# Shinji Saito

List of Publications by Year
in descending order

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Version: 2024-02-01

| 61 | 1,616 | 304743 | 302126 |
|---|---|---|---|
| papers | citations | 22 h-index | 39 g-index |

| 68 | 68 | 68 | 1278 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Butterfly Distribution of Relativistic Electrons Driven by Parallel Propagating Lower Band Whistler Chorus Waves. Geophysical Research Letters, 2022, 49, . | 4.0 | 1 |
| 2 | Dataâ€Driven Simulation of Rapid Flux Enhancement of Energetic Electrons With an Upperâ€Band Whistler Burst. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028979. | 2.4 | 6 |
| 3 | Rocket Observation of Subâ€Relativistic Electrons in the Quiet Dayside Auroral Ionosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028633. | 2.4 | 2 |
| 4 | Penetration of MeV electrons into the mesosphere accompanying pulsating aurorae. Scientific Reports, 2021, 11, 13724. | 3.3 | 37 |
| 5 | PSTEP: project for solarâ€“terrestrial environment prediction. Earth, Planets and Space, 2021, 73, . | 2.5 | 10 |
| 6 | Simultaneous Pulsating Aurora and Microburst Observations With Groundâ€Based Fast Auroral Imagers and CubeSat FIREBIRDâ€II. Geophysical Research Letters, 2021, 48, e2021GL094494. | 4.0 | 14 |
| 7 | Relativistic Electron Microbursts as Highâ€Energy Tail of Pulsating Aurora Electrons. Geophysical Research Letters, 2020, 47, e2020GL090360. | 4.0 | 66 |
| 8 | Remote Detection of Drift Resonance Between Energetic Electrons and Ultralow Frequency Waves: Multisatellite Coordinated Observation by Arase and Van Allen Probes. Geophysical Research Letters, 2019, 46, 11642-11651. | 4.0 | 16 |
| 9 | A Systematic Study in Characteristics of Lower Band Risingâ€Tone Chorus Elements. Journal of Geophysical Research: Space Physics, 2019, 124, 9003-9016. | 2.4 | 9 |
| 10 | Formation of Butterfly Pitch Angle Distributions of Relativistic Electrons in the Outer Radiation Belt With a Monochromatic Pc5 Wave. Journal of Geophysical Research: Space Physics, 2018, 123, 4679-4691. | 2.4 | 10 |
| 11 | Magnetosonic/whistler mode turbulence influences on ion dynamics. Physics of Plasmas, 2018, 25, . | 1.9 | 2 |
| 12 | Decay of nonlinear whistler mode waves: 1D versus 2D. Physics of Plasmas, 2018, 25, . | 1.9 | 2 |
| 13 | Theory, modeling, and integrated studies in the Arase (ERG) project. Earth, Planets and Space, 2018, 70, . | 2.5 | 11 |
| 14 | Rapid decay of nonlinear whistler waves in two dimensions: Full particle simulation. Physics of Plasmas, 2017, 24, . | 1.9 | 4 |
| 15 | Energetic electron precipitation and auroral morphology at the substorm recovery phase. Journal of Geophysical Research: Space Physics, 2017, 122, 6508-6527. | 2.4 | 20 |
| 16 | Generation of intermittent ion acoustic waves in whistler-mode turbulence. Physics of Plasmas, 2017, 24, . | 1.9 | 8 |
| 17 | Rapid increase in relativistic electron flux controlled by nonlinear phase trapping of whistler chorus elements. Journal of Geophysical Research: Space Physics, 2016, 121, 6573-6589. | 2.4 | 9 |
| 18 | Mesospheric ozone destruction by highâ€energy electron precipitation associated with pulsating aurora. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,852. | 3.3 | 69 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | ON ELECTRON-SCALE WHISTLER TURBULENCE IN THE SOLAR WIND. Astrophysical Journal Letters, 2016, 827, L8. | 8.3 | 49 |
| 20 | STRAHL FORMATION IN THE SOLAR WIND ELECTRONS VIA WHISTLER INSTABILITY. Astrophysical Journal Letters, 2015, 811, L7. | 8.3 | 21 |
| 21 | Nonlinear damping of a finite amplitude whistler wave due to modified two stream instability. Physics of Plasmas, 2015, 22, . | 1.9 | 7 |
| 22 | Relation between fine structure of energy spectra for pulsating aurora electrons and frequency spectra of whistler mode chorus waves. Journal of Geophysical Research: Space Physics, 2015, 120, 7728-7736. | 2.4 | 73 |
| 23 | Energetic electron precipitation associated with pulsating aurora: EISCAT and Van Allen Probe observations. Journal of Geophysical Research: Space Physics, 2015, 120, 2754-2766. | 2.4 | 133 |
| 24 | ELECTRON ACCELERATION DURING THE DECAY OF NONLINEAR WHISTLER WAVES IN LOW-BETA ELECTRON-ION PLASMA. Astrophysical Journal, 2014, 794, 63. | 4.5 | 6 |
| 25 | Perpendicular ion acceleration in whistler turbulence. Physics of Plasmas, 2014, 21, . | 1.9 | 16 |
| 26 | Relativistic electron flux forecast at geostationary orbit using Kalman filter based on multivariate autoregressive model. Space Weather, 2013, 11, 79-89. | 3.7 | 22 |
| 27 | A primitive kinetic-fluid model for quasi-parallel propagating magnetohydrodynamic waves. Physics of Plasmas, 2013, 20, . | 1.9 | 6 |
| 28 | Beta dependence of electron heating in decaying whistler turbulence: Particle-in-cell simulations. Physics of Plasmas, 2012, 19, 012312. | 1.9 | 19 |
| 29 | Relativistic electron microbursts associated with whistler chorus rising tone elements: GEMSISâ€RBW simulations. Journal of Geophysical Research, 2012, 117, . | 3.3 | 62 |
| 30 | Dispersion relation analysis of solar wind turbulence. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 94 |
| 31 | Self-consistent kinetic numerical simulation model for ring current particles in the Earth's inner magnetosphere. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 13 |
| 32 | Outer radiation belt boundary location relative to the magnetopause: Implications for magnetopause shadowing. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 46 |
| 33 | SUPPRESSION OF REFLECTED ELECTRONS BY KINETIC ALFVÃ‰N TURBULENCE IN A QUASI-PERPENDICULAR SHOCK: PARTICLE-IN-CELL SIMULATIONS. Astrophysical Journal, 2011, 736, 35. | 4.5 | 5 |
| 34 | WHISTLER TURBULENCE WAVEVECTOR ANISOTROPIES: PARTICLE-IN-CELL SIMULATIONS. Astrophysical Journal, 2010, 716, 1332-1335. | 4.5 | 28 |
| 35 | Wavenumber spectrum of whistler turbulence: Particle-in-cell simulation. Physics of Plasmas, 2010, 17, . | 1.9 | 52 |
| 36 | A split in the outer radiation belt by magnetopause shadowing: Test particle simulations. Journal of Geophysical Research, 2010, 115, . | 3.3 | 37 |

