

Gurbax Lakhina

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231
papers

5,263
citations

40
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60
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249
ext. papers

5,833
ext. citations

2.6
avg, IF

5.78
L-index

#	Paper	IF	Citations
231	The extreme magnetic storm of 12 September 1859. <i>Journal of Geophysical Research</i> , 2003 , 108,		339
230	Generation of electron-acoustic waves in the magnetosphere. <i>Planetary and Space Science</i> , 2001 , 49, 107-114	2	174
229	Prompt penetration electric fields (PPEFs) and their ionospheric effects during the great magnetic storm of 30-31 October 2003. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		137
228	Some basic concepts of wave-particle interactions in collisionless plasmas. <i>Reviews of Geophysics</i> , 1997 , 35, 491-501	23.1	130
227	Electron acoustic solitary waves with non-thermal distribution of electrons. <i>Nonlinear Processes in Geophysics</i> , 2004 , 11, 275-279	2.9	110
226	Ion- and electron-acoustic solitons in two-electron temperature space plasmas. <i>Physics of Plasmas</i> , 2008 , 15, 062903	2.1	102
225	A brief review of solar flare effects on the ionosphere. <i>Radio Science</i> , 2009 , 44, n/a-n/a	1.4	94
224	Properties of dayside outer zone chorus during HILDCAA events: Loss of energetic electrons. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		93
223	Magnetosheath and heliosheath mirror mode structures, interplanetary magnetic decreases, and linear magnetic decreases: Differences and distinguishing features. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		91
222	Study of nonlinear ion- and electron-acoustic waves in multi-component space plasmas. <i>Nonlinear Processes in Geophysics</i> , 2008 , 15, 903-913	2.9	87
221	Solitary waves observed in the auroral zone: the Cluster multi-spacecraft perspective. <i>Nonlinear Processes in Geophysics</i> , 2004 , 11, 183-196	2.9	77
220	Plasma waves in the dayside polar cap boundary layer: Bipolar and monopolar electric pulses and whistler mode waves. <i>Geophysical Research Letters</i> , 1998 , 25, 4117-4120	4.9	77
219	Nonlinear Alfvén waves, discontinuities, proton perpendicular acceleration, and magnetic holes/decreases in interplanetary space and the magnetosphere: intermediate shocks?. <i>Nonlinear Processes in Geophysics</i> , 2005 , 12, 321-336	2.9	73
218	Extremely intense ELF magnetosonic waves: A survey of polar observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 964-977	2.6	69
217	Broadband electrostatic noise due to nonlinear electron-acoustic waves. <i>Advances in Space Research</i> , 2001 , 28, 1643-1648	2.4	67
216	Energetic electron (>10 keV) microburst precipitation, ~5-15 s X-ray pulsations, chorus, and wave-particle interactions: A review. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 2296-2312	2.6	59
215	On the generation of solitary waves observed by Cluster in the near-Earth magnetosheath. <i>Nonlinear Processes in Geophysics</i> , 2005 , 12, 181-193	2.9	59

