

Umran S Inan

List of Publications by Year in descending order

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313
papers

13,601
citations

19657

61
h-index

36028

97
g-index

316
all docs

316
docs citations

316
times ranked

3878
citing authors

#	ARTICLE	IF	CITATIONS
1	Wave acceleration of electrons in the Van Allen radiation belts. <i>Nature</i> , 2005, 437, 227-230.	27.8	505
2	Sprites produced by quasi-electrostatic heating and ionization in the lower ionosphere. <i>Journal of Geophysical Research</i> , 1997, 102, 4529-4561.	3.3	386
3	Electrical discharge from a thundercloud top to the lower ionosphere. <i>Nature</i> , 2002, 416, 152-154.	27.8	301
4	Elves: Lightning-induced transient luminous events in the lower ionosphere. <i>Geophysical Research Letters</i> , 1996, 23, 2157-2160.	4.0	252
5	Spatial structure of sprites. <i>Geophysical Research Letters</i> , 1998, 25, 2123-2126.	4.0	214
6	Nonlinear interaction of energetic electrons with large amplitude chorus. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	201
7	Identification of sprites and elves with intensified video and broadband array photometry. <i>Journal of Geophysical Research</i> , 2001, 106, 1741-1750.	3.3	195
8	Sensitive Broadband ELF/VLF Radio Reception With the AWESOME Instrument. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 3-17.	6.3	193
9	Heating, ionization and upward discharges in the mesosphere, due to intense quasi-electrostatic thundercloud fields. <i>Geophysical Research Letters</i> , 1995, 22, 365-368.	4.0	188
10	Ionospheric Region remote sensing using VLF radio atmospheric. <i>Radio Science</i> , 1998, 33, 1781-1792.	1.6	184
11	Heating and ionization of the lower ionosphere by lightning. <i>Geophysical Research Letters</i> , 1991, 18, 705-708.	4.0	176
12	Lightning-induced electron precipitation. <i>Nature</i> , 1984, 312, 740-742.	27.8	157
13	Telescopic imaging of sprites. <i>Geophysical Research Letters</i> , 2000, 27, 2637-2640.	4.0	155
14	Highly intense lightning over the oceans: Estimated peak currents from global GLD360 observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6905-6915.	3.3	154
15	ELF radiation produced by electrical currents in sprites. <i>Geophysical Research Letters</i> , 1998, 25, 1281-1284.	4.0	152
16	Long-range lightning geolocation using a VLF radio atmospheric waveform bank. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	152
17	A survey of ELF and VLF research on lightning-ionosphere interactions and causative discharges. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	146
18	Global response of the plasmasphere to a geomagnetic disturbance. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	144

#	ARTICLE	IF	CITATIONS
19	On the association of terrestrial gamma-ray bursts with lightning and implications for sprites. <i>Geophysical Research Letters</i> , 1996, 23, 1017-1020.	4.0	140
20	Interaction with the lower ionosphere of electromagnetic pulses from lightning: Heating, attachment, and ionization. <i>Geophysical Research Letters</i> , 1993, 20, 1539-1542.	4.0	139
21	Source characteristics of ELF/VLF chorus. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 10-1-SMP 10-17.	3.3	128
22	Lightning as an embryonic source of VLF hiss. <i>Journal of Geophysical Research</i> , 1989, 94, 6986-6994.	3.3	114
23	Rapid lateral expansion of optical luminosity in lightning-induced ionospheric flashes referred to as 'elves'. <i>Geophysical Research Letters</i> , 1997, 24, 583-586.	4.0	111
24	The link between a detached subauroral proton arc and a plasmaspheric plume. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	109
25	Direct observation of radiation belt electrons precipitated by the controlled injection of VLF signals from a ground-based transmitter. <i>Geophysical Research Letters</i> , 1983, 10, 361-364.	4.0	102
26	Runaway electrons as a source of red sprites in the mesosphere. <i>Geophysical Research Letters</i> , 1995, 22, 2127-2130.	4.0	102
27	Controlled precipitation of radiation belt electrons. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	102
28	Space-time structure of optical flashes and ionization changes produced by lightning-EMP. <i>Geophysical Research Letters</i> , 1996, 23, 133-136.	4.0	101
29	Elves triggered by positive and negative lightning discharges. <i>Geophysical Research Letters</i> , 1999, 26, 683-686.	4.0	101
30	Radiation of ELF/VLF waves by harmonically varying currents into a stratified ionosphere with application to radiation by a modulated electrojet. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	98
31	Modeling ELF radio atmospheric propagation and extracting lightning currents from ELF observations. <i>Radio Science</i> , 2000, 35, 385-394.	1.6	94
32	VLF signatures of ionospheric disturbances associated with sprites. <i>Geophysical Research Letters</i> , 1995, 22, 3461-3464.	4.0	93
33	Measurement of charge transfer in sprite-producing lightning using ELF radio atmospherics. <i>Geophysical Research Letters</i> , 1997, 24, 1731-1734.	4.0	93
34	Sprites triggered by negative lightning discharges. <i>Geophysical Research Letters</i> , 1999, 26, 3605-3608.	4.0	92
35	Constraints on terrestrial gamma ray flash production from satellite observation. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	89
36	Electron precipitation zones around major ground-based VLF signal sources. <i>Journal of Geophysical Research</i> , 1984, 89, 2891-2906.	3.3	87

