

Yoshiharu Omura

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5594186/yoshiharu-omura-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

230
papers

7,343
citations

45
h-index

76
g-index

266
ext. papers

8,124
ext. citations

2.8
avg, IF

6.18
L-index

#	Paper	IF	Citations
230	Electrostatic solitary waves (ESW) in the magnetotail: BEN wave forms observed by GEOTAIL. <i>Geophysical Research Letters</i> , 1994 , 21, 2915-2918	4.9	465
229	Theory and simulation of the generation of whistler-mode chorus. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		360
228	Electron beam instabilities as generation mechanism of electrostatic solitary waves in the magnetotail. <i>Journal of Geophysical Research</i> , 1996 , 101, 2685-2697		241
227	Nonlinear mechanisms of lower-band and upper-band VLF chorus emissions in the magnetosphere. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		216
226	A review of observational, theoretical and numerical studies of VLF triggered emissions. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1991 , 53, 351-368		184
225	Relativistic turning acceleration of resonant electrons by coherent whistler mode waves in a dipole magnetic field. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		179
224	Plasma Wave Observations with GEOTAIL Spacecraft.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1994 , 46, 59-95		137
223	The numerical simulation of VLF chorus and discrete emissions observed on the Geotail satellite using a Vlasov code. <i>Journal of Geophysical Research</i> , 1997 , 102, 27083-27097		125
222	Computer simulation of electrostatic solitary waves: A nonlinear model of broadband electrostatic noise. <i>Geophysical Research Letters</i> , 1994 , 21, 2923-2926	4.9	125
221	Computer simulation of chorus wave generation in the Earth's inner magnetosphere. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	124
220	A new charge conservation method in electromagnetic particle-in-cell simulations. <i>Computer Physics Communications</i> , 2003 , 156, 73-85	4.2	116
219	Cluster observations of EMIC triggered emissions in association with Pc1 waves near Earth's plasmapause. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	110
218	Van Allen probes, NOAA, GOES, and ground observations of an intense EMIC wave event extending over 12 h in magnetic local time. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 5465-5488	2.6	105
217	Dynamics of high-energy electrons interacting with whistler mode chorus emissions in the magnetosphere. <i>Journal of Geophysical Research</i> , 2006 , 111,		97
216	Computer simulations of basic processes of coherent whistler wave-particle interactions in the magnetosphere. <i>Journal of Geophysical Research</i> , 1982 , 87, 4435		94
215	Ultra-relativistic acceleration of electrons in planetary magnetospheres. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	91
214	Triggering process of whistler mode chorus emissions in the magnetosphere. <i>Journal of Geophysical Research</i> , 2011 , 116,		89

213	Linear analysis of ion cyclotron interaction in a multicomponent plasma. <i>Journal of Geophysical Research</i> , 1984 , 89, 9119		88
212	Theory and observation of electromagnetic ion cyclotron triggered emissions in the magnetosphere. <i>Journal of Geophysical Research</i> , 2010 , 115,		85
211	Nonlinear pitch angle scattering of relativistic electrons by EMIC waves in the inner magnetosphere. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		83
210	Effect of the background magnetic field inhomogeneity on generation processes of whistler-mode chorus and broadband hiss-like emissions. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 4189-4198 ^{2,6}		81
209	Full particle simulation of whistler-mode rising chorus emissions in the magnetosphere. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		78
208	Relativistic electron microbursts due to nonlinear pitch angle scattering by EMIC triggered emissions. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 5008-5020	2.6	77
207	Heating of thermal helium in the equatorial magnetosphere: A simulation study. <i>Journal of Geophysical Research</i> , 1985 , 90, 8281		76
206	One- and two-dimensional simulations of electron beam instability: Generation of electrostatic and electromagnetic 2f p waves. <i>Journal of Geophysical Research</i> , 2001 , 106, 18693-18711		74
205	Microburst precipitation of energetic electrons associated with chorus wave generation. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	71
204	Formation process of relativistic electron flux through interaction with chorus emissions in the Earth's inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 9545-9562	2.6	68
203	Van Allen Probes observations of prompt MeV radiation belt electron acceleration in nonlinear interactions with VLF chorus. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 324-339	2.6	66
202	Fine structure of plasmaspheric hiss. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 9134-9144 ^{2,6}		63
201	Harmonic Langmuir waves. I. Nonlinear dispersion relation. <i>Physics of Plasmas</i> , 2003 , 10, 364-372	2.1	61
200	Two-dimensional computer simulations of electrostatic solitary waves observed by Geotail spacecraft. <i>Journal of Geophysical Research</i> , 1998 , 103, 11841-11850		60
199	A study of generation mechanism of VLF triggered emission by self-consistent particle code. <i>Journal of Geophysical Research</i> , 2006 , 111,		58
198	Amplitude dependence of frequency sweep rates of whistler mode chorus emissions. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		57
197	Long-term occurrence probabilities of intense geomagnetic storm events. <i>Space Weather</i> , 2007 , 5, n/a-n/a ^{2,6}		57
196	First observation of rising-tone magnetosonic waves. <i>Geophysical Research Letters</i> , 2014 , 41, 7419-7426 ^{4,9}		55