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|---|---|---|---|
| 37 | Cascade of whistler turbulence: Particleâ€inâ€cell simulations. Geophysical Research Letters, 2008, 35, . | 4.0 | 97 |
| 38 | Perpendicular scattering for electron beams by the electron/electron instability in solar electron bursts. Journal of Geophysical Research, 2008, 113, . | 3.3 | 2 |
| 39 | Whistler turbulence: Particle-in-cell simulations. Physics of Plasmas, 2008, 15, . | 1.9 | 115 |
| 40 | All whistlers are not created equally: Scattering of strahl electrons in the solar wind via particle-in-cell simulations. Geophysical Research Letters, 2007, 34, . | 4.0 | 38 |
| 41 | Whistler scattering of suprathermal electrons in the solar wind: Particle-in-cell simulations. Journal of Geophysical Research, 2007, 112, n/a-n/a. | 3.3 | 42 |
| 42 | Broadening of solar wind strahl pitchâ€angles by the electron/electron instability: Particleâ€inâ€cell simulations. Geophysical Research Letters, 2007, 34, . | 4.0 | 36 |
| 43 | Simulating the emission of electromagnetic waves inÂtheÂterahertz range by relativistic electron beams. Astronomy and Astrophysics, 2006, 457, 313-318. | 5.1 | 27 |
| 44 | A Trigger Mechanism of Magnetic Reconnection and Particle Acceleration during Thinning of the Current Sheet. Astrophysical Journal, 2006, 652, 793-799. | 4.5 | 6 |
| 45 | Electron heating by large-amplitude shear AlfvÃ©n waves in the upper chromosphere with a force-free magnetic configuration. Astronomy and Astrophysics, 2006, 452, 597-601. | 5.1 | 2 |
| 46 | Simulated enhancement of solar type II radio bursts during the collision of two shocks associated with coronal mass ejections. Astronomy and Astrophysics, 2006, 454, 983-988. | 5.1 | 7 |
| 47 | Electromagnetic wave emission during collision between aÂcurrent sheet and a fast magnetosonic shock associated with coronal mass ejections. Astronomy and Astrophysics, 2006, 455, 1099-1103. | 5.1 | 2 |
| 48 | Simulation of Solar Type III Radio Bursts from a Magnetic Reconnection Region. Astrophysical Journal, 2005, 622, L157-L160. | 4.5 | 18 |
| 49 | Phase mixing of shear AlfvÃ©n waves as a new mechanism for electron acceleration in collisionless, kinetic plasmas. New Journal of Physics, 2005, 7, 79-79. | 2.9 | 26 |
| 50 | Particle simulation of plasma heating by a large-amplitude shear AlfvÃ©n wave through its transverse modulation in collisionless plasmas. New Journal of Physics, 2005, 7, 233-233. | 2.9 | 8 |
| 51 | Particle-In-Cell simulations of circularly polarised AlfvÃ©n wave phase mixing: A new mechanism for electron acceleration in collisionless plasmas. Astronomy and Astrophysics, 2005, 435, 1105-1113. | 5.1 | 46 |
| 52 | Simulation on solar type II radio bursts associated with corona mass ejections. Astronomy and Astrophysics, 2005, 442, 687-692. | 5.1 | 7 |
| 53 | Particle acceleration during the coalescence of two magnetic loops in electron-ion plasmas. Physics of Plasmas, 2004, 11, 5547-5556. | 1.9 | 9 |
| 54 | Particle acceleration during the counterstreaming instability in magnetized pair plasmas. Physics of Plasmas, 2004, 11, 859-865. | 1.9 | 21 |

