

Umran S Inan

List of Publications by Year in descending order

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313
papers

13,601
citations

19657

61
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36028

97
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all docs

316
docs citations

316
times ranked

3878
citing authors

#	ARTICLE	IF	CITATIONS
1	The Micro-Broadband Receiver (1/4BBR) on the Very-Low-Frequency Propagation Mapper CubeSat. Earth and Space Science, 2021, 8, e2021EA001951.	2.6	6
2	Broadband longwave radio remote sensing instrumentation. Review of Scientific Instruments, 2018, 89, 094501.	1.3	32
3	Early/fast VLF events produced by the quiescent heating of the lower ionosphere by thunderstorms. Journal of Geophysical Research D: Atmospheres, 2017, 122, 6217-6230.	3.3	14
4	Global occurrence rate of elves and ionospheric heating due to cloud-to-ground lightning. Journal of Geophysical Research: Space Physics, 2016, 121, 699-712.	2.4	15
5	Identifying the occurrence of lightning and transient luminous events by nadir spectrophotometric observation. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 145, 85-97.	1.6	12
6	Horizontal distributions of sprites derived from the JEM-GLIMS nadir observations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 3171-3194.	3.3	13
7	Shipborne LF-VLF oceanic lightning observations and modeling. Journal of Geophysical Research D: Atmospheres, 2015, 120, 10,890-10,902.	3.3	13
8	Predicting conditions for the reception of one-hop signals from the Siple transmitter experiment using the Kp index. Journal of Geophysical Research: Space Physics, 2015, 120, 8440-8447.	2.4	1
9	Overview and early results of the Global Lightning and Sprite Measurements mission. Journal of Geophysical Research D: Atmospheres, 2015, 120, 3822-3851.	3.3	33
10	Latitudinal dependence of static mesospheric E fields above thunderstorms. Geophysical Research Letters, 2015, 42, 4208-4215.	4.0	11
11	An empirical profile of VLF triggered emissions. Journal of Geophysical Research: Space Physics, 2015, 120, 6581-6595.	2.4	5
12	The effect of electron and ion temperature on the refractive index surface of $1-10$ kHz whistler mode waves in the inner magnetosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 581-591.	2.4	13
13	Lightning-driven phenomena in near-earth space. , 2015, , .		0
14	Preferential amplification of rising versus falling frequency whistler mode signals. Geophysical Research Letters, 2015, 42, 207-214.	4.0	4
15	Differing current and optical return stroke speeds in lightning. Geophysical Research Letters, 2014, 41, 2561-2567.	4.0	22
16	On the spatial scale of streamers. , 2014, , .		1
17	Theoretical and numerical analysis of radiation belt electron precipitation by coherent whistler mode waves. Journal of Geophysical Research: Space Physics, 2014, 119, 4370-4388.	2.4	15
18	Analysis of magnetospheric ELF/VLF wave amplification from the Siple Transmitter experiment. Journal of Geophysical Research: Space Physics, 2014, 119, 1837-1850.	2.4	11