195	Cluster and channel effect phase bunchings by whistler waves in the nonuniform geomagnetic field. <i>Journal of Geophysical Research</i> , 1981 , 86, 779		55
194	Bernstein-Greene-Kruskal analysis of electrostatic solitary waves observed with Geotail. <i>Journal of Geophysical Research</i> , 1997 , 102, 22131-22139		52
193	Relativistic turning acceleration of radiation belt electrons by whistler mode chorus. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		51
192	Harmonic Langmuir waves. III. Vlasov simulation. <i>Physics of Plasmas</i> , 2003 , 10, 382-391	2.1	50
191	An improved masking method for absorbing boundaries in electromagnetic particle simulations. <i>Computer Physics Communications</i> , 2001 , 137, 286-299	4.2	50
190	A computational and theoretical analysis of falling frequency VLF emissions. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		49
189	Generation Processes of Whistler Mode Chorus Emissions: Current Status of Nonlinear Wave Growth Theory. <i>Geophysical Monograph Series</i> , 2013 , 243-254	1.1	47
188	Turbulent acceleration of superthermal electrons. <i>Physics of Plasmas</i> , 2007 , 14, 100701	2.1	47
187	A computational and theoretical investigation of nonlinear wave-particle interactions in oblique whistlers. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 2890-2911	2.6	45
186	Triggering process of electromagnetic ion cyclotron rising tone emissions in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 5553-5561	2.6	45
185	Simulation of electromagnetic ion cyclotron triggered emissions in the Earth's inner magnetosphere. <i>Journal of Geophysical Research</i> , 2011 , 116,		44
184	Relativistic particle acceleration in the process of whistler-mode chorus wave generation. <i>Geophysical Research Letters</i> , 2007 , 34, n/a-n/a	4.9	44
183	THEMIS observation of chorus elements without a gap at half the gyrofrequency. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		43
182	Rapid precipitation of radiation belt electrons induced by EMIC rising tone emissions localized in longitude inside and outside the plasmopause. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 293-309	2.6	42
181	Electrostatic solitary waves carried by diffused electron beams observed by the Geotail spacecraft. <i>Journal of Geophysical Research</i> , 1999 , 104, 14627-14637		42
180	Nonlinear wave growth theory of coherent hiss emissions in the plasmasphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 7642-7657	2.6	41
179	Relativistic electron precipitation induced by EMIC-triggered emissions in a dipole magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4384-4399	2.6	41
178	Mirror instability and L-mode electromagnetic ion cyclotron instability: Competition in the Earth's magnetosheath. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		40