214	Plasmaspheric hiss properties: Observations from Polar. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 414-431	2.6	58
213	Gas-dynamic description of electrostatic solitons. <i>Journal of Plasma Physics</i> , 2004 , 70, 237-250	2.7	57
212	Geomagnetic storms: historical perspective to modern view. <i>Geoscience Letters</i> , 2016 , 3,	3.5	56
211	Anomalous width variation of rarefactive ion acoustic solitary waves in the context of auroral plasmas. <i>Nonlinear Processes in Geophysics</i> , 2004 , 11, 219-228	2.9	56
210	Ion acoustic solitons and supersolitons in a magnetized plasma with nonthermal hot electrons and Boltzmann cool electrons. <i>Physics of Plasmas</i> , 2014 , 21, 082304	2.1	55
209	Generation mechanism for electron acoustic solitary waves. <i>Physics of Plasmas</i> , 2007 , 14, 052305	2.1	55
208	Electron acoustic solitons in the Earth's magnetotail. <i>Nonlinear Processes in Geophysics</i> , 2004 , 11, 215-218	2.9	55
207	Ion acoustic solitons/double layers in two-ion plasma revisited. <i>Physics of Plasmas</i> , 2014 , 21, 062311	2.1	53
206	Electron acoustic solitary waves in the Earth's magnetotail region. <i>Advances in Space Research</i> , 2009 , 43, 1945-1949	2.4	52
205	Necessary conditions for the generation of acoustic solitons in magnetospheric and space plasmas with hot ions. <i>Astrophysics and Space Sciences Transactions</i> , 2007 , 3, 15-20		52
204	Ion-acoustic supersolitons in the presence of non-thermal electrons. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015 , 23, 274-281	3.7	50
203	Ion- and electron-acoustic solitons and double layers in multi-component space plasmas. <i>Advances in Space Research</i> , 2011 , 47, 1558-1567	2.4	50
202	Phase-steepened Alfvén waves, proton perpendicular energization and the creation of magnetic holes and magnetic decreases: The ponderomotive force. <i>Geophysical Research Letters</i> , 2002 , 29, 86-1-86-4	4.9	50
201	Furthering our understanding of electrostatic solitary waves through Cluster multispacecraft observations and theory. <i>Advances in Space Research</i> , 2008 , 41, 1666-1676	2.4	48
200	Electron acoustic solitary waves with kappa-distributed electrons. <i>Physica Scripta</i> , 2011 , 84, 025507	2.6	47
199	Existence domains of dust-acoustic solitons and supersolitons. <i>Physics of Plasmas</i> , 2013 , 20, 083705	2.1	46
198	A mechanism for electrostatic solitary structures in the Earth's magnetosheath. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		46
197	Alfvénic Solitons in Ultrarelativistic Electron-Positron Plasmas. <i>Astrophysics and Space Science</i> , 1997 , 253, 97-106	1.6	46

196	Low-frequency electrostatic noise due to velocity shear instabilities in the regions of magnetospheric flow boundaries. <i>Journal of Geophysical Research</i> , 1987 , 92, 12161		46
195	An extreme coronal mass ejection and consequences for the magnetosphere and Earth. <i>Geophysical Research Letters</i> , 2014 , 41, 287-292	4.9	45
194	Relationship between discontinuities, magnetic holes, magnetic decreases, and nonlinear Alfvén waves: Ulysses observations over the solar poles. <i>Geophysical Research Letters</i> , 2002 , 29, 23-1	4.9	45
193	Ion acoustic double layers and solitons in auroral plasma. <i>Planetary and Space Science</i> , 1991 , 39, 1343-1350		44
192	Pitch angle transport of electrons due to cyclotron interactions with the coherent chorus subelements. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		42
191	Low frequency solitons and double layers in a magnetized plasma with two temperature electrons. <i>Physics of Plasmas</i> , 2012 , 19, 122308	2.1	40
190	Properties of obliquely propagating chorus. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		39
189	Electrostatic solitary structures in presence of non-thermal electrons and a warm electron beam on the auroral field lines. <i>Physics of Plasmas</i> , 2011 , 18, 122306	2.1	39
188	Heliospheric plasma sheet (HPS) impingement onto the magnetosphere as a cause of relativistic electron dropouts (REDs) via coherent EMIC wave scattering with possible consequences for climate change mechanisms. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 10,130-10,156	2.6	39
187	Quasi-coherent chorus properties: 1. Implications for wave-particle interactions. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		38
186	Ion-acoustic double layers and solitons in multispecies auroral beam-plasmas. <i>Planetary and Space Science</i> , 1992 , 40, 1055-1062	2	37
185	A Review of Alfvénic Turbulence in High-Speed Solar Wind Streams: Hints From Cometary Plasma Turbulence. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 2458-2492	2.6	35
184	Effect of ion temperature on ion-acoustic solitary waves in a magnetized plasma in presence of superthermal electrons. <i>Physics of Plasmas</i> , 2013 , 20, 012306	2.1	35
183	The January 10, 1997 auroral hot spot, horseshoe aurora and first substorm: A CME loop?. <i>Geophysical Research Letters</i> , 1998 , 25, 3047-3050	4.9	35
182	Generation of a d.c. field by nonlinear electromagnetic waves in relativistic plasmas. <i>Astrophysics and Space Science</i> , 1981 , 79, 25-36	1.6	35
181	No electrostatic supersolitons in two-component plasmas. <i>Physics of Plasmas</i> , 2014 , 21, 062303	2.1	34
180	Electron acoustic solitons in the presence of an electron beam and superthermal electrons. <i>Nonlinear Processes in Geophysics</i> , 2011 , 18, 627-634	2.9	33
179	Arbitrary amplitude dust-acoustic double layers in a non-thermal plasma. <i>Journal of Plasma Physics</i> , 2006 , 72, 43	2.7	32

