Kareem A Sorathia

List of Publications by Year
in descending order

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36	906	471509	477307
papers	citations	17	29
		h-index	g-index

47	47	47	1015
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	GLOBAL SIMULATIONS OF ACCRETION DISKS. I. CONVERGENCE AND COMPARISONS WITH LOCAL MODELS. Astrophysical Journal, 2012, 749, 189.	4.5	113
2	GAMERA: A Three-dimensional Finite-volume MHD Solver for Non-orthogonal Curvilinear Geometries. Astrophysical Journal, Supplement Series, 2019, 244, 20.	7.7	71
3	Ballooningâ€Interchange Instability in the Nearâ€Earth Plasma Sheet and Auroral Beads: Global Magnetospheric Modeling at the Limit of the MHD Approximation. Geophysical Research Letters, 2020, 47, e2020GL088227.	4.0	59
4	Contribution of Bursty Bulk Flows to the Global Dipolarization of the Magnetotail During an Isolated Substorm. Journal of Geophysical Research: Space Physics, 2019, 124, 8647-8668.	2.4	58
5	LOW-FREQUENCY OSCILLATIONS IN GLOBAL SIMULATIONS OF BLACK HOLE ACCRETION. Astrophysical Journal, 2011, 736, 107.	4.5	57
6	Ion Trapping and Acceleration at Dipolarization Fronts: Highâ€Resolution MHD and Testâ€Particle Simulations. Journal of Geophysical Research: Space Physics, 2018, 123, 5580-5589.	2.4	48
7	Modeling the Depletion and Recovery of the Outer Radiation Belt During a Geomagnetic Storm: Combined MHD and Test Particle Simulations. Journal of Geophysical Research: Space Physics, 2018, 123, 5590-5609.	2.4	47
8	CONNECTIONS BETWEEN LOCAL AND GLOBAL TURBULENCE IN ACCRETION DISKS. Astrophysical Journal, 2010, 712, 1241-1247.	4.5	44
9	MAGNETOHYDRODYNAMIC SIMULATION OF A DISK SUBJECTED TO LENSE-THIRRING PRECESSION. Astrophysical Journal, 2013, 777, 21.	4.5	42
10	Energetic particle loss through the magnetopause: A combined global MHD and testâ€particle study. Journal of Geophysical Research: Space Physics, 2017, 122, 9329-9343.	2.4	38
11	Asymmetric Kelvinâ€Helmholtz Instability at Jupiter's Magnetopause Boundary: Implications for Corotationâ€Dominated Systems. Geophysical Research Letters, 2018, 45, 56-63.	4.0	34
12	Solar Wind Ion Entry Into the Magnetosphere During Northward IMF. Journal of Geophysical Research: Space Physics, 2019, 124, 5461-5481.	2.4	34
13	RELAXATION OF WARPED DISKS: THE CASE OF PURE HYDRODYNAMICS. Astrophysical Journal, 2013, 768, 133.	4.5	31
14	How Jupiterâ€™s unusual magnetospheric topology structures its aurora. Science Advances, 2021, 7, .	10.3	31
15	Thermospheric Density Perturbations Produced by Traveling Atmospheric Disturbances During August 2005 Storm. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	28
16	Azimuthal averagingâ€“reconstruction filtering techniques for finite-difference general circulation models in spherical geometry. Geoscientific Model Development, 2021, 14, 859-873.	3.6	22
17	The Role of Diffuse Electron Precipitation in the Formation of Subauroral Polarization Streams. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	19
18	Conservative averaging-reconstruction techniques (Ring Average) for 3-D finite-volume MHD solvers with axis singularity. Journal of Computational Physics, 2019, 376, 276-294.	3.8	17

#	Article	IF	Citations
19	MMS Observations of the Multiscale Wave Structures and Parallel Electron Heating in the Vicinity of the Southern Exterior Cusp. Journal of Geophysical Research: Space Physics, 2021, 126, e2019JA027698.	2.4	15
20	Modeling Kelvinâ€Helmholtz Instability at the Highâ€Latitude Boundary Layer in a Global Magnetosphere Simulation. Geophysical Research Letters, 2021, 48, e2021GL094002.	4.0	12
21	Can Earth's Magnetotail Plasma Sheet Produce a Source of Relativistic Electrons for the Radiation Belts?. Geophysical Research Letters, 2021, 48, e2021GL095495.	4.0	11
22	The Role of Mesoscale Plasma Sheet Dynamics in Ring Current Formation. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	10
23	Global Effects of a Polar Solar Eclipse on the Coupled Magnetosphereâ€Ionosphere System. Geophysical Research Letters, 2021, 48, .	4.0	10
24	Electrojet Estimates From Mesospheric Magnetic Field Measurements. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028644.	2.4	9
25	Magnetospheric Multiscale Observations of the Source Region of Energetic Electron Microinjections Along the Duskside, Highâ€Latitude Magnetopause Boundary Layer. Geophysical Research Letters, 2021, 48, e2021GL092466.	4.0	9
26	Oxygen Ion Escape at Venus Associated With Threeâ€Dimensional Kelvinâ€Helmholtz Instability. Geophysical Research Letters, 2022, 49, .	4.0	7
27	MHDâ€Test Particles Simulations of Moderate CME and CIRâ€Driven Geomagnetic Storms at Solar Minimum. Space Weather, 2021, 19, e2021SW002882.	3.7	6
28	Cross-scale energy cascade powered by magnetospheric convection. Scientific Reports, 2022, 12, 4446.	3.3	6
29	Local Mapping of Polar Ionospheric Electrodynamics. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	5
30	Incorporating Inner Magnetosphere Current-driven Electron Acceleration in Numerical Simulations of Exoplanet Radio Emission. Astrophysical Journal, 2021, 914, 60.	4.5	3
31	Investigating the Link Between Outer Radiation Belt Losses and Energetic Electron Escape at the Magnetopause: A Case Study Using Multiâ€Mission Observations and Simulations. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029261.	2.4	2
32	The Structure of the Cusp Diamagnetic Cavity and Test Particle Energization in the GAMERA Global MHD Simulation. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	2
33	Alignment physics of disks warped by Lenseâ€“Thirring precession. Classical and Quantum Gravity, 2014, 31, 244004.	4.0	1
34	Kinetic Properties of Mesoscale Plasma Injections. , 2019, , .		1
35	Global Radiation Belt Modeling: Combined MHD, Ring Current and Test-Particle Simulations. , 2018, , .		0
36	High-resolution Simulations of the Inner Heliosphere in Search of the Kelvinâ€“Helmholtz Waves. Astrophysical Journal, 2022, 925, 181.	4.5	0