

Shinji Saito

List of Publications by Year in descending order

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61
papers

1,616
citations

304743

22
h-index

302126

39
g-index

68
all docs

68
docs citations

68
times ranked

1278
citing authors

#	ARTICLE	IF	CITATIONS
1	Energetic electron precipitation associated with pulsating aurora: EISCAT and Van Allen Probe observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2754-2766.	2.4	133
2	Whistler turbulence: Particle-in-cell simulations. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	115
3	Cascade of whistler turbulence: Particle-in-cell simulations. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	97
4	Dispersion relation analysis of solar wind turbulence. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	94
5	Relation between fine structure of energy spectra for pulsating aurora electrons and frequency spectra of whistler mode chorus waves. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7728-7736.	2.4	73
6	Mesospheric ozone destruction by high-energy electron precipitation associated with pulsating aurora. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,852.	3.3	69
7	Relativistic Electron Microbursts as High-Energy Tail of Pulsating Aurora Electrons. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090360.	4.0	66
8	Relativistic electron microbursts associated with whistler chorus rising tone elements: GEMSIS-BW simulations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	62
9	Wavenumber spectrum of whistler turbulence: Particle-in-cell simulation. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	52
10	ON ELECTRON-SCALE WHISTLER TURBULENCE IN THE SOLAR WIND. <i>Astrophysical Journal Letters</i> , 2016, 827, L8.	8.3	49
11	Particle-In-Cell simulations of circularly polarised Alfvén wave phase mixing: A new mechanism for electron acceleration in collisionless plasmas. <i>Astronomy and Astrophysics</i> , 2005, 435, 1105-1113.	5.1	46
12	Outer radiation belt boundary location relative to the magnetopause: Implications for magnetopause shadowing. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	46
13	Whistler scattering of suprathermal electrons in the solar wind: Particle-in-cell simulations. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	42
14	Particle-in-cell simulations of Alfvén-cyclotron wave scattering: Proton velocity distributions. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	39
15	All whistlers are not created equally: Scattering of strahl electrons in the solar wind via particle-in-cell simulations. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	38
16	A split in the outer radiation belt by magnetopause shadowing: Test particle simulations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	37
17	Penetration of MeV electrons into the mesosphere accompanying pulsating aurorae. <i>Scientific Reports</i> , 2021, 11, 13724.	3.3	37
18	Broadening of solar wind strahl pitch angles by the electron/electron instability: Particle-in-cell simulations. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	36

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19	Ion acceleration, magnetic field line reconnection, and multiple current filament coalescence of a relativistic electron beam in a plasma. <i>Physics of Plasmas</i> , 2002, 9, 2959-2970.	1.9	33
20	WHISTLER TURBULENCE WAVEVECTOR ANISOTROPIES: PARTICLE-IN-CELL SIMULATIONS. <i>Astrophysical Journal</i> , 2010, 716, 1332-1335.	4.5	28
21	Simulating the emission of electromagnetic waves in the terahertz range by relativistic electron beams. <i>Astronomy and Astrophysics</i> , 2006, 457, 313-318.	5.1	27
22	Phase mixing of shear Alfvén waves as a new mechanism for electron acceleration in collisionless, kinetic plasmas. <i>New Journal of Physics</i> , 2005, 7, 79-79.	2.9	26
23	Relativistic electron flux forecast at geostationary orbit using Kalman filter based on multivariate autoregressive model. <i>Space Weather</i> , 2013, 11, 79-89.	3.7	22
24	Particle acceleration during the counterstreaming instability in magnetized pair plasmas. <i>Physics of Plasmas</i> , 2004, 11, 859-865.	1.9	21
25	STRAHL FORMATION IN THE SOLAR WIND ELECTRONS VIA WHISTLER INSTABILITY. <i>Astrophysical Journal Letters</i> , 2015, 811, L7.	8.3	21
26	Energetic electron precipitation and auroral morphology at the substorm recovery phase. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6508-6527.	2.4	20
27	Beta dependence of electron heating in decaying whistler turbulence: Particle-in-cell simulations. <i>Physics of Plasmas</i> , 2012, 19, 012312.	1.9	19
28	Simulation of Solar Type III Radio Bursts from a Magnetic Reconnection Region. <i>Astrophysical Journal</i> , 2005, 622, L157-L160.	4.5	18
29	Perpendicular ion acceleration in whistler turbulence. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	16
30	Remote Detection of Drift Resonance Between Energetic Electrons and Ultralow Frequency Waves: Multisatellite Coordinated Observation by Arase and Van Allen Probes. <i>Geophysical Research Letters</i> , 2019, 46, 11642-11651.	4.0	16
31	The Emission of Electromagnetic Waves during the Coalescence of Two Parallel Current Loops in Solar Flares. <i>Astrophysical Journal</i> , 2004, 616, L179-L182.	4.5	14
32	Simultaneous Pulsating Aurora and Microburst Observations With Ground-Based Fast Auroral Imagers and CubeSat FIREBIRD. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094494.	4.0	14
33	Self-consistent kinetic numerical simulation model for ring current particles in the Earth's inner magnetosphere. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	13
34	The Emission of Electromagnetic Waves from the Counterstreaming Region in Magnetized Pair Plasmas. <i>Astrophysical Journal</i> , 2004, 602, L41-L44.	4.5	11
35	Theory, modeling, and integrated studies in the Arase (ERG) project. <i>Earth, Planets and Space</i> , 2018, 70, .	2.5	11
36	A Case for Electron-Astrophysics. <i>Experimental Astronomy</i> , 0, , 1.	3.7	11

