

Iku Shinohara

List of Publications by Year in descending order

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115
papers

3,153
citations

279701

23
h-index

168321

53
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129
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129
docs citations

129
times ranked

1736
citing authors

#	ARTICLE	IF	CITATIONS
1	A Statistical Study of the Solar Wind Dependence of Multi-Harmonic Toroidal ULF Waves Observed by the Arase Satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	6
2	Preferential Energization of Lower-Charge-State Heavier Ions in the Near-Earth Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	3
3	Relation of the Plasmapause to the Midlatitude Ionospheric Trough, the Sub-Auroral Temperature Enhancement and the Distribution of Small-Scale Field Aligned Currents as Observed in the Magnetosphere by THEMIS, RBSP, and Arase, and in the Topside Ionosphere by Swarm. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	12
4	Flux Enhancements of Field-Aligned Low-Energy O ⁺ Ion (FALEO) in the Inner Magnetosphere: A Possible Source of Warm Plasma Cloak and Oxygen Torus. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	2
5	Simultaneous Observations of EMIC-Induced Drifting Electron Holes (EDEHs) in the Earth's Radiation Belt by the Arase Satellite, Van Allen Probes, and THEMIS. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	3
6	Statistical Study of Approaching Strong Diffusion of Low-Energy Electrons by Chorus and ECH Waves Based on <i>In Situ</i> Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	4
7	Superfast precipitation of energetic electrons in the radiation belts of the Earth. <i>Nature Communications</i> , 2022, 13, 1611.	5.8	27
8	Statistical Survey of Arase Satellite Data Sets in Conjunction With the Finnish Riometer Network. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	1
9	Signatures of Auroral Potential Structure Extending Through the Near-Equatorial Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	1
10	Collaborative Research Activities of the Arase and Van Allen Probes. <i>Space Science Reviews</i> , 2022, 218, .	3.7	10
11	Asymmetric Distributions of Auroral Kilometric Radiation in Earth's Northern and Southern Hemispheres Observed by the Arase Satellite. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	4
12	Active auroral arc powered by accelerated electrons from very high altitudes. <i>Scientific Reports</i> , 2021, 11, 1610.	1.6	6
13	Multievent Study of Characteristics and Propagation of Naturally Occurring ELF/VLF Waves Using High-Latitude Ground Observations and Conjunctions With the Arase Satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028682.	0.8	3
14	Overdarkening of Pulsating Aurora. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028838.	0.8	2
15	Investigation of Small-Scale Electron Density Irregularities Observed by the Arase and Van Allen Probes Satellites Inside and Outside the Plasmasphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA027917.	0.8	10
16	Multi-Event Analysis of Plasma and Field Variations in Source of Stable Auroral Red (SAR) Arcs in Inner Magnetosphere During Non-Storm-Time Substorms. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029081.	0.8	7
17	Extremely Collimated Electron Beams in the High Latitude Magnetosphere Observed by Arase. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090522.	1.5	0
18	A Concise Empirical Formula for the Field-Aligned Distribution of Auroral Kilometric Radiation Based on Arase Satellite and Van Allen Probes. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092805.	1.5	6