178	Dromion solutions for nonlinear electron acoustic waves in space plasmas. <i>Nonlinear Processes in Geophysics</i> , 2002 , 9, 463-475	2.9	32
177	Broadband plasma waves in the boundary layers. <i>Journal of Geophysical Research</i> , 2000 , 105, 27791-27831		32
176	Electron acoustic waves in a magnetized plasma with kappa distributed ions. <i>Physics of Plasmas</i> , 2012 , 19, 082314	2.1	31
175	Interplanetary Shocks, Magnetopause Boundary Layers and Dayside Auroras: The Importance of a Very Small Magnetospheric Region. <i>Surveys in Geophysics</i> , 2001 , 22, 101-130	7.6	31
174	Obliquely propagating ion-acoustic solitons and supersolitons in four-component auroral plasmas. <i>Advances in Space Research</i> , 2016 , 57, 813-820	2.4	30
173	A review of nonlinear fluid models for ion-and electron-acoustic solitons and double layers: Application to weak double layers and electrostatic solitary waves in the solar wind and the lunar wake. <i>Physics of Plasmas</i> , 2018 , 25, 080501	2.1	30
172	Generation of electrostatic solitary waves in the plasma sheet boundary layer. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		29
171	Some characteristics of intense geomagnetic storms and their energy budget. <i>Journal of Geophysical Research</i> , 2005 , 110,		29
170	Electromagnetic cyclotron waves in the dayside subsolar outer magnetosphere generated by enhanced solar wind pressure: EMIC wave coherency. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 7536-7551	2.6	28
169	Mirror mode structures and ELF plasma waves in the Giacobini-Zinner magnetosheath. <i>Nonlinear Processes in Geophysics</i> , 1999 , 6, 229-234	2.9	28
168	Effect of excess superthermal hot electrons on finite amplitude ion-acoustic solitons and supersolitons in a magnetized auroral plasma. <i>Physics of Plasmas</i> , 2015 , 22, 102305	2.1	27
167	Dayside ELF electromagnetic wave survey: A Polar statistical study of chorus and hiss. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		27
166	Existence domains of arbitrary amplitude nonlinear structures in two-electron temperature space plasmas. I. Low-frequency ion-acoustic solitons. <i>Physics of Plasmas</i> , 2012 , 19, 072320	2.1	26
165	Small amplitude electron acoustic solitary waves in a magnetized superthermal plasma. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015 , 22, 1322-1330	3.7	25
164	Ion temperature anisotropy instabilities in planetary magnetosheaths. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 785-793	2.6	25
163	Parametric analysis of positive amplitude electron acoustic solitary waves in a magnetized plasma and its application to boundary layers. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		25
162	The physics of space weather/solar-terrestrial physics (STP): what we know now and what the current and future challenges are. <i>Nonlinear Processes in Geophysics</i> , 2020 , 27, 75-119	2.9	24
161	Energetic particle cross-field diffusion: Interaction with Magnetic Decreases (MDs). <i>Nonlinear Processes in Geophysics</i> , 1999 , 6, 235-242	2.9	24