177	Harmonic Langmuir waves. II. Turbulence spectrum. <i>Physics of Plasmas</i> , 2003 , 10, 373-381	2.1	40
176	The Lunar Radar Sounder (LRS) Onboard the KAGUYA (SELENE) Spacecraft. <i>Space Science Reviews</i> , 2010 , 154, 145-192	7.5	39
175	The Plasma Wave Investigation (PWI) onboard the BepiColombo/MMO: First measurement of electric fields, electromagnetic waves, and radio waves around Mercury. <i>Planetary and Space Science</i> , 2010 , 58, 238-278	2	39
174	Statistical studies of plasma waves and backstreaming electrons in the terrestrial electron foreshock observed by Geotail. <i>Journal of Geophysical Research</i> , 2000 , 105, 79-103		39
173	Electromagnetic ion cyclotron waves in the Earth's magnetosphere with a kappa-Maxwellian particle distribution. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 8426-8439	2.6	38
172	Experimental evidence of ion acoustic soliton chain formation and validation of nonlinear fluid theory. <i>Physics of Plasmas</i> , 2013 , 20, 062103	2.1	37
171	The BepiColombo mission: An outstanding tool for investigating the Hermean environment. <i>Planetary and Space Science</i> , 2010 , 58, 40-60	2	37
170	Electrostatic particle simulations of solitary waves in the auroral region. <i>Journal of Geophysical Research</i> , 2000 , 105, 23239-23249		37
169	Electromagnetic ion cyclotron rising tone emissions observed by THEMIS probes outside the plasmopause. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 1874-1886	2.6	36
168	Simultaneous satellite observations of VLF chorus, hot and relativistic electrons in a magnetic storm recovery phase. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	36
167	Nonlinear evolution of ion acoustic solitary waves in space plasmas: Fluid and particle-in-cell simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5589-5599	2.6	35
166	Acceleration of relativistic electrons due to resonant scattering by whistler mode waves generated by temperature anisotropy in the inner magnetosphere. <i>Journal of Geophysical Research</i> , 2004 , 109,		35
165	Particle simulations of whistler-mode rising-tone emissions triggered by waves with different amplitudes. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		34
164	Particle simulation of plasma response to an applied electric field parallel to magnetic field lines. <i>Journal of Geophysical Research</i> , 2003 , 108,		34
163	Electrostatic solitary waves associated with magnetic anomalies and wake boundary of the Moon observed by KAGUYA. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	33
162	Formation of electrostatic solitary waves in space plasmas: Particle simulations with open boundary conditions. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 19-1-SMP 19-16		33
161	Slow electrostatic solitary waves in Earth's plasma sheet boundary layer. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 4452-4465	2.6	33
160	Nonlinear dynamics of electrons interacting with oblique whistler mode chorus in the magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 675-694	2.6	32

159	Rapid energization of radiation belt electrons by nonlinear wave trapping. <i>Annales Geophysicae</i> , 2008 , 26, 3451-3456	2	32
158	Akebono observations of EMIC waves in the slot region of the radiation belts. <i>Geophysical Research Letters</i> , 2013 , 40, 5587-5591	4.9	31
157	Computer simulations of relativistic whistler-mode wave-particle interactions. <i>Physics of Plasmas</i> , 2004 , 11, 3530-3534	2.1	31
156	EMIC triggered chorus emissions in Cluster data. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 1159-1169	2.6	30
155	Nonlinear spatiotemporal evolution of whistler mode chorus waves in Earth's inner magnetosphere. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		30
154	Competing processes of whistler and electrostatic instabilities in the magnetosphere. <i>Journal of Geophysical Research</i> , 1987 , 92, 8649		30
153	Electron hybrid code simulation of whistler-mode chorus generation with real parameters in the Earth's inner magnetosphere. <i>Earth, Planets and Space</i> , 2016 , 68,	2.9	30
152	Nonlinear evolution of the electron two-stream instability: Two-dimensional particle simulations. <i>Journal of Geophysical Research</i> , 2006 , 111,		28
151	Linear and nonlinear interactions of an electron beam with oblique whistler and electrostatic waves in the magnetosphere. <i>Journal of Geophysical Research</i> , 1993 , 98, 21353-21363		28
150	Subpacket structures in EMIC rising tone emissions observed by the THEMIS probes. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 7318-7330	2.6	27
149	Effect of the solar wind proton entry into the deepest lunar wake. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	27
148	Electrostatic solitary waves as collective charges in a magnetospheric plasma: Physical structure and properties of Bernstein-Greene-Kruskal (BGK) solitons. <i>Journal of Geophysical Research</i> , 2003 , 108,		27
147	Geotail observation of upper band and lower band chorus elements in the outer magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 4694-4705	2.6	26
146	Rapid generation of Langmuir wave packets during electron beam-plasma instabilities. <i>Physics of Plasmas</i> , 1996 , 3, 2559-2563	2.1	26
145	Nonlinear Dynamics of Radiation Belt Electrons Interacting With Chorus Emissions Localized in Longitude. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4835-4857	2.6	26
144	The Energization and Radiation in Geospace (ERG) Project. <i>Geophysical Monograph Series</i> , 2013 , 103-116	1.1	25
143	Electromagnetic ion cyclotron waves in the helium branch induced by multiple electromagnetic ion cyclotron triggered emissions. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	25
142	Self-consistent particle simulation of whistler mode triggered emissions. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		25