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19	Data-Driven Simulation of Rapid Flux Enhancement of Energetic Electrons With an Upper-Band Whistler Burst. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028979.	0.8	6
20	Low-Altitude Ion Upflow Observed by EISCAT and its Effects on Supply of Molecular Ions in the Ring Current Detected by Arase (ERG). <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028951.	0.8	2
21	ISEE_Wave: interactive plasma wave analysis tool. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	2
22	Direct Antenna Impedance Measurement for Quantitative AC Electric Field Measurement by Arase. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029111.	0.8	4
23	Evening Side EMIC Waves and Related Proton Precipitation Induced by a Substorm. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029091.	0.8	13
24	Discovery of proton hill in the phase space during interactions between ions and electromagnetic ion cyclotron waves. <i>Scientific Reports</i> , 2021, 11, 13480.	1.6	10
25	Contribution of Electron Pressure to Ring Current and Ground Magnetic Depression Using RAM-SCB Simulations and Arase Observations During 7–8 November 2017 Magnetic Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029109.	0.8	4
26	The Characteristics of EMIC Waves in the Magnetosphere Based on the Van Allen Probes and Arase Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029001.	0.8	35
27	Harmonization of RBSP and Arase Energetic Electron Measurements Utilizing ESA Radiation Monitor Data. <i>Space Weather</i> , 2021, 19, e2020SW002692.	1.3	7
28	Arase Observation of Simultaneous Electron Scatterings by Upper-Band and Lower-Band Chorus Emissions. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093708.	1.5	2
29	Field-Aligned Low-Energy O^{+} Flux Enhancements in the Inner Magnetosphere Observed by Arase. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029168.	0.8	6
30	The Link Between Wedge-Like and Nose-Like Ion Spectral Structures in the Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093930.	1.5	3
31	Rocket Observation of Sub-Relativistic Electrons in the Quiet Dayside Auroral Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028633.	0.8	2
32	Characterization and Calibration of High-Energy Electron Instruments Onboard the Arase Satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029110.	0.8	2
33	Penetration of MeV electrons into the mesosphere accompanying pulsating aurorae. <i>Scientific Reports</i> , 2021, 11, 13724.	1.6	37
34	Preliminary Statistical Comparisons of Spin-Averaged Electron Data From Arase and Van Allen Probes Instruments. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028929.	0.8	8
35	Field-Aligned Electron Density Distribution of the Inner Magnetosphere Inferred From Coordinated Observations of Arase and Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029073.	0.8	3
36	Inter-Calibrated Measurements of Intense Whistlers by Arase and Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029700.	0.8	6

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37	Magnetic Field and Energetic Particle Flux Oscillations and High-Frequency Waves Deep in the Inner Magnetosphere During Substorm Dipolarization: ERG Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029095.	0.8	2
38	First Simultaneous Observation of a Night Time Medium-Scale Traveling Ionospheric Disturbance From the Ground and a Magnetospheric Satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029086.	0.8	3
39	Inner Magnetospheric Response to the Interplanetary Magnetic Field B_y Component: Van Allen Probes and Arase Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028765.	0.8	4
40	Relative Contribution of ULF Waves and Whistler-mode Chorus to the Radiation Belt Variation during the May 2017 Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028972.	0.8	1
41	Role of Ducting in Relativistic Electron Loss by Whistler-mode Wave Scattering. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029851.	0.8	17
42	Dawn-Dusk Confinement of Magnetic Reconnection Site in the Near-Earth Magnetotail and Its Implication for Dipolarization and Substorm Current System. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029691.	0.8	6
43	Study of an equatorward detachment of auroral arc from the oval using ground-space observations and the BATS-R-US CIMI model. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029080.	0.8	4
44	Multipoint Measurement of Fine-Structured EMIC Waves by Arase, Van Allen Probe A and Ground Stations. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL096488.	1.5	7
45	Cross-Energy Couplings from Magnetosonic Waves to Electromagnetic Ion Cyclotron Waves through Cold Ion Heating inside the Plasmasphere. <i>Physical Review Letters</i> , 2021, 127, 245101.	2.9	11
46	Conjugate Observations of Dayside and Nightside VLF Chorus and QP Emissions Between Arase (ERG) and Kannuslehto, Finland. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA026663.	0.8	18
47	Arase Observation of the Source Region of Auroral Arcs and Diffuse Auroras in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027310.	0.8	7
48	Pitch-Angle Scattering of Inner Magnetospheric Electrons Caused by ECH Waves Obtained With the Arase Satellite. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089926.	1.5	7
49	Plasma and Field Observations in the Magnetospheric Source Region of a Stable Auroral Red (SAR) Arc by the Arase Satellite on 28 March 2017. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028068.	0.8	8
50	Plasma Waves Causing Relativistic Electron Precipitation Events at International Space Station: Lessons From Conjunction Observations With Arase Satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027875.	0.8	5
51	First Direct Observations of Propagation of Discrete Chorus Elements From the Equatorial Source to Higher Latitudes, Using the Van Allen Probes and Arase Satellites. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028315.	0.8	21
52	Detection of UHR Frequencies by a Convolutional Neural Network From Arase/PWE Data. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028075.	0.8	3
53	Asymmetric Development of Auroral Surges in the Northern and Southern Hemispheres. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088750.	1.5	2
54	Multiple time-scale beats in aurora: precise orchestration via magnetospheric chorus waves. <i>Scientific Reports</i> , 2020, 10, 3380.	1.6	33