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19	Lightning activity following the return stroke. Journal of Geophysical Research D: Atmospheres, 2014, 119, 8329-8339.	3.3	2
20	Finite difference modeling of coherent wave amplification in the Earth's radiation belts. Geophysical Research Letters, 2014, 41, 8193-8200.	4.0	17
21	Return stroke speed of cloud-to-ground lightning estimated from elve hole radii. Geophysical Research Letters, 2014, 41, 9182-9187.	4.0	10
22	Recent results on effects of lightning discharges on the ionosphere and the radiation belts. , 2014, , .		0
23	Analysis of experimentally validated trans-ionospheric attenuation estimates of VLF signals. Journal of Geophysical Research: Space Physics, 2013, 118, 2708-2720.	2.4	48
24	Magnetospheric wave power density from ground-based VLF transmitters. , 2013, , .		0
25	Utilizing nonlinear ELF generation in modulated ionospheric heating experiments for communications applications. Radio Science, 2013, 48, 61-68.	1.6	10
26	Statistical patterns in the location of natural lightning. Journal of Geophysical Research D: Atmospheres, 2013, 118, 787-796.	3.3	9
27	Highly intense lightning over the oceans: Estimated peak currents from global GLD360 observations. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6905-6915.	3.3	154
28	Extended lateral heating of the nighttime ionosphere by ground-based VLF transmitters. Journal of Geophysical Research: Space Physics, 2013, 118, 7783-7797.	2.4	10
29	Harmonic minimization waveforms for modulated heating experiments at HAARP. Journal of Geophysical Research, 2012, 117, .	3.3	4
30	Full wave modeling of VLF wave scattering and propagation in curvilinear stratified ionosphere. , 2012, , .		1
31	Very low latitude (L = 1.08) whistlers. Geophysical Research Letters, 2012, 39, .	4.0	10
32	Metamaterial waveguide model of a return stroke channel. , 2012, , .		0
33	Nighttime D region electron density measurements from ELF-VLF tweek radio atmospherics recorded at low latitudes. Journal of Geophysical Research, 2012, 117, .	3.3	37
34	Long-lasting D-region ionospheric modifications, caused by intense lightning in association with elve and sprite pairs. Geophysical Research Letters, 2012, 39, .	4.0	38
35	Terrestrial VLF transmitter injection into the magnetosphere. Journal of Geophysical Research, 2012, 117, .	3.3	57
36	An Image Frequency Rejection Filter for SAW-Less GPS Receivers. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 1085-1092.	5.4	4

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37	Spatial dependence of banded chorus intensity near the magnetic equator. Geophysical Research Letters, 2012, 39, .	4.0	8
38	Models of ionospheric VLF absorption of powerful ground based transmitters. Geophysical Research Letters, 2012, 39, .	4.0	44
39	A 9mW direct RF sampling GPS receiver front-end in 0.13µm BiCMOS. , 2012, , .		2
40	HF beam parameters in ELF/VLF wave generation via modulated heating of the ionosphere. Journal of Geophysical Research, 2012, 117, .	3.3	16
41	Morphological features of tweeks and nighttime <i>D</i> region ionosphere at tweek reflection height from the observations in the lowÄatitude Indian sector. Journal of Geophysical Research, 2012, 117, .	3.3	12
42	Design Framework for Soft-Error-Resilient Sequential Cells. IEEE Transactions on Nuclear Science, 2011, 58, 3026-3032.	2.0	30
43	Determination of solar cycle variations of midlatitude ELF/VLF chorus and hiss via automated signal detection. Journal of Geophysical Research, 2011, 116, .	3.3	16
44	Magnetospheric injection of ELF/VLF waves with modulated or steered HF heating of the lower ionosphere. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	14
45	On the occurrence of ground observations of ELF/MLF magnetospheric amplification induced by the HAARP facility. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	33
46	DEMETER observations of ionospheric heating by powerful VLF transmitters. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	25
47	Cluster observations of whistler mode ducts and banded chorus. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	30
48	Longitudinal dependence of lightning-induced electron precipitation. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	12
49	D-region ionosphere response to the total solar eclipse of 22 July 2009 deduced from ELF-VLF tweek observations in the Indian sector. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	37
50	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
51	Modeling scattering from lightning-induced ionospheric disturbances with the discontinuous Galerkin method. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	4
52	Transmitter-induced modulation of subionospheric VLF signals: Ionospheric heating rather than electron precipitation. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	13
53	The contribution of artificial D-region disturbances to the ionospheric VLF wave environment. , 2011, , .		0
54	A Double notch RF filter architecture for SAW-less GPS receivers. , 2011, , .		8