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37	Formation of Butterfly Pitch Angle Distributions of Relativistic Electrons in the Outer Radiation Belt With a Monochromatic Pc5 Wave. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4679-4691.	2.4	10
38	PSTEP: project for solarâ€ terrestrial environment prediction. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	10
39	Particle acceleration during the coalescence of two magnetic loops in electron-ion plasmas. <i>Physics of Plasmas</i> , 2004, 11, 5547-5556.	1.9	9
40	Rapid increase in relativistic electron flux controlled by nonlinear phase trapping of whistler chorus elements. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6573-6589.	2.4	9
41	A Systematic Study in Characteristics of Lower Band Risingâ€ Tone Chorus Elements. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9003-9016.	2.4	9
42	Surfatron Acceleration of Ions by Fast Magnetosonic Shocks Generated during Two Current Loops' Coalescence. <i>Astrophysical Journal</i> , 2004, 604, L133-L136.	4.5	8
43	Particle simulation of plasma heating by a large-amplitude shear AlfvÃ©n wave through its transverse modulation in collisionless plasmas. <i>New Journal of Physics</i> , 2005, 7, 233-233.	2.9	8
44	Generation of intermittent ion acoustic waves in whistler-mode turbulence. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	8
45	Nonlinear damping of a finite amplitude whistler wave due to modified two stream instability. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	7
46	Simulation on solar type II radio bursts associated with corona mass ejections. <i>Astronomy and Astrophysics</i> , 2005, 442, 687-692.	5.1	7
47	Simulated enhancement of solar type II radio bursts during the collision of two shocks associated with coronal mass ejections. <i>Astronomy and Astrophysics</i> , 2006, 454, 983-988.	5.1	7
48	A Trigger Mechanism of Magnetic Reconnection and Particle Acceleration during Thinning of the Current Sheet. <i>Astrophysical Journal</i> , 2006, 652, 793-799.	4.5	6
49	A primitive kinetic-fluid model for quasi-parallel propagating magnetohydrodynamic waves. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	6
50	ELECTRON ACCELERATION DURING THE DECAY OF NONLINEAR WHISTLER WAVES IN LOW-BETA ELECTRON-ION PLASMA. <i>Astrophysical Journal</i> , 2014, 794, 63.	4.5	6
51	Dataâ€ Driven Simulation of Rapid Flux Enhancement of Energetic Electrons With an Upperâ€ Band Whistler Burst. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028979.	2.4	6
52	Strong Proton Acceleration during Successive Coalescence of Filament Currents in Relativistic Electron Beam System. <i>Journal of the Physical Society of Japan</i> , 2002, 71, 1931-1938.	1.6	5
53	SUPPRESSION OF REFLECTED ELECTRONS BY KINETIC ALFVÃ©N TURBULENCE IN A QUASI-PERPENDICULAR SHOCK: PARTICLE-IN-CELL SIMULATIONS. <i>Astrophysical Journal</i> , 2011, 736, 35.	4.5	5
54	Rapid decay of nonlinear whistler waves in two dimensions: Full particle simulation. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	4

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55	Perpendicular scattering for electron beams by the electron/electron instability in solar electron bursts. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	2
56	Magnetosonic/whistler mode turbulence influences on ion dynamics. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	2
57	Decay of nonlinear whistler mode waves: 1D versus 2D. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	2
58	Rocket Observation of Sub-relativistic Electrons in the Quiet Dayside Auroral Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028633.	2.4	2
59	Electron heating by large-amplitude shear Alfvén waves in the upper chromosphere with a force-free magnetic configuration. <i>Astronomy and Astrophysics</i> , 2006, 452, 597-601.	5.1	2
60	Electromagnetic wave emission during collision between a current sheet and a fast magnetosonic shock associated with coronal mass ejections. <i>Astronomy and Astrophysics</i> , 2006, 455, 1099-1103.	5.1	2
61	Butterfly Distribution of Relativistic Electrons Driven by Parallel Propagating Lower Band Whistler Chorus Waves. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	1