141	A study of the numerical heating in electrostatic particle simulations. <i>Computer Physics Communications</i> , 1994 , 79, 249-259	4.2	25
140	Effects of nonlinear wave growth on extreme radiation belt electron fluxes. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		24
139	Generation mechanism of ESW based on GEOTAIL plasma wave observation, plasma observation and particle simulation. <i>Geophysical Research Letters</i> , 1999 , 26, 421-424	4.9	24
138	Computer experiments on whistler and plasma wave emissions for Spacelab-2 electron beam. <i>Geophysical Research Letters</i> , 1988 , 15, 319-322	4.9	24
137	Precipitation of highly energetic protons by helium branch electromagnetic ion cyclotron triggered emissions. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		23
136	Coherent nonlinear scattering of energetic electrons in the process of whistler mode chorus generation. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		23
135	Nonlinear Damping of Oblique Whistler Mode Waves Via Landau Resonance. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 7462-7472	2.6	23
134	Observational evidence of the nonlinear wave growth theory of plasmaspheric hiss. <i>Geophysical Research Letters</i> , 2016 , 43, 10,040-10,049	4.9	22
133	Parameter spaces for linear and nonlinear whistler-mode waves. <i>Physics of Plasmas</i> , 2013 , 20, 072110	2.1	22
132	Characteristics of electrostatic solitary waves observed in the plasma sheet boundary: Statistical analyses. <i>Nonlinear Processes in Geophysics</i> , 1999 , 6, 179-186	2.9	22
131	Type-II entry of solar wind protons into the lunar wake: Effects of magnetic connection to the night-side surface. <i>Planetary and Space Science</i> , 2013 , 87, 106-114	2	21
130	OhHelp 2009 ,		21
129	A scheme for forecasting severe space weather. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 2824-2835	2.6	20
128	Spectrum characteristics of electromagnetic ion cyclotron triggered emissions and associated energetic proton dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 3480-3489	2.6	20
127	Ray tracing of whistler-mode chorus elements: implications for generation mechanisms of rising and falling tone emissions. <i>Annales Geophysicae</i> , 2013 , 31, 665-673	2	20
126	Two-dimensional electrostatic solitary waves observed by geotail in the magnetotail. <i>Advances in Space Research</i> , 1999 , 24, 55-58	2.4	19
125	Extremely intense whistler mode waves near the bow shock: Geotail observations. <i>Journal of Geophysical Research</i> , 1999 , 104, 449-461		19
124	A statistical study of EMIC rising and falling tone emissions observed by THEMIS. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 8374-8391	2.6	19

123	Pulsating proton aurora caused by rising tone Pc1 waves. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 1608-1618	2.6	18
122	Nonlinear Drift Resonance Between Charged Particles and Ultralow Frequency Waves: Theory and Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 8773-8782	4.9	18
121	Cyclotron Acceleration of Relativistic Electrons Through Landau Resonance With Obliquely Propagating Whistler-Mode Chorus Emissions. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 2795	2.6	18
120	Rapid Precipitation of Relativistic Electron by EMIC Rising-Tone Emissions Observed by the Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 6701-6714	2.6	18
119	Characteristics of Decomposition Powers of L-Band Multi-Polarimetric SAR in Assessing Tree Growth of Industrial Plantation Forests in the Tropics. <i>Remote Sensing</i> , 2012 , 4, 3058-3077	5	18
118	Significance of Wave-Particle Interaction Analyzer for direct measurements of nonlinear wave-particle interactions. <i>Annales Geophysicae</i> , 2013 , 31, 503-512	2	18
117	Nonlinear wave growth theory of whistler-mode chorus and hiss emissions in the magnetosphere. <i>Earth, Planets and Space</i> , 2021 , 73,	2.9	18
116	Particle Simulation of Electromagnetic Waves and Its Application to Space Plasmas 1985 , 43-102		17
115	Two-dimensional particle simulation of electromagnetic field signature associated with electrostatic solitary waves. <i>Journal of Geophysical Research</i> , 2004 , 109,		16
114	Dependence of Generation of Whistler Mode Chorus Emissions on the Temperature Anisotropy and Density of Energetic Electrons in the Earth's Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1165-1177	2.6	15
113	Study of Wave-Particle Interactions for Whistler Mode Waves at Oblique Angles by Utilizing the Gyroaveraging Method. <i>Radio Science</i> , 2017 , 52, 1268-1281	1.4	15
112	Time Domain Simulation of Geomagnetically Induced Current (GIC) Flowing in 500-kV Power Grid in Japan Including a Three-Dimensional Ground Inhomogeneity. <i>Space Weather</i> , 2018 , 16, 1946-1959	3.7	15
111	Fine Structure of Whistler Mode Hiss in Plasmaspheric Plumes Observed by the Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9055-9064	2.6	15
110	A case study of EMIC waves associated with sudden geosynchronous magnetic field changes. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 3322-3341	2.6	14
109	Effect of trapped-particle deficit and structure of localized electrostatic perturbations of different dimensionality. <i>Journal of Geophysical Research</i> , 2004 , 109,		14
108	Formation and interaction of multiple coherent phase space structures in plasma. <i>Physics of Plasmas</i> , 2017 , 24, 060704	2.1	13
107	Spectral characteristics of steady quiet-time EMIC waves observed at geosynchronous orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 8640-8660	2.6	13
106	Multidimensional nonlinear mirror-mode structures in the Earth's magnetosheath. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		13