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55	DEMETER observations of the ionospheric trough over HAARP in relation to HF heating experiments. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	19
56	Discontinuous Galerkin particle-in-cell simulation of longitudinal plasma wave damping and comparison to the Landau approximation and the exact solution of the dispersion relation. Physics of Plasmas, 2011, 18, .	1.9	3
57	Estimation of global lightning activity and observations of atmospheric electric field. Acta Geophysica, 2011, 59, 183-204.	2.0	12
58	Detection of magnetospherically ducted VLF signals geomagnetically conjugate to a Russian Alpha transmitter at L=1.9. , 2011, , .		0
59	Modeling VLF propagation in the Earth-ionosphere waveguide using the discontinuous Galerkin method. , 2011, , .		0
60	Spatial and temporal patterns in lightning discharges as a proxy of thunderstorm characteristics. , 2011, , .		0
61	Model estimates of optical emissions due to lightning-induced electron precipitation. , 2011, , .		1
62	The Global Lightning and Sprite Measurement (GLIMS) Mission on International Space Station -Concept and Overview-. IEJ Transactions on Fundamentals and Materials, 2011, 131, 971-976.	0.2	12
63	Lightning and Sprite Observation from International Space Station. IEJ Transactions on Fundamentals and Materials, 2011, 131, 16-20.	0.2	1
64	LEAP: Layout Design through Error-Aware Transistor Positioning for soft-error resilient sequential cell design. , 2010, , .		72
65	Magnetic Sensor Design for Femtotesla Low-Frequency Signals. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 396-402.	6.3	24
66	SPRITE-SAT: a Micro Satellite for Scientific Observation of Transient Luminous Events and Terrestrial Gamma-Ray Flashes. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2010, 8, Tm_7-Tm_12.	0.2	7
67	Geolocation of terrestrial gamma-ray flash source lightning. Geophysical Research Letters, 2010, 37, .	4.0	46
68	ELF/VLF wave generation via ionospheric HF heating: Experimental comparison of amplitude modulation, beam painting, and geometric modulation. Journal of Geophysical Research, 2010, 115, .	3.3	35
69	Drivers of chorus in the outer dayside magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	35
70	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
71	Neutron production in terrestrial gamma ray flashes. Journal of Geophysical Research, 2010, 115, .	3.3	50
72	Wave normal angles of magnetospheric chorus emissions observed on the Polar spacecraft. Journal of Geophysical Research, 2010, 115, .	3.3	68

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73	Two-dimensional frequency domain modeling of lightning EMP-induced perturbations to VLF transmitter signals. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	24
74	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
75	Full-wave modeling of early-VLF perturbations caused by lightning electromagnetic pulses. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	14
76	Propagation of whistler mode waves with a modulated frequency in the magnetosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	13
77	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
78	A lightning discharge producing a beam of relativistic electrons into space. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	30
79	Optical signatures of radiation belt electron precipitation induced by ground-based VLF transmitters. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	9
80	Terrestrial gamma ray flash production by active lightning leader channels. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	69
81	Quasi-electrostatic whistler mode wave excitation by linear scattering of EM whistler mode waves from magnetic field-aligned density irregularities. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	11
82	Role of the plasmopause in dictating the ground accessibility of ELF/VLF chorus. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	22
83	Long-range lightning geolocation using a VLF radio atmospheric waveform bank. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	152
84	Mitigation of 50-60 Hz power line interference in geophysical data. <i>Radio Science</i> , 2010, 45, n/a-n/a.	1.6	36
85	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
86	Fluid simulation of the collisionless plasma sheath surrounding an electric dipole antenna in the inner magnetosphere. <i>Radio Science</i> , 2010, 45, n/a-n/a.	1.6	12
87	Observations of Earth space by self-powered stations in Antarctica. <i>Review of Scientific Instruments</i> , 2009, 80, 124501.	1.3	11
88	Observations of Terrestrial Gamma-Ray Flash Electrons. , 2009, , .		14
89	Very Low Frequency Remote Sensing Measurements of the Lower Ionosphere at Site of the United Arab Emirates. <i>Earth, Moon and Planets</i> , 2009, 104, 189-193.	0.6	0
90	Source regions of banded chorus. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	55