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37	Magnetospherically reflected whistlers as a source of plasmaspheric hiss. Geophysical Research Letters, 1992, 19, 233-236.	4.0	86
38	Sprites as luminous columns of ionization produced by quasi-electrostatic thundercloud fields. Geophysical Research Letters, 1996, 23, 649-652.	4.0	84
39	Plasma wave observations with the Dynamics Explorer 1 spacecraft. Reviews of Geophysics, 1988, 26, 285-316.	23.0	83
40	The interaction with the lower ionosphere of electromagnetic pulses from lightning: Excitation of optical emissions. Geophysical Research Letters, 1993, 20, 2675-2678.	4.0	83
41	VLF signatures of lightning-induced heating and ionization of the nighttime D-region. Geophysical Research Letters, 1993, 20, 2355-2358.	4.0	82
42	Co-ordinated observations of transient luminous events during the EuroSprite2003 campaign. Journal of Atmospheric and Solar-Terrestrial Physics, 2005, 67, 807-820.	1.6	81
43	Evidence for continuing current in sprite-producing cloud-to-ground lightning. Geophysical Research Letters, 1996, 23, 3639-3642.	4.0	80
44	Mechanism of ELF radiation from sprites. Geophysical Research Letters, 1998, 25, 3493-3496.	4.0	79
45	Observations of the relationship between sprite morphology and in-cloud lightning processes. Journal of Geophysical Research, 2006, 111, .	3.3	79
46	Full-wave modeling of transionospheric propagation of VLF waves. Geophysical Research Letters, 2009, 36, .	4.0	76
47	Sustained heating of the ionosphere above thunderstorms as evidenced in early/fast VLF events. Geophysical Research Letters, 1996, 23, 1067-1070.	4.0	74
48	Fractal structure of sprites. Geophysical Research Letters, 2000, 27, 497-500.	4.0	72
49	LEAP: Layout Design through Error-Aware Transistor Positioning for soft-error resilient sequential cell design. , 2010, , .		72
50	Precipitation of radiation belt electrons by man-made waves: A comparison between theory and measurement. Journal of Geophysical Research, 1985, 90, 359-369.	3.3	70
51	Landau damping and resultant unidirectional propagation of chorus waves. Geophysical Research Letters, 2006, 33, .	4.0	70
52	The apparent spectral broadening of VLF transmitter signals during transionospheric propagation. Journal of Geophysical Research, 1983, 88, 4813-4840.	3.3	69
53	Intense continuing currents following positive cloud-to-ground lightning associated with red sprites. Geophysical Research Letters, 1998, 25, 1285-1288.	4.0	69
54	Terrestrial gamma ray flash production by active lightning leader channels. Journal of Geophysical Research, 2010, 115, .	3.3	69