105	A new instrument for the study of wave-particle interactions in space: One-chip Wave-Particle Interaction Analyzer. <i>Earth, Planets and Space</i> , 2009 , 61, 765-778	2.9	13
104	Electrostatic Solitary Waves observed in the geomagnetic tail and other regions. <i>Advances in Space Research</i> , 1999 , 23, 1689-1697	2.4	13
103	Wave propagation in and around negative-dielectric-constant discharge plasma. <i>Physics of Plasmas</i> , 2018 , 25, 031901	2.1	12
102	Properties of dayside nonlinear rising tone chorus emissions at large L observed by GEOTAIL. <i>Earth, Planets and Space</i> , 2009 , 61, 625-628	2.9	12
101	Computer experiments of amplitude-modulated Langmuir waves: Application to the Geotail observation. <i>Journal of Geophysical Research</i> , 2005 , 110,		12
100	Interaction of Small Phase Density Holes. <i>Physica Scripta</i> , 1999 , 60, 438-451	2.6	12
99	Computer simulation studies of VLF triggered emissions deformation of distribution function by trapping and detrapping. <i>Geophysical Research Letters</i> , 1983 , 10, 607-610	4.9	12
98	A study of particle trapping by whistler mode waves in the geomagnetic field: The early development of the VLF quiet band. <i>Journal of Geophysical Research</i> , 1984 , 89, 2275		12
97	Acceleration mechanism of radiation belt electrons through interaction with multi-subpacket chorus waves. <i>Earth, Planets and Space</i> , 2020 , 72,	2.9	12
96	Nonlinear dynamics of resonant electrons interacting with coherent Langmuir waves. <i>Physics of Plasmas</i> , 2018 , 25, 032105	2.1	11
95	Ion hole formation and nonlinear generation of electromagnetic ion cyclotron waves: THEMIS observations. <i>Geophysical Research Letters</i> , 2017 , 44, 8730-8738	4.9	11
94	Nonlinear damping of chorus emissions at local half cyclotron frequencies observed by Geotail at L > 9. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 4475-4483	2.6	11
93	Geotail observation of counter directed ESWs associated with the separatrix of magnetic reconnection in the near-Earth magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 202-210	2.6	11
92	Plasma Waves in Geospace: Geotail Observations. <i>Geophysical Monograph Series</i> , 2013 , 259-319	1.1	11
91	A 2D simulation study of Langmuir, whistler, and cyclotron maser instabilities induced by an electron ring-beam distribution. <i>Physics of Plasmas</i> , 2011 , 18, 092110	2.1	11
90	Low Frequency plasma wave Analyzer (LFA) onboard the PLANET-B spacecraft. <i>Earth, Planets and Space</i> , 1998 , 50, 223-228	2.9	11
89	Nonlinear evolution of high frequency R-mode waves excited by water group ions near comets: Computer experiments. <i>Geophysical Research Letters</i> , 1989 , 16, 9-12	4.9	11
88	Simulation study of frequency variations of VLF triggered emissions in a homogeneous field.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1985 , 37, 829-837		11

