

Mitsuo Oka

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

3,280
citations

201385

27
h-index

161609

54
g-index

61
all docs

61
docs citations

61
times ranked

2279
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016, 352, aaf2939.	6.0	545
2	The Space Physics Environment Data Analysis System (SPEDAS). <i>Space Science Reviews</i> , 2019, 215, 9.	3.7	332
3	Electron magnetic reconnection without ion coupling in Earth's turbulent magnetosheath. <i>Nature</i> , 2018, 557, 202-206.	13.7	263
4	ELECTRON ACCELERATION BY MULTI-ISLAND COALESCENCE. <i>Astrophysical Journal</i> , 2010, 714, 915-926.	1.6	233
5	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , 2018, 362, 1391-1395.	6.0	221
6	Synopsis of the interstellar He parameters from combined neutral gas, pickup ion and UV scattering observations and related consequences. <i>Astronomy and Astrophysics</i> , 2004, 426, 897-907.	2.1	178
7	Observations of the helium focusing cone with pickup ions. <i>Astronomy and Astrophysics</i> , 2004, 426, 845-854.	2.1	110
8	MMS observations of electron-scale filamentary currents in the reconnection exhaust and near the X line. <i>Geophysical Research Letters</i> , 2016, 43, 6060-6069.	1.5	99
9	WEIBEL INSTABILITY AND ASSOCIATED STRONG FIELDS IN A FULLY THREE-DIMENSIONAL SIMULATION OF A RELATIVISTIC SHOCK. <i>Astrophysical Journal</i> , 2009, 698, L10-L13.	1.6	92
10	KAPPA DISTRIBUTION MODEL FOR HARD X-RAY CORONAL SOURCES OF SOLAR FLARES. <i>Astrophysical Journal</i> , 2013, 764, 6.	1.6	85
11	MMS observations of large guide field symmetric reconnection between colliding reconnection jets at the center of a magnetic flux rope at the magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 5536-5544.	1.5	84
12	Island surfing mechanism of electron acceleration during magnetic reconnection. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	70
13	ELECTRON ENERGY PARTITION IN THE ABOVE-THE-LOOPTOP SOLAR HARD X-RAY SOURCES. <i>Astrophysical Journal</i> , 2015, 799, 129.	1.6	66
14	Nonequilibrium Processes in the Solar Corona, Transition Region, Flares, and Solar Wind (Invited) <i>Journal of Geophysical Research</i> , 2010, 115, .	1.0	60
15	Whistler critical Mach number and electron acceleration at the bow shock: Geotail observation. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	58
16	Electron Power-Law Spectra in Solar and Space Plasmas. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	53
17	Electron Scattering by High-frequency Whistler Waves at Earth's Bow Shock. <i>Astrophysical Journal Letters</i> , 2017, 842, L11.	3.0	46
18	Multiscale whistler waves within Earth's perpendicular bow shock. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	45

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19	Observational Evidence for Stochastic Shock Drift Acceleration of Electrons at the Earth's Bow Shock. <i>Physical Review Letters</i> , 2020, 124, 065101.	2.9	42
20	Reconnection With Magnetic Flux Pileup at the Interface of Converging Jets at the Magnetopause. <i>Geophysical Research Letters</i> , 2019, 46, 1937-1946.	1.5	36
21	Magnetic Reconnection at a Thin Current Sheet Separating Two Interlaced Flux Tubes at the Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1779-1793.	0.8	35
22	Field-aligned beam observations at the quasi-perpendicular bow shock: Generation and shock angle dependence. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	34
23	Pre-flight Calibration and Near-Earth Commissioning Results of the Mercury Plasma Particle Experiment (MPPE) Onboard MMO (Mio). <i>Space Science Reviews</i> , 2021, 217, 1.	3.7	32
24	Magnetic Reconnection by a Self-Retreating X-Line. <i>Physical Review Letters</i> , 2008, 101, 205004.	2.9	30
25	Magnetic reconnection X-line retreat associated with dipolarization of the Earth's magnetosphere. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	30
26	Decay of mesoscale flux transfer events during quasi-continuous spatially extended reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 4755-4762.	1.5	28
27	Hard X-Ray Emission from Partially Occulted Solar Flares: RHESSI Observations in Two Solar Cycles. <i>Astrophysical Journal</i> , 2017, 835, 124.	1.6	28
28	Ion Kinetics in a Hot Flow Anomaly: MMS Observations. <i>Geophysical Research Letters</i> , 2018, 45, 11,520.	1.5	28
29	Electron Scattering by Low-frequency Whistler Waves at Earth's Bow Shock. <i>Astrophysical Journal</i> , 2019, 886, 53.	1.6	28
30	In situ evidence of electron energization in the electron diffusion region of magnetotail reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1955-1968.	0.8	26
31	Effect of inflow density on ion diffusion region of magnetic reconnection: Particle-in-cell simulations. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	25
32	Evolution of the anemone AR NOAA 10798 and the related geoeffective flares and CMEs. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	22
33	Particle Acceleration in Mercury's Magnetosphere. <i>Space Science Reviews</i> , 2007, 132, 593-609.	3.7	20
34	Torus distribution of interstellar helium pickup ions: Direct observation. <i>Geophysical Research Letters</i> , 2002, 29, 54-1.	1.5	17
35	Radiation from relativistic shocks in turbulent magnetic fields. <i>Advances in Space Research</i> , 2011, 47, 1434-1440.	1.2	17
36	Cosmic-ray-mediated interplanetary shocks in 1994 and 2003. <i>Advances in Space Research</i> , 2006, 37, 1408-1412.	1.2	16