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55	A Multi-Instrument Approach to Determining the Source-Region Extent of EEP-Driving EMIC Waves. Geophysical Research Letters, 2020, 47, e2019GL086599.	1.5	10
56	Oxygen torus and its coincidence with EMIC wave in the deep inner magnetosphere: Van Allen Probe B and Arase observations. Earth, Planets and Space, 2020, 72, 111.	0.9	17
57	Statistical Properties of Molecular Ions in the Ring Current Observed by the Arase (ERG) Satellite. Geophysical Research Letters, 2019, 46, 8643-8651.	1.5	8
58	EMIC Waves Converted From Equatorial Noise Due to $M/Q = 2$ Ions in the Plasmasphere: Observations From Van Allen Probes and Arase. Geophysical Research Letters, 2019, 46, 5662-5669.	1.5	31
59	Meridional Distribution of Middle-Energy Protons and Pressure-Driven Currents in the Nightside Inner Magnetosphere: Arase Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 5719-5733.	0.8	5
60	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.	1.5	16
61	Cusp and Nightside Auroral Sources of O^{+} in the Plasma Sheet. Journal of Geophysical Research: Space Physics, 2019, 124, 10036-10047.	0.8	10
62	Direct Comparison Between Magnetospheric Plasma Waves and Polar Mesosphere Winter Echoes in Both Hemispheres. Journal of Geophysical Research: Space Physics, 2019, 124, 9626-9639.	0.8	7
63	Transient ionization of the mesosphere during auroral breakup: Arase satellite and ground-based conjugate observations at Syowa Station. Earth, Planets and Space, 2019, 71, .	0.9	9
64	Visualization of rapid electron precipitation via chorus element wave-particle interactions. Nature Communications, 2019, 10, 257.	5.8	35
65	Proton and Electron Injection Path at Geosynchronous Altitude. Journal of Geophysical Research: Space Physics, 2019, 124, 4083-4103.	0.8	13
66	Response of the Ionosphere-Plasmasphere Coupling to the September 2017 Storm: What Erodes the Plasmasphere so Severely?. Space Weather, 2019, 17, 861-876.	1.3	25
67	Tracking the Region of High Correlation Between Pulsating Aurora and Chorus: Simultaneous Observations With Arase Satellite and Ground-Based All-Sky Imager in Russia. Journal of Geophysical Research: Space Physics, 2019, 124, 2769-2778.	0.8	5
68	The Space Physics Environment Data Analysis System (SPEDAS). Space Science Reviews, 2019, 215, 9.	3.7	332
69	Strong Diffusion of Energetic Electrons by Equatorial Chorus Waves in the Midnight-to-Dawn Sector. Geophysical Research Letters, 2019, 46, 12685-12692.	1.5	8
70	Automatic Electron Density Determination by Using a Convolutional Neural Network. IEEE Access, 2019, 7, 163384-163394.	2.6	8
71	Pulsating aurora from electron scattering by chorus waves. Nature, 2018, 554, 337-340.	13.7	149
72	Onboard software of Plasma Wave Experiment aboard Arase: instrument management and signal processing of Waveform Capture/Onboard Frequency Analyzer. Earth, Planets and Space, 2018, 70, .	0.9	64