87	Nonlinear Evolution of Radiation Belt Electron Fluxes Interacting With Oblique Whistler Mode Chorus Emissions. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027465	2.6	10
86	Theory, modeling, and integrated studies in the Arase (ERG) project. <i>Earth, Planets and Space</i> , 2018 , 70,	2.9	10
85	Linear and Nonlinear Growth of Magnetospheric Whistler Mode Waves. <i>Geophysical Monograph Series</i> , 2013 , 265-280	1.1	10
84	Nonlinear saturation of cyclotron maser instability associated with energetic ring-beam electrons. <i>Physical Review Letters</i> , 2009 , 103, 105101	7.4	10
83	MEFISTO: An electric field instrument for BepiColombo/MMO. <i>Advances in Space Research</i> , 2006 , 38, 672-679	2.4	10
82	Observational Evidence of Dissipative Small Scale Processes: Geotail Spacecraft Observation and Simulation of Electrostatic Solitary Waves. <i>Astrophysics and Space Science</i> , 2001 , 277, 45-57	1.6	10
81	Plasma wave signatures in the magnetotail reconnection region: MHD simulation and ray tracing. <i>Journal of Geophysical Research</i> , 1993 , 98, 9189		10
80	Parallel heating associated with interaction of forward and backward electromagnetic cyclotron waves.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1988 , 40, 949-961		10
79	A Model of the Subpacket Structure of Rising Tone Chorus Emissions. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028094	2.6	10
78	Nonlinear Generation Mechanism of EMIC Falling Tone Emissions. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9924-9933	2.6	9
77	Computer simulations of beam injection experiments for SEPAC/Spacelab 1 mission. <i>Radio Science</i> , 1984 , 19, 496-502	1.4	9
76	Particle simulation of electromagnetic emissions from electrostatic instability driven by an electron ring beam on the density gradient. <i>Physics of Plasmas</i> , 2018 , 25, 042905	2.1	8
75	Yearly Variation of Acacia Plantation Forests Obtained by Polarimetric Analysis of ALOS PALSAR Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015 , 8, 5294-5304	4.7	8
74	Interaction dynamics of electrostatic solitary waves. <i>Nonlinear Processes in Geophysics</i> , 1999 , 6, 205-209	2.9	8
73	Development and Application of Geospace Environment Simulator for the Analysis of Spacecraft-Plasma Interactions. <i>IEEE Transactions on Plasma Science</i> , 2006 , 34, 2094-2102	1.3	7
72	Simulation study on nonlinear frequency shift of narrow band whistler-mode waves in a homogeneous magnetic field. <i>Earth, Planets and Space</i> , 2006 , 58, 1219-1225	2.9	7
71	Electric fields in the Hermean environment. <i>Advances in Space Research</i> , 2006 , 38, 627-631	2.4	7
70	Approximate invariant of electron motion in the field of a whistler propagating along the geomagnetic field. <i>Geophysical Research Letters</i> , 2002 , 29, 20-1	4.9	7

69	Plasma waves in slow-mode shocks observed by geotail spacecraft. <i>Advances in Space Research</i> , 1999 , 24, 51-54	2.4	7
68	Competing processes of plasma wave instabilities driven by an anisotropic electron beam: Linear results and two-dimensional particle simulations. <i>Journal of Geophysical Research</i> , 1996 , 101, 15475-15490		7
67	Linear coupling effects originated in electron nongyrotropy. <i>Journal of Geophysical Research</i> , 1993 , 98, 21071-21076		7
66	Particle trapping and ponderomotive processes during breaking of ion acoustic waves in plasmas. <i>Physics of Plasmas</i> , 2017 , 24, 102122	2.1	6
65	One-dimensional particle simulation of wave propagation and generation of second harmonic waves in a composite of plasma and metamaterial. <i>Physics of Plasmas</i> , 2017 , 24, 122112	2.1	6
64	A computer simulation study of Hook-induced electrostatic bursts observed in the magnetosphere by the ISEE satellite. <i>Journal of Geophysical Research</i> , 1984 , 89, 3873		6
63	Drift Resonance Between Particles and Compressional Toroidal ULF Waves in Dipole Magnetic Field. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028842	2.6	6
62	Instantaneous Frequency Analysis on Nonlinear EMIC Emissions: Arase Observation. <i>Geophysical Research Letters</i> , 2018 , 45, 13,199	4.9	6
61	Novel nonlinear mechanism of the generation of non-thermal continuum radiation. <i>Physics of Plasmas</i> , 2019 , 26, 022904	2.1	5
60	Observations of the Source Region of Whistler Mode Waves in Magnetosheath Mirror Structures. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027488	2.6	5
59	Electron acceleration by Z-mode waves associated with cyclotron maser instability. <i>Physics of Plasmas</i> , 2012 , 19, 122902	2.1	5
58	Orbital Dynamics of Solar Sails for Geomagnetic Tail Exploration. <i>Journal of Spacecraft and Rockets</i> , 2008 , 45, 316-323	1.5	5
57	On the three-dimensional configuration of electrostatic solitary waves. <i>Nonlinear Processes in Geophysics</i> , 2004 , 11, 313-318	2.9	5
56	Automatic Waveform Selection method for Electrostatic Solitary Waves. <i>Earth, Planets and Space</i> , 2000 , 52, 495-502	2.9	5
55	Generation Process of Large-Amplitude Upper-Band Chorus Emissions Observed by Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 3704-3713	2.6	5
54	Fine Structure of Chorus Wave Packets: Comparison Between Observations and Wave Generation Models. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029330	2.6	5
53	Nonlinear wave growth analysis of chorus emissions modulated by ULF waves. <i>Geophysical Research Letters</i> ,	4.9	5
52	Evaluation of Plasma Properties From Chorus Waves Observed at the Generation Region. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 4125-4136	2.6	4