160	Spiky parallel electrostatic ion cyclotron and ion acoustic waves. <i>Nonlinear Processes in Geophysics</i> , 2002 , 9, 25-29	2.9	23
159	Electromagnetic and β -effects on the modified two-stream instability. <i>Nuclear Fusion</i> , 1973 , 13, 913-917	3.3	23
158	Occurrence of electrostatic solitary waves in the lunar wake. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9134-9147	2.6	22
157	Alfvén modes in dusty cometary and planetary plasmas. <i>Planetary and Space Science</i> , 1996 , 44, 129-135	2	22
156	Generation of ULF waves in the polar cusp region by velocity shear-driven kinetic Alfvén modes. <i>Astrophysics and Space Science</i> , 1990 , 165, 153-161	1.6	22
155	Generation of Weak Double Layers and Low-Frequency Electrostatic Waves in the Solar Wind. <i>Solar Physics</i> , 2015 , 290, 3033-3049	2.6	21
154	Rapid evolution of magnetic decreases (MDs) and discontinuities in the solar wind: ACE and Cluster. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	21
153	Broadband plasma waves observed in the polar cap boundary layer: Polar. <i>Journal of Geophysical Research</i> , 1998 , 103, 17351-17366		21
152	Low-frequency plasma turbulence during solar wind-comet interaction. <i>Astrophysics and Space Science</i> , 1987 , 133, 203-218	1.6	21
151	Existence domains of slow and fast ion-acoustic solitons in two-ion space plasmas. <i>Physics of Plasmas</i> , 2015 , 22, 032313	2.1	20
150	Magnetic field turbulence, electron heating, magnetic holes, proton cyclotron waves, and the onsets of bipolar pulse (electron hole) events: a possible unifying scenario. <i>Nonlinear Processes in Geophysics</i> , 2003 , 10, 27-35	2.9	20
149	A kinetic theory of driven reconnection in the Earth's magnetotail. <i>Journal of Geophysical Research</i> , 1992 , 97, 2961-2972		20
148	Nonresonant low-frequency instabilities in multibeam plasmas: Applications to cometary environments and plasma sheet boundary layers. <i>Journal of Geophysical Research</i> , 1991 , 96, 7905		20
147	Electron acoustic solitary waves in a magnetized plasma with nonthermal electrons and an electron beam. <i>Physics of Plasmas</i> , 2016 , 23, 082310	2.1	20
146	Existence domain of electrostatic solitary waves in the lunar wake. <i>Physics of Plasmas</i> , 2018 , 25, 032302	2.1	19
145	Mirror instability upstream of the termination shock (TS) and in the heliosheath. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011 , 73, 1398-1404	2	19
144	Nonlinear evolution of Alfvénic wave packets. <i>Geophysical Research Letters</i> , 1998 , 25, 2377-2380	4.9	19
143	Oblique solitary Alfvén modes in relativistic electron-positron plasmas. <i>Astrophysics and Space Science</i> , 1996 , 240, 215-224	1.6	19