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37	MMS SITL Ground Loop: Automating the Burst Data Selection Process. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, 54.	1.1	16
38	Determination of shock parameters for the very fast interplanetary shock on 29 October 2003. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	14
39	Establishing the Context for Reconnection Diffusion Region Encounters and Strategies for the Capture and Transmission of Diffusion Region Burst Data by MMS. <i>Space Science Reviews</i> , 2016, 199, 631-650.	3.7	14
40	Acceleration of interstellar helium pickup ions at the Earth's bow shock: GEOTAIL observation. <i>Geophysical Research Letters</i> , 2002, 29, 33-1-33-4.	1.5	11
41	Disturbance of the Front Region of Magnetic Reconnection Outflow Jets due to the Lower-Hybrid Drift Instability. <i>Physical Review Letters</i> , 2019, 123, 235101.	2.9	11
42	Case Study of Solar Wind Suprathermal Electron Acceleration at the Earth's Bow Shock. <i>Astrophysical Journal Letters</i> , 2020, 889, L2.	3.0	10
43	A two-step scenario for both solar flares and magnetospheric substorms: Short duration energy storage. <i>Earth, Planets and Space</i> , 2009, 61, 555-559.	0.9	9
44	Non-thermal electrons at the Earth's bow shock: A "gradual" event. <i>Earth, Planets and Space</i> , 2009, 61, 603-606.	0.9	9
45	RADIATION FROM RELATIVISTIC SHOCKS WITH TURBULENT MAGNETIC FIELDS. <i>International Journal of Modern Physics D</i> , 2010, 19, 715-721.	0.9	9
46	A study of the changes of the near-Earth plasma sheet and lobe driven by multiple substorms: Comparison with a full particle simulation of reconnection. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	7
47	Electron energization and thermal to non-thermal energy partition during earth's magnetotail reconnection. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	7
48	Loop top nonthermal emission sources associated with an over-the-limb flare observed with NoRH and RHESSI. <i>Advances in Space Research</i> , 2007, 39, 1398-1401.	1.2	6
49	Energy Dissipation at the Termination Shock: 1D PIC Simulation. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	5
50	Shock Modification by Cosmic-Ray-Excited Turbulences. <i>Progress of Theoretical Physics Supplement</i> , 2007, 169, 146-149.	0.2	4
51	Unusual enhancement of ~30 MeV proton flux in an ICME sheath region. <i>Earth, Planets and Space</i> , 2021, 73, 31.	0.9	3
52	Spatial evolution of magnetic reconnection diffusion region structures with distance from the X-line. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	3
53	Micro-Structure of the Heliospheric Termination Shock. , 2009, , .		2
54	Thick escaping magnetospheric ion layer in magnetopause reconnection with MMS observations. <i>Geophysical Research Letters</i> , 2016, 43, 6028-6035.	1.5	1

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55	Quest for Waves Excited by Interstellar Helium Pickup Ions. COSPAR Colloquia Series, 2005, 16, 306-309.	0.2	0
56	Particle Acceleration in Mercury's Magnetosphere. Space Sciences Series of ISSI, 2008, , 411-427.	0.0	0
57	Establishing the Context for Reconnection Diffusion Region Encounters and Strategies for the Capture and Transmission of Diffusion Region Burst Data by MMS. , 2017, , 629-648.		0