	Can Earth's Magnetotail Plasma Sheet Produce a Source of Relativistic Electrons for the Radiation Belts?. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095495.	4.0	11
15	The Role of Mesoscale Plasma Sheet Dynamics in Ring Current Formation. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	10
16	MHDâ€Test Particles Simulations of Moderate CME and CIRâ€Driven Geomagnetic Storms at Solar Minimum. <i>Space Weather</i> , 2021, 19, e2021SW002882.	3.7	6
17	Global Effects of a Polar Solar Eclipse on the Coupled Magnetosphereâ€Ionosphere System. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	10
18	The Role of Diffuse Electron Precipitation in the Formation of Subauroral Polarization Streams. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	2.4	19

#	ARTICLE	IF	CITATIONS
19	The Structure of the Cusp Diamagnetic Cavity and Test Particle Energization in the GAMERA Global MHD Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	2.4	2
20	Ballooningâ€Interchange Instability in the Nearâ€Earth Plasma Sheet and Auroral Beads: Global Magnetospheric Modeling at the Limit of the MHD Approximation. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088227.	4.0	59
21	Conservative averaging-reconstruction techniques (Ring Average) for 3-D finite-volume MHD solvers with axis singularity. <i>Journal of Computational Physics</i> , 2019, 376, 276-294.	3.8	17
22	Solar Wind Ion Entry Into the Magnetosphere During Northward IMF. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5461-5481.	2.4	34
23	GAMERA: A Three-dimensional Finite-volume MHD Solver for Non-orthogonal Curvilinear Geometries. <i>Astrophysical Journal, Supplement Series</i> , 2019, 244, 20.	7.7	71
24	Contribution of Bursty Bulk Flows to the Global Dipolarization of the Magnetotail During an Isolated Substorm. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8647-8668.	2.4	58
25	Kinetic Properties of Mesoscale Plasma Injections. , 2019, , .		1
26	Asymmetric Kelvinâ€Helmholtz Instability at Jupiter's Magnetopause Boundary: Implications for Corotationâ€Dominated Systems. <i>Geophysical Research Letters</i> , 2018, 45, 56-63.	4.0	34
27	Ion Trapping and Acceleration at Dipolarization Fronts: Highâ€Resolution MHD and Testâ€Particle Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5580-5589.	2.4	48
28	Global Radiation Belt Modeling: Combined MHD, Ring Current and Test-Particle Simulations. , 2018, , .		0
29	Modeling the Depletion and Recovery of the Outer Radiation Belt During a Geomagnetic Storm: Combined MHD and Test Particle Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5590-5609.	2.4	47
30	Energetic particle loss through the magnetopause: A combined global MHD and testâ€particle study. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9329-9343.	2.4	38
31	Alignment physics of disks warped by Lenseâ€Thirring precession. <i>Classical and Quantum Gravity</i> , 2014, 31, 244004.	4.0	1
32	MAGNETOHYDRODYNAMIC SIMULATION OF A DISK SUBJECTED TO LENSE-THIRRING PRECESSION. <i>Astrophysical Journal</i> , 2013, 777, 21.	4.5	42
33	RELAXATION OF WARPED DISKS: THE CASE OF PURE HYDRODYNAMICS. <i>Astrophysical Journal</i> , 2013, 768, 133.	4.5	31
34	GLOBAL SIMULATIONS OF ACCRETION DISKS. I. CONVERGENCE AND COMPARISONS WITH LOCAL MODELS. <i>Astrophysical Journal</i> , 2012, 749, 189.	4.5	113
35	LOW-FREQUENCY OSCILLATIONS IN GLOBAL SIMULATIONS OF BLACK HOLE ACCRETION. <i>Astrophysical Journal</i> , 2011, 736, 107.	4.5	57
36	CONNECTIONS BETWEEN LOCAL AND GLOBAL TURBULENCE IN ACCRETION DISKS. <i>Astrophysical Journal</i> , 2010, 712, 1241-1247.	4.5	44