142	Effect of hot ion temperature on obliquely propagating ion-acoustic solitons and double layers in an auroral plasma. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014 , 19, 1338-1346	3.7	18
141	Existence domains of arbitrary amplitude nonlinear structures in two-electron temperature space plasmas. II. High-frequency electron-acoustic solitons. <i>Physics of Plasmas</i> , 2012 , 19, 122301	2.1	18
140	Extreme changes in the dayside ionosphere during a Carrington-type magnetic storm. <i>Journal of Space Weather and Space Climate</i> , 2012 , 2, A05	2.5	18
139	Alfvén wave instabilities and ring current during solar wind-comet interaction. <i>Astrophysics and Space Science</i> , 1988 , 143, 329-338	1.6	17
138	Comment on "Storming the Bastille: the effect of electric fields on the ionospheric F-layer" by Rishbeth et al. (2010). <i>Annales Geophysicae</i> , 2013 , 31, 145-150	2	16
137	Supermagnetic Storms: Hazard to Society. <i>Geophysical Monograph Series</i> , 2012 , 267-278	1.1	16
136	Stability of solar wind double ion streams. <i>Journal of Geophysical Research</i> , 1976 , 81, 2135-2139		16
135	LARGE-AMPLITUDE, CIRCULARLY POLARIZED, COMPRESSIVE, OBLIQUELY PROPAGATING ELECTROMAGNETIC PROTON CYCLOTRON WAVES THROUGHOUT THE EARTH'S MAGNETOSHEATH: LOW PLASMA β CONDITIONS. <i>Astrophysical Journal</i> , 2014 , 793, 6	4.7	15
134	Two sources of dayside intense, quasi-coherent plasmaspheric hiss: A new mechanism for the slot region?. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1643-1657	2.6	15
133	Electrostatic solitary waves in current layers: from Cluster observations during a super-substorm to beam experiments at the LAPD. <i>Nonlinear Processes in Geophysics</i> , 2009 , 16, 431-442	2.9	15
132	Helicon modes driven by ionospheric O ⁺ ions in the plasma sheet region. <i>Geophysical Research Letters</i> , 1997 , 24, 1463-1466	4.9	15
131	Comment on "Comment on the abundances of rotational and tangential discontinuities in the solar wind" by M. Neugebauer. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		15
130	Reply to comment by S.-I. Akasofu and Y. Kamide on "The extreme magnetic storm of 12 September 1859" <i>Journal of Geophysical Research</i> , 2005 , 110,		15
129	The Effect of Dust Grain Temperature and Dust Streaming on Electrostatic Solitary Structures in a Non-Thermal Plasma. <i>Physica Scripta</i> , 2004 , T113, 135-140	2.6	15
128	Coupling of electrostatic ion cyclotron and ion acoustic waves in the solar wind. <i>Physics of Plasmas</i> , 2016 , 23, 082901	2.1	15
127	Existence domains of electrostatic solitary structures in the solar wind plasma. <i>Physics of Plasmas</i> , 2016 , 23, 062902	2.1	15
126	Magnetic decrease formation from . <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		14
125	Parallel electric field structures associated with the low-frequency oscillations in the auroral plasma. <i>Earth, Planets and Space</i> , 2006 , 58, 1227-1232	2.9	14