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55	ULF magnetic signatures at the Earth surface due to ground water flow: A possible precursor to earthquakes. <i>Geophysical Research Letters</i> , 1991, 18, 1127-1130.	4.0	68
56	Wave normal angles of magnetospheric chorus emissions observed on the Polar spacecraft. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	68
57	Subionospheric early VLF signal perturbations observed in one-to-one association with sprites. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	66
58	VLF heating of the lower ionosphere. <i>Geophysical Research Letters</i> , 1990, 17, 729-732.	4.0	65
59	A multiple-mode three-dimensional model of VLF propagation in the Earth's ionosphere waveguide in the presence of localized D region disturbances. <i>Journal of Geophysical Research</i> , 1993, 98, 1705-1717.	3.3	65
60	$\hat{\nu}$ -Ray emission produced by a relativistic beam of runaway electrons accelerated by quasi-electrostatic thundercloud fields. <i>Geophysical Research Letters</i> , 1996, 23, 2645-2648.	4.0	65
61	Temporal signatures of radiation belt electron precipitation induced by lightning-generated MR whistler waves: 1. Methodology. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	65
62	A two-dimensional model of runaway electron beams driven by quasi-electrostatic thundercloud fields. <i>Geophysical Research Letters</i> , 1997, 24, 2639-2642.	4.0	62
63	Ionization of the lower ionosphere by $\hat{\nu}$ -rays from a Magnetar: Detection of a low energy (3-10 keV) component. <i>Geophysical Research Letters</i> , 1999, 26, 3357-3360.	4.0	62
64	Frequency-time spectra of magnetospherically reflecting whistlers in the plasmasphere. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	62
65	Scattering pattern of lightning-induced ionospheric disturbances associated with early/fast VLF events. <i>Geophysical Research Letters</i> , 1999, 26, 2363-2366.	4.0	61
66	Blue jets produced by quasi-electrostatic pre-discharge thundercloud fields. <i>Geophysical Research Letters</i> , 1996, 23, 301-304.	4.0	60
67	Terrestrial gamma ray flashes and lightning discharges. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	59
68	Possible persistent ionization caused by giant blue jets. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	59
69	Observation of an ionospheric disturbance caused by a gamma-ray burst. <i>Nature</i> , 1988, 331, 418-420.	27.8	58
70	DEMETER satellite observations of lightning-induced electron precipitation. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	58
71	Terrestrial VLF transmitter injection into the magnetosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	57
72	Terrestrial gamma ray flash production by lightning current pulses. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	56

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73	Elves and associated electron density changes due to cloud-to-ground and in-cloud lightning discharges. Journal of Geophysical Research, 2010, 115, .	3.3	56
74	Lightning-associated precipitation of MeV electrons from the inner radiation belt. Geophysical Research Letters, 1988, 15, 172-175.	4.0	55
75	Small-scale field-aligned plasmaspheric density structures inferred from the Radio Plasma Imager on IMAGE. Journal of Geophysical Research, 2002, 107, SMP 22-1.	3.3	55
76	Source regions of banded chorus. Geophysical Research Letters, 2009, 36, .	4.0	55
77	ELF waves generated by modulated HF heating of the auroral electrojet and observed at a ground distance of ~ 4400 km. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	52
78	Early/fast VLF events produced by electron density changes associated with sprite halos. Journal of Geophysical Research, 2003, 108, .	3.3	51
79	Gyroresonant pitch angle scattering by coherent and incoherent whistler mode waves in the magnetosphere. Journal of Geophysical Research, 1987, 92, 127-142.	3.3	50
80	Whistler-mode chorus and morningside aurorae. Geophysical Research Letters, 1992, 19, 653-656.	4.0	50
81	Neutron production in terrestrial gamma ray flashes. Journal of Geophysical Research, 2010, 115, .	3.3	50
82	Distributing space weather monitoring instruments and educational materials worldwide for IHY 2007: The AWESOME and SID project. Advances in Space Research, 2008, 42, 1777-1785.	2.6	49
83	Recovery signatures of lightning-associated VLF perturbations as a measure of the lower ionosphere. Journal of Geophysical Research, 1994, 99, 17523.	3.3	48
84	A survey of streamer and diffuse glow dynamics observed in sprites using telescopic imagery. Journal of Geophysical Research, 2002, 107, SIA 4-1.	3.3	48
85	Energy distribution and lifetime of magnetospherically reflecting whistlers in the plasmasphere. Journal of Geophysical Research, 2003, 108, .	3.3	48
86	Terrestrial gamma ray flashes observed aboard the Compton Gamma Ray Observatory/Burst and Transient Source Experiment and ELF/VLF radio atmospherics. Journal of Geophysical Research, 2006, 111, .	3.3	48
87	Analysis of experimentally validated trans-ionospheric attenuation estimates of VLF signals. Journal of Geophysical Research: Space Physics, 2013, 118, 2708-2720.	2.4	48
88	VLF chorus emissions observed by Polar during the January 10, 1997, magnetic cloud. Geophysical Research Letters, 1998, 25, 2995-2998.	4.0	47
89	Perturbations of midlatitude subionospheric VLF signals associated with lower ionospheric disturbances during major geomagnetic storms. Journal of Geophysical Research, 2006, 111, .	3.3	47
90	Early/slow events: A new category of VLF perturbations observed in relation with sprites. Journal of Geophysical Research, 2006, 111, .	3.3	47