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73	Density Depletions Associated With Enhancements of Electron Cyclotron Harmonic Emissions: An ERG Observation. <i>Geophysical Research Letters</i> , 2018, 45, 10,075.	1.5	10
74	Instantaneous Frequency Analysis on Nonlinear EMIC Emissions: Arase Observation. <i>Geophysical Research Letters</i> , 2018, 45, 13,199.	1.5	13
75	Geospace exploration project ERG. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	201
76	Exploration of energization and radiation in geospace (ERG): challenges, development, and operation of satellite systems. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	9
77	The ERG Science Center. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	124
78	The extremely high-energy electron experiment (XEP) onboard the Arase (ERG) satellite. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	23
79	The Plasma Wave Experiment (PWE) on board the Arase (ERG) satellite. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	124
80	Microscopic Observations of Pulsating Aurora Associated With Chorus Element Structures: Coordinated Arase Satellite&P;WING Observations. <i>Geophysical Research Letters</i> , 2018, 45, 12,125.	1.5	24
81	Ion Energies Dominating Energy Density in the Inner Magnetosphere: Spatial Distributions and Composition, Observed by Arase/MEP&P;. <i>Geophysical Research Letters</i> , 2018, 45, 12,153-12,162.	1.5	15
82	Magnetosphere&P;Ionosphere Connection of Storm&P;Time Region&P;2 Field&P;Aligned Current and Ring Current: Arase and AMPERE Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9545-9559.	0.8	7
83	Rapid Loss of Relativistic Electrons by EMIC Waves in the Outer Radiation Belt Observed by Arase, Van Allen Probes, and the PWING Ground Stations. <i>Geophysical Research Letters</i> , 2018, 45, 12,720.	1.5	25
84	Temporal and Spatial Correspondence of Pc1/EMIC Waves and Relativistic Electron Precipitations Observed With Ground&P;Based Multi&P;Instruments on 27 March 2017. <i>Geophysical Research Letters</i> , 2018, 45, 13,182.	1.5	13
85	Longitudinal Structure of Oxygen Torus in the Inner Magnetosphere: Simultaneous Observations by Arase and Van Allen Probe A. <i>Geophysical Research Letters</i> , 2018, 45, 10,177.	1.5	18
86	Deformation of Electron Pitch Angle Distributions Caused by Upper Band Chorus Observed by the Arase Satellite. <i>Geophysical Research Letters</i> , 2018, 45, 7996-8004.	1.5	17
87	Purple Auroral Rays and Global Pc1 Pulsations Observed at the CIR&P;Associated Solar Wind Density Enhancement on 21 March 2017. <i>Geophysical Research Letters</i> , 2018, 45, 10,819.	1.5	4
88	Magnetic Field Dipolarization and Its Associated Ion Flux Variations in the Dawnside Deep Inner Magnetosphere: Arase Observations. <i>Geophysical Research Letters</i> , 2018, 45, 7942-7950.	1.5	2
89	Energetic Electron Precipitation Associated With Pulsating Aurora Observed by VLF Radio Propagation During the Recovery Phase of a Substorm on 27 March 2017. <i>Geophysical Research Letters</i> , 2018, 45, 12,651.	1.5	5
90	Diagnostics of Closed Magnetic Flux Depletion in the Near&P;Earth Magnetotail During the Substorm Growth Phase. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8377-8389.	0.8	2