51	Electron acceleration by Z-mode and whistler-mode waves. <i>Physics of Plasmas</i> , 2013 , 20, 112901	2.1	4
50	Computer simulations for direct conversion of the HF electromagnetic wave into the upper hybrid wave in ionospheric heating experiments. <i>Annales Geophysicae</i> , 1998 , 16, 1251-1258	2	4
49	Electromagnetic Particle-In-Cell simulation on the impedance of a dipole antenna surrounded by an ion sheath. <i>Radio Science</i> , 2008 , 43, n/a-n/a	1.4	4
48	Condition for charged particle trapping in a three-dimensional electrostatic potential well in the presence of a magnetic field. <i>Physica Scripta</i> , 2006 , 74, 227-231	2.6	4
47	PLASMA/RADIO WAVE OBSERVATIONS AT MERCURY BY THE BEPICOLOMBO MMO SPACECRAFT 2006 , 71-84		4
46	Particle Simulation of the Generation of Plasmaspheric Hiss. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027973	2.6	4
45	Modulation of Electromagnetic Ion Cyclotron Waves by Pc5 ULF Waves and Energetic Ring Current Ions. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 1992-2009	2.6	3
44	Simulation of Electron Beam Instabilities and Nonlinear Potential Structures 2003 , 79-92		3
43	Wave and particle measurements for chorus emissions by GEOTAIL in the magnetosphere. <i>Advances in Space Research</i> , 1999 , 24, 91-94	2.4	3
42	Computer simulation on nonlinear interaction of intense microwave with space plasmas. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 1995 , 78, 89-103		3
41	Plasma response to high potential satellite in Electrodynamic Tether System. <i>Journal of Geophysical Research</i> , 1993 , 98, 1531-1544		3
40	Comparison between particle simulation and full-wave analysis for wave propagation in a nonuniform plasma. <i>Radio Science</i> , 1992 , 27, 449-462	1.4	3
39	Extremely intense whistler mode waves near the bow shock: Geotail observations. <i>Journal of Geophysical Research</i> , 1999 , 104, 449-462		3
38	Roles of Magnetospheric Convection on Nonlinear Drift Resonance Between Electrons and ULF Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027787	2.6	3
37	Correction to Relativistic particle acceleration in the process of whistler-mode chorus wave generation <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	2
36	Energetic particle parallel diffusion in a cascading wave turbulence in the foreshock region. <i>Nonlinear Processes in Geophysics</i> , 2007 , 14, 587-601	2.9	2
35	Computer experiments on electromagnetic environment of plasma sheath at conducting surface. <i>Advances in Space Research</i> , 2004 , 34, 2441-2444	2.4	2
34	PIC simulations of spacecraft charging and the neutralization process by plasma emission. <i>Advances in Space Research</i> , 2004 , 34, 2437-2440	2.4	2