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91	Geolocation of terrestrial gamma-ray flash source lightning. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	46
92	Multi-hop whistler-mode ELF/VLF signals and triggered emissions excited by the HAARP HF heater. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	45
93	DEMETER observations of an intense upgoing column of ELF/VLF radiation excited by the HAARP HF heater. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	45
94	Propagation of unducted whistlers from their source lightning: A case study. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	45
95	Latitudinal and seasonal variations of quasiperiodic and periodic VLF emissions in the outer magnetosphere. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	44
96	Production of terrestrial gamma-ray flashes by an electromagnetic pulse from a lightning return stroke. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	44
97	Precipitation signatures of ground-based VLF transmitters. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	44
98	Models of ionospheric VLF absorption of powerful ground based transmitters. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	44
99	Subionospheric VLF signatures of oblique (nonducted) whistler-induced precipitation. <i>Geophysical Research Letters</i> , 1999, 26, 3569-3572.	4.0	43
100	Observations of decameter-scale morphologies in sprites. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2003, 65, 567-572.	1.6	43
101	Perturbations of subionospheric LF and MF signals due to whistler-induced electron precipitation bursts. <i>Journal of Geophysical Research</i> , 1984, 89, 9857-9862.	3.3	42
102	Sprites as evidence of vertical gravity wave structures above mesoscale thunderstorms. <i>Geophysical Research Letters</i> , 1997, 24, 1735-1738.	4.0	41
103	Characteristics of mesospheric optical emissions produced by lightning discharges. <i>Journal of Geophysical Research</i> , 1999, 104, 12645-12656.	3.3	41
104	Subionospheric VLF observations of transmitter-induced precipitation of inner radiation belt electrons. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	41
105	Early VLF perturbations caused by lightning EMP-driven dissociative attachment. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	41
106	Magnetospheric amplification and emission triggering by ELF/VLF waves injected by the 3.6 MW HAARP ionospheric heater. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	41
107	The modulated precipitation of radiation belt electrons by controlled signals from VLF transmitters. <i>Geophysical Research Letters</i> , 1983, 10, 615-618.	4.0	40
108	On the generation of ELF/VLF waves for long-distance propagation via steerable HF heating of the lower ionosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	40

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109	High-speed telescopic imaging of sprites. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	39
110	Subionospheric VLF signatures and their association with sprites observed during EuroSprite-2003. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2005, 67, 1580-1597.	1.6	39
111	Long-lasting D-region ionospheric modifications, caused by intense lightning in association with elve and sprite pairs. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	38
112	Trapped energetic electron curtains produced by thunderstorm driven relativistic runaway electrons. <i>Geophysical Research Letters</i> , 2000, 27, 1095-1098.	4.0	37
113	Z-mode sounding within propagation cavities and other inner magnetospheric regions by the RPI instrument on the IMAGE satellite. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	37
114	D-region ionosphere response to the total solar eclipse of 22 July 2009 deduced from ELF-VLF tweek observations in the Indian sector. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	37
115	Nighttime D region electron density measurements from ELF-VLF tweek radio atmospherics recorded at low latitudes. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	37
116	ELF spheric energy as a proxy indicator for sprite occurrence. <i>Geophysical Research Letters</i> , 1999, 26, 987-990.	4.0	36
117	Poleward-displaced electron precipitation from lightning-generated oblique whistlers. <i>Geophysical Research Letters</i> , 1999, 26, 2633-2636.	4.0	36
118	DEMETER observations of ELF waves injected with the HAARP HF transmitter. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	36
119	On the association of early/fast very low frequency perturbations with sprites and rare examples of VLF backscatter. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	36
120	Mitigation of 50-60 Hz power line interference in geophysical data. <i>Radio Science</i> , 2010, 45, n/a-n/a.	1.6	36
121	Orientation of the HAARP ELF ionospheric dipole and the auroral electrojet. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	35
122	ELF/VLF wave generation via ionospheric HF heating: Experimental comparison of amplitude modulation, beam painting, and geometric modulation. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	35
123	Drivers of chorus in the outer dayside magnetosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	35
124	Diurnal variation of burst precipitation effects on subionospheric VLF/LF signal propagation near L = 2. <i>Journal of Geophysical Research</i> , 1984, 89, 9139-9143.	3.3	34
125	The scattering of VLF waves by localized ionospheric disturbances produced by lightning-induced electron precipitation. <i>Journal of Geophysical Research</i> , 1993, 98, 15553-15559.	3.3	34
126	Spheric clusters associated with early/Fast VLF events. <i>Geophysical Research Letters</i> , 2000, 27, 1391-1394.	4.0	34