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91	Substorm-Associated Ionospheric Flow Fluctuations During the 27 March 2017 Magnetic Storm: SuperDARN-Arase Conjunction. <i>Geophysical Research Letters</i> , 2018, 45, 9441-9449.	1.5	9
92	Giant Pulsations Excited by a Steep Earthward Gradient of Proton Phase Space Density: Arase Observation. <i>Geophysical Research Letters</i> , 2018, 45, 6773-6781.	1.5	9
93	Drift-Bounce Resonance Between Pc5 Pulsations and Ions at Multiple Energies in the Nightside Magnetosphere: Arase and MMS Observations. <i>Geophysical Research Letters</i> , 2018, 45, 7277-7286.	1.5	14
94	The ARASE (ERG) magnetic field investigation. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	118
95	Coincident Observations by the Kharkiv IS Radar and Ionosonde, DMSP and Arase (ERG) Satellites, and FLIP Model Simulations: Implications for the NRLMSISE-00 Hydrogen Density, Plasmasphere, and Ionosphere. <i>Geophysical Research Letters</i> , 2018, 45, 8062-8071.	1.5	17
96	Ion density and temperature profiles along (X_{GSM}) and across (Z_{GSM}) the magnetotail as observed by THEMIS, Geotail, and ARTEMIS. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1590-1599.	0.8	21
97	Ground-based instruments of the PWING project to investigate dynamics of the inner magnetosphere at subauroral latitudes as a part of the ERG-ground coordinated observation network. <i>Earth, Planets and Space</i> , 2017, 69, .	0.9	74
98	Visualization tool for three-dimensional plasma velocity distributions (ISEE_3D) as a plug-in for SPEDAS. <i>Earth, Planets and Space</i> , 2017, 69, .	0.9	6
99	Geospace exploration project: Arase (ERG). <i>Journal of Physics: Conference Series</i> , 2017, 869, 012095.	0.3	17
100	The dawn-dusk length of the X line in the near-Earth magnetotail: Geotail survey in 1994-2014. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8762-8773.	0.8	16
101	Ion acceleration processes in magnetic reconnection: Geotail observations in the magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1766-1783.	0.8	25
102	Full kinetic simulations of plasma flow interactions with meso- and microscale magnetic dipoles. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	9
103	Three-dimensional structure of magnetic reconnection in the magnetotail from Geotail observations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1667-1678.	0.8	72
104	Ion and electron dynamics in the ion-electron decoupling region of magnetic reconnection with Geotail observations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 7703-7713.	0.8	23
105	Momentum transfer of solar wind plasma in a kinetic scale magnetosphere. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	11
106	Thrust and Attitude Evaluation of Magnetic Sail by Three-Dimensional Hybrid Particle-in-Cell Code. <i>Journal of Propulsion and Power</i> , 2012, 28, 652-663.	1.3	13
107	Construction of magnetic reconnection in the near-Earth magnetotail with Geotail. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	68
108	A powerful tool for browsing quick-look data in solar-terrestrial physics: Conjunction Event Finder. <i>Earth, Planets and Space</i> , 2011, 63, e1-e4.	0.9	12

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109	Pressure changes associated with substorm depolarization in the near-Earth plasma sheet. Journal of Geophysical Research, 2010, 115, .	3.3	14
110	The Optical Mesosphere Thermosphere Imagers (OMTIs) for network measurements of aurora and airglow. , 2009, , .		15
111	Ballooning mode waves prior to substorm-associated dipolarizations: Geotail observations. Geophysical Research Letters, 2008, 35, .	1.5	96
112	Magnetic field fluctuations during substorm-associated dipolarizations in the nightside plasma sheet around $X = \hat{a}^* 10RE$. Journal of Geophysical Research, 2005, 110, .	3.3	36
113	Structure of the Hall current system in the vicinity of the magnetic reconnection site. Journal of Geophysical Research, 2003, 108, .	3.3	78
114	Geotail observations of the Hall current system: Evidence of magnetic reconnection in the magnetotail. Journal of Geophysical Research, 2001, 106, 25929-25949.	3.3	298
115	Solar wind control of density and temperature in the near-Earth plasma sheet: WIND/GEOTAIL collaboration. Geophysical Research Letters, 1997, 24, 935-938.	1.5	271