33	Stability of perpendicular propagation in time-varying nongyrotropic plasmas: Simulations. <i>Journal of Geophysical Research</i> , 1998 , 103, 29493-29503		2
32	Electron beam injection and associated LHR wave excitation: Computer experiments of electrodynamic tether system. <i>Geophysical Research Letters</i> , 1991 , 18, 821-824	4.9	2
31	Comment on Particle simulation of ion heating in the ring current by S. Qian, M. K. Hudson, and I. Roth. <i>Journal of Geophysical Research</i> , 1991 , 96, 7929		2
30	Computer simulation of passage of an electron beam through a plasma. <i>Advances in Space Research</i> , 1988 , 8, 151-155	2.4	2
29	Origin of Frequency-Doubling and Shoulder-Like Magnetic Pulsations in ULF Waves. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL096532	4.9	2
28	The Lunar Radar Sounder (LRS) Onboard the Kaguya (SELENE) Spacecraft 2010 , 145-192		2
27	The Impenetrable Barrier: Suppression of Chorus Wave Growth by VLF Transmitters. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027913	2.6	2
26	Full Particle Simulation of Whistler-Mode Triggered Falling-Tone Emissions in the Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027953	2.6	2
25	Energy Transfer Between Hot Protons and Electromagnetic Ion Cyclotron Waves in Compressional Pc5 Ultra-low Frequency Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028912	2.6	2
24	Characteristics of Subpacket Structures in Ground EMIC Wave Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8358-8376	2.6	2
23	Subpacket structure in strong VLF chorus rising tones: characteristics and consequences for relativistic electron acceleration. <i>Earth, Planets and Space</i> , 2021 , 73, 140	2.9	2
22	Measurability of the Nonlinear Response of Electron Distribution Function to Chorus Emissions in the Earth's Radiation Belt. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029624	2.6	2
21	Nonlinear Wave Growth Analysis of Whistler-Mode Chorus Generation Regions Based on Coupled MHD and Advection Simulation of the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA026951	2.6	1
20	Invariance of parameter identification in multiscales of meta-atoms in metamaterials. <i>Advances in Physics: X</i> , 2018 , 3, 1433551	5.1	1
19	Particle Simulations of Nonlinear Whistler and Alfvén Wave Instabilities: Amplitude Modulation, Decay, Soliton and Inverse Cascading. <i>Geophysical Monograph Series</i> , 2013 , 51-63	1.1	1
18	The theory and numerical modelling of non linear wave particle interactions in oblique whistlers 2011 ,		1
17	Electrostatic solitary waves (ESWs) observed by KAGUYA near the Moon 2011 ,		1
16	On The Propagation And Modulation Of Electrostatic Solitary Waves Observed Near The Magnetopause On Cluster 2011 ,		1

15	Particle-in-cell simulations on antenna characteristics in space plasma		1
14	Antenna analysis in magnetized plasma via particle-in-cell simulation. <i>Advances in Space Research</i> , 2004 , 34, 2433-2436	2.4	1
13	Computer experiments for excitation mechanism of upshifted electromagnetic emission observed in ionospheric heating experiments. <i>Electronics and Communications in Japan</i> , 1995 , 78, 96-106		1
12	Reply [to Comment on Heating of thermal helium in the equatorial magnetosphere: A simulation study] by Y. Omura, M. Ashour-Abdalla, R. Gendrin, and K. Quest. <i>Journal of Geophysical Research</i> , 1986 , 91, 4593		1
11	Localized breaking of parameter uniformity by macroscopically-negative-permeability metamaterial in low-pressure microwave plasma. <i>Plasma Sources Science and Technology</i> , 2020 , 29, 035012	3.5	1
10	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,	4.9	1
9	Parametric study of the resonant scattering process by narrow band whistler mode waves driven by temperature anisotropy. <i>Journal of Plasma Physics</i> , 2006 , 72, 935	2.7	
8	Comments on Electrostatic wave variety and the origin of BEN by C. L. Grabbe, J. D. Menietti. <i>Planetary and Space Science</i> , 2002 , 50, 343-344	2	
7	2fpRadio Source in Geotail Observations and Numerical Simulations ~Microscopic View~. <i>COSPAR Colloquia Series</i> , 2005 , 16, 247-250		
6	Computer experiments on electromagnetic disturbance produced by a spacecraft in a fast plasma flow. <i>Electronics and Communications in Japan</i> , 1993 , 76, 50-60		
5	Electromagnetic and electrostatic emissions from a thin electron beam in space plasma. <i>Computer Physics Communications</i> , 1988 , 49, 133-142	4.2	
4	Multipoint Analysis of Source Regions of EMIC Waves and Rapid Growth of Subpackets. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029514	2.6	
3	Observational Evidence of Dissipative Small Scale Processes: Geotail Spacecraft Observation and Simulation of Electrostatic Solitary Waves 2001 , 45-57		
2	Spacecraft Plasma Environment Analysis Via Large Scale 3D Plasma Particle Simulation. <i>Lecture Notes in Computer Science</i> , 2008 , 383-392	0.9	
1	Nonlinear wave-particle interactions in the Earth's inner magnetosphere: Dynamic variation of the Earth's outer radiation belt due to whistler-mode chorus and EMIC waves. <i>URSI Radio Science Bulletin</i> , 2019 , 2019, 10-16	0.1	