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127	Mesosphere-troposphere coupling due to sprites. <i>Geophysical Research Letters</i> , 2001, 28, 3821-3824.	4.0	34
128	On the occurrence and spatial extent of electron precipitation induced by oblique nonducted whistler waves. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	34
129	Subionospheric VLF imaging of lightning-induced electron precipitation from the magnetosphere. <i>Journal of Geophysical Research</i> , 1990, 95, 17217-17231.	3.3	33
130	Terminal Impedance and Antenna Current Distribution of a VLF Electric Dipole in the Inner Magnetosphere. <i>IEEE Transactions on Antennas and Propagation</i> , 2008, 56, 2454-2468.	5.1	33
131	On the occurrence of ground observations of ELF/VLF magnetospheric amplification induced by the HAARP facility. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	33
132	Overview and early results of the Global Lightning and Sprite Measurements mission. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 3822-3851.	3.3	33
133	Electron density changes in the nighttime region due to heating by very-low-frequency transmitters. <i>Geophysical Research Letters</i> , 1994, 21, 93-96.	4.0	32
134	Determining the size of lightning-induced electron precipitation patches. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 10-1-SIA 10-11.	3.3	32
135	Geometric modulation: A more effective method of steerable ELF/VLF wave generation with continuous HF heating of the lower ionosphere. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	32
136	DEMETER observations of transmitter-induced precipitation of inner radiation belt electrons. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	32
137	Broadband longwave radio remote sensing instrumentation. <i>Review of Scientific Instruments</i> , 2018, 89, 094501.	1.3	32
138	Wave normal direction and spectral properties of whistler mode hiss observed on the DE 1 satellite. <i>Journal of Geophysical Research</i> , 1988, 93, 7493-7514.	3.3	31
139	Anomalous optical events detected by rocket-borne sensor in the WIPP Campaign. <i>Journal of Geophysical Research</i> , 1991, 96, 1315-1326.	3.3	31
140	Cluster measurements of rapidly moving sources of ELF/VLF chorus. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	31
141	A quantitative comparison of lightning-induced electron precipitation and VLF signal perturbations. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	31
142	VLF observation of long ionospheric recovery events. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	31
143	HF modulated ionospheric currents. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	31
144	Multistation observations of ELF/VLF whistler mode chorus. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	30