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| 55 | The Emission of Electromagnetic Waves from the Counterstreaming Region in Magnetized Pair Plasmas. Astrophysical Journal, 2004, 602, L41-L44. | 4.5 | 11 |
| 56 | Surfatron Acceleration of Ions by Fast Magnetosonic Shocks Generated during Two Current Loops' Coalescence. Astrophysical Journal, 2004, 604, L133-L136. | 4.5 | 8 |
| 57 | The Emission of Electromagnetic Waves during the Coalescence of Two Parallel Current Loops in Solar Flares. Astrophysical Journal, 2004, 616, L179-L182. | 4.5 | 14 |
| 58 | Particle-in-cell simulations of AlfvÃ©n-cyclotron wave scattering: Proton velocity distributions. Journal of Geophysical Research, 2003, 108, . | 3.3 | 39 |
| 59 | Ion acceleration, magnetic field line reconnection, and multiple current filament coalescence of a relativistic electron beam in a plasma. Physics of Plasmas, 2002, 9, 2959-2970. | 1.9 | 33 |
| 60 | Strong Proton Acceleration during Successive Coalescence of Filament Currents in Relativistic Electron Beam System. Journal of the Physical Society of Japan, 2002, 71, 1931-1938. | 1.6 | 5 |
| 61 | A Case for Electron-Astrophysics. Experimental Astronomy, 0, , 1. | 3.7 | 11 |