124	Nonlinear low frequency electrostatic structures in a magnetized two-component auroral plasma. <i>Physics of Plasmas</i> , 2016 , 23, 032309	2.1	14
123	Critical Issues on Magnetic Reconnection in Space Plasmas. <i>Space Science Reviews</i> , 2005 , 116, 497-521	7.5	13
122	Evolution of electron beam generated waves resulting in transverse ion heating and filamentation of the plasma. <i>Journal of Geophysical Research</i> , 2001 , 106, 21165-21181		13
121	Collisionless tearing modes in the presence of shear flow. <i>Astrophysics and Space Science</i> , 1983 , 89, 293-300		13
120	Plasmaspheric Hiss: Coherent and Intense. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 10,009-10,029	2.6	13
119	Supergeomagnetic Storms: Past, Present, and Future 2018 , 157-185		12
118	Comment on Modeling Extreme Carrington-Type Space Weather Events Using Three-Dimensional Global MHD Simulations by C. M. Ngwira, A. Pulkkinen, M. M. Kuznetsova, and A. Glozer <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1388-1392	2.6	12
117	Some theoretical models for solitary structures of boundary layer waves. <i>Nonlinear Processes in Geophysics</i> , 2003 , 10, 65-73	2.9	12
116	Non-linear high-frequency waves in the magnetosphere 2003 , 61, 1209-1214		12
115	Large-amplitude low-frequency electromagnetic waves in pulsar magnetospheres. <i>Astrophysics and Space Science</i> , 1990 , 174, 143-150	1.6	12
114	Coherent generation mechanism for auroral kilometric radiation. <i>Journal of Geophysical Research</i> , 1985 , 90, 2785		12
113	Lower-Band Monochromatic Chorus Riser Subelement/Wave Packet Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028090	2.6	12
112	Arbitrary amplitude slow electron-acoustic solitons in three-electron temperature space plasmas. <i>Physics of Plasmas</i> , 2015 , 22, 062307	2.1	11
111	Electrostatic waves driven by electron beam in lunar wake plasma. <i>Physics of Plasmas</i> , 2018 , 25, 052902	2.1	11
110	Nonlinear low-frequency structures in the auroral plasma in the presence of an oxygen beam including charge separation. <i>Physics of Plasmas</i> , 2010 , 17, 022903	2.1	11
109	Nonlinear electromagnetic waves and spherical arc-polarized waves in space plasmas. <i>Plasma Physics and Controlled Fusion</i> , 1997 , 39, A237-A250	2	11
108	Magnetic stabilization of transverse plasma instabilities <i>Journal of Plasma Physics</i> , 1971 , 5, 467-474	2.7	11
107	Linear electrostatic waves in two-temperature electron-positron plasmas. <i>Journal of Plasma Physics</i> , 2012 , 78, 621-628	2.7	10

106	An explanation for high-frequency broadband electrostatic noise in the Earth's magnetosphere. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		10
105	The effects of plasma sheet boundary flow and plasma mantle flow on the ion tearing instability. <i>Journal of Geophysical Research</i> , 1988 , 93, 8591		10
104	Regulation of solar wind heat flux by ordinary mode instability. <i>Solar Physics</i> , 1977 , 52, 153-162	2.6	10
103	Arbitrary amplitude fast electron-acoustic solitons in three-electron component space plasmas. <i>Physics of Plasmas</i> , 2016 , 23, 062302	2.1	10
102	Kinetic Alfvén waves generated by ion beam and velocity shear in the Earth's magnetosphere. <i>Physics of Plasmas</i> , 2019 , 26, 022901	2.1	9
101	Theoretical analysis of Poynting flux and polarization for ELF-VLF electromagnetic waves in the Earth's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 7695-7702	2.6	9
100	Arbitrary amplitude solitary waves in plasmas with dust grains of opposite polarity and non-thermal ions. <i>Journal of Plasma Physics</i> , 2010 , 76, 441-451	2.7	9
99	Association of Alfvén waves and proton cyclotron waves with electrostatic bipolar pulses: magnetic hole events observed by Polar. <i>Nonlinear Processes in Geophysics</i> , 2004 , 11, 205-213	2.9	9
98	Ion and electron heating in the earth's bow shock region. <i>Journal of Plasma Physics</i> , 1977 , 17, 133-138	2.7	9
97	Magnetic Decreases (MDs) and mirror modes: two different plasma changing mechanisms. <i>Nonlinear Processes in Geophysics</i> , 2010 , 17, 467-479	2.9	8
96	Generation of kinetic Alfvén waves by velocity shear instability on auroral field lines. <i>Advances in Space Research</i> , 2008 , 41, 1688-1694	2.4	8
95	Dromion solutions for an electron acoustic wave and its application to space observations 2000 , 55, 693-698		8
94	On the ion-tearing instability of forced current sheets. <i>Journal of Geophysical Research</i> , 1993 , 98, 17409		8
93	Ballooning instability of the Earth's plasma sheet region in the presence of parallel flow. <i>Journal of Geophysical Research</i> , 1990 , 95, 10441		8
92	Electromagnetic instabilities in non-uniform anisotropic plasmas. <i>Journal of Plasma Physics</i> , 1973 , 10, 249-263	2.7	8
91	Broadband electrostatic noise and low-frequency waves in the Earth's magnetosphere. <i>Advances in Space Research</i> , 2009 , 43, 1940-1944	2.4	7
90	A generation mechanism for the polar cap boundary layer broadband plasma waves. <i>Journal of Geophysical Research</i> , 1999 , 104, 279-291		7
89	Solar wind-magnetosphere-ionosphere coupling and chaotic dynamics. <i>Surveys in Geophysics</i> , 1994 , 15, 703-754	7.6	7