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145	Seasonal dependence of energetic electron precipitation: Evidence for a global role of lightning. Geophysical Research Letters, 2009, 36, .	4.0	30
146	A lightning discharge producing a beam of relativistic electrons into space. Geophysical Research Letters, 2010, 37, .	4.0	30
147	Design Framework for Soft-Error-Resilient Sequential Cells. IEEE Transactions on Nuclear Science, 2011, 58, 3026-3032.	2.0	30
148	Cluster observations of whistler mode ducts and banded chorus. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	30
149	Simultaneous Disturbance of Conjugate Ionospheric Regions in Association With Individual Lightning Flashes. Geophysical Research Letters, 1990, 17, 259-262.	4.0	29
150	Diagnostics of magnetospheric electron density and irregularities at altitudes <5000 km using whistler and Z mode echoes from radio sounding on the IMAGE satellite. Journal of Geophysical Research, 2004, 109, .	3.3	29
151	Observations of amplitude saturation in ELF/VLF wave generation by modulated HF heating of the auroral electrojet. Geophysical Research Letters, 2006, 33, .	4.0	28
152	Terrestrial versus Jovian VLF chorus; A comparative study. Journal of Geophysical Research, 1983, 88, 6171-6180.	3.3	27
153	<i>D</i> region disturbances caused by electromagnetic pulses from lightning. Geophysical Research Letters, 1992, 19, 2067-2070.	4.0	27
154	Ionospheric effects due to electrostatic thundercloud fields. Journal of Atmospheric and Solar-Terrestrial Physics, 1998, 60, 863-870.	1.6	27
155	Ionospheric E region remote sensing with ELF radio atmospherics. Radio Science, 2000, 35, 1437-1444.	1.6	27
156	A first approach to model the low-frequency wave activity in the plasmasphere. Annales Geophysicae, 2002, 20, 981-996.	1.6	27
157	A theoretical model study of observed correlations between whistler mode waves and energetic electron precipitation events in the magnetosphere. Journal of Geophysical Research, 1983, 88, 10053-10064.	3.3	26
158	Direct multiple path magnetospheric propagation: A fundamental property of nonducted VLF waves. Journal of Geophysical Research, 1984, 89, 2823-2830.	3.3	26
159	Fundamental properties of inert gas mixtures for plasma display panels. IEEE Transactions on Plasma Science, 2000, 28, 1271-1279.	1.3	26
160	High-speed measurements of small-scale features in sprites: Sizes and lifetimes. Radio Science, 2006, 41, n/a-n/a.	1.6	26
161	Runaway relativistic electron avalanche seeding in the Earth's atmosphere. Journal of Geophysical Research, 2008, 113, .	3.3	26
162	ionospheric modification with a VLF transmitter. Geophysical Research Letters, 1992, 19, 2071-2074.	4.0	25

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163	Mesospheric electric field transients due to tropospheric lightning discharges. Geophysical Research Letters, 1999, 26, 1247-1250.	4.0	25
164	Simultaneous triggered VLF emissions and energetic electron distributions observed on POLAR with PWI and HYDRA. Geophysical Research Letters, 2000, 27, 165-168.	4.0	25
165	Ionospheric region electron density profiles derived from the measured interference pattern of VLF waveguide modes. Radio Science, 2003, 38, n/a-n/a.	1.6	25
166	Penetration of lightning MF signals to the upper ionosphere over VLF ground-based transmitters. Journal of Geophysical Research, 2009, 114, .	3.3	25
167	DEMETER observations of ionospheric heating by powerful VLF transmitters. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	25
168	Precipitation of suprathermal (100 eV) Electrons by oblique whistler waves. Geophysical Research Letters, 1992, 19, 1639-1642.	4.0	24
169	Magnetic Sensor Design for FemtoTesla Low-Frequency Signals. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 396-402.	6.3	24
170	Two-dimensional frequency domain modeling of lightning EMP-induced perturbations to VLF transmitter signals. Journal of Geophysical Research, 2010, 115, .	3.3	24
171	DE-1 observations of lower hybrid waves excited by VLF whistler mode waves. Geophysical Research Letters, 1991, 18, 393-396.	4.0	23
172	Altitude profiles of localized region density disturbances produced in lightning-induced electron precipitation events. Journal of Geophysical Research, 1995, 100, 21375-21383.	3.3	23
173	Energetic electron precipitation due to gyroresonant interactions in the magnetosphere Involving coherent VLF waves with slowly varying frequency. Journal of Geophysical Research, 1983, 88, 7037-7050.	3.3	22
174	Pitch angle scattering of energetic particles by oblique whistler waves. Geophysical Research Letters, 1991, 18, 49-52.	4.0	22
175	Ldependence of energetic electron precipitation driven by magnetospherically reflecting whistler waves. Journal of Geophysical Research, 2002, 107, SMP 1-1-SMP 1-13.	3.3	22
176	Role of the plasmopause in dictating the ground accessibility of ELF/VLF chorus. Journal of Geophysical Research, 2010, 115, .	3.3	22
177	The relationship between geophysical conditions and ELF amplitude in modulated heating experiments at HAARP: Modeling and experimental results. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	22
178	Differing current and optical return stroke speeds in lightning. Geophysical Research Letters, 2014, 41, 2561-2567.	4.0	22
179	DE-1 observations of VLF transmitter signals and wave-particle interactions in the magnetosphere. Geophysical Research Letters, 1982, 9, 917-920.	4.0	21
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