88	Nonlinear propagation of Alfvén waves in cometary plasmas. <i>Astrophysics and Space Science</i> , 1987 , 139, 275-279	1.6	7
87	Tearing modes in the magnetopause current sheet. <i>Astrophysics and Space Science</i> , 1983 , 97, 421-426	1.6	7
86	Satellite drag effects due to uplifted oxygen neutrals during super magnetic storms. <i>Nonlinear Processes in Geophysics</i> , 2017 , 24, 745-750	2.9	7
85	Comment on Effects of electron temperature anisotropy on proton mirror instability evolution by Ahmadi et al. (2016). <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 745-747	2.6	6
84	CROSS-FIELD DIFFUSION OF ENERGETIC (100 keV to 2 MeV) PROTONS IN INTERPLANETARY SPACE. <i>Astrophysical Journal</i> , 2013 , 778, 180	4.7	6
83	Low-latitude geomagnetic response to the interplanetary conditions during very intense magnetic storms. <i>Advances in Space Research</i> , 2009 , 43, 1575-1587	2.4	6
82	Arbitrary amplitude Langmuir solitons in a relativistic electron-positron plasma. <i>Journal of Plasma Physics</i> , 2012 , 78, 175-180	2.7	6
81	Electrostatic solitary waves in a magnetized dusty plasma. <i>Physics of Plasmas</i> , 2008 , 15, 113701	2.1	6
80	Localized Multi-Dimensional Coherent Structures in Space and Laboratory Plasmas. <i>Physica Scripta</i> , 2004 , T107, 176	2.6	6
79	Low-frequency instabilities due to energetic oxygen ions. <i>Journal of Plasma Physics</i> , 2004 , 70, 613-623	2.7	6
78	Source of bursty radio emissions from Uranus. <i>Geophysical Research Letters</i> , 1988 , 15, 1149-1152	4.9	6
77	Instability near proton-cyclotron harmonics due to anti-loss cone proton distributions. <i>Astrophysics and Space Science</i> , 1980 , 68, 175-182	1.6	6
76	Drift Instabilities in Nonuniform Streaming Plasmas. <i>Physical Review A</i> , 1973 , 7, 319-327	2.6	6
75	Low Frequency Nonlinear Waves in the Auroral Plasma. <i>Physica Scripta</i> , 2001 , T98, 137	2.6	6
74	Electrostatic Solitary Structures in Space Plasmas: Soliton Perspective. <i>Plasma</i> , 2021 , 4, 681-731	1.7	6
73	Low Frequency (f Journal of Geophysical Research: Space Physics, 2019 , 124, 10063-10084	2.6	6
72	Do nonlinear waves evolve in a universal manner in dusty and other plasma environments?. <i>Journal of Plasma Physics</i> , 2014 , 80, 825-832	2.7	5
71	Response of the low latitude geomagnetic field to the major proton event of November 2001. <i>Advances in Space Research</i> , 2005 , 36, 2434-2439	2.4	5

70	Oblique non-neutral solitary Alfvén modes in weakly nonlinear pair plasmas. <i>New Journal of Physics</i> , 2005 , 7, 94-94	2.9	5
69	Resonant electromagnetic ion-ion beam turbulence at comet P/Grigg-Skjellerup. <i>Journal of Geophysical Research</i> , 1993 , 98, 21017-21021		5
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