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91	Modeling of Doppler-shifted terrestrial VLF transmitter signals observed by DEMETER. Geophysical Research Letters, 2009, 36, .	4.0	19
92	Cross modulation of whistler mode and HF waves above the HAARP ionospheric heater. Geophysical Research Letters, 2009, 36, .	4.0	16
93	Seasonal dependence of energetic electron precipitation: Evidence for a global role of lightning. Geophysical Research Letters, 2009, 36, .	4.0	30
94	Relationship between electrojet current strength and ELF signal intensity in modulated heating experiments. Journal of Geophysical Research, 2009, 114, .	3.3	18
95	On remote sensing of transient luminous events' parent lightning discharges by ELF/VLF wave measurements on board a satellite. Journal of Geophysical Research, 2009, 114, .	3.3	13
96	Effect of frequency modulation on whistler mode waves in the magnetosphere. Journal of Geophysical Research, 2009, 114, .	3.3	9
97	Terrestrial gamma ray flash production by lightning current pulses. Journal of Geophysical Research, 2009, 114, .	3.3	56
98	Penetration of lightning MF signals to the upper ionosphere over VLF ground-based transmitters. Journal of Geophysical Research, 2009, 114, .	3.3	25
99	High-Frame-Rate Reconstruction of a Dynamic 2-D Scene From Continuous Orthogonal Projections. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2646-2657.	6.3	3
100	Reply to comment by R. C. Moore and M. T. Rietveld on "Geometric modulation: A more effective method of steerable ELF/VLF wave generation with continuous HF heating of the lower ionosphere". Geophysical Research Letters, 2009, 36, .	4.0	5
101	Full-wave modeling of transionospheric propagation of VLF waves. Geophysical Research Letters, 2009, 36, .	4.0	76
102	PENGUIn multi-instrument observations of dayside high-latitude injections during the 23 March 2007 substorm. Journal of Geophysical Research, 2009, 114, .	3.3	8
103	Propagation of unducted whistlers from their source lightning: A case study. Journal of Geophysical Research, 2009, 114, .	3.3	45
104	Diurnal dependence of ELF/VLF hiss and its relation to chorus at $\langle i \rangle / i = 2.4$. Journal of Geophysical Research, 2009, 114, .	3.3	10
105	DEMETER observations of transmitter-induced precipitation of inner radiation belt electrons. Journal of Geophysical Research, 2009, 114, .	3.3	32
106	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
107	Orientation of the HAARP ELF ionospheric dipole and the auroral electrojet. Geophysical Research Letters, 2008, 35, .	4.0	35
108	Precipitation signatures of ground-based VLF transmitters. Journal of Geophysical Research, 2008, 113, .	3.3	44

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109	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
110	Multistation observations of ELF/VLF whistler mode chorus. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	30
111	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
112	Effects of plasma density irregularities on the pitch angle scattering of radiation belt electrons by signals from ground based VLF transmitters. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	17
113	Early VLF perturbations caused by lightning EMP-driven dissociative attachment. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	41
114	Nonlinear interaction of energetic electrons with large amplitude chorus. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	201
115	A novel technique for remote sensing of thunderstorm electric fields via the Kerr effect and sky polarization. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	5
116	Energetic electron precipitation induced by space based VLF transmitters. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	11
117	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
118	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
119	Runaway relativistic electron avalanche seeding in the Earth's atmosphere. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	26
120	Saturation effects in the VLF-triggered emission process. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	17
121	HF signatures of powerful lightning recorded on DEMETER. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	16
122	V-shaped VLF streaks recorded on DEMETER above powerful thunderstorms. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	17
123	Fast Photometric Imaging Using Orthogonal Linear Arrays. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 3885-3893.	6.3	14
124	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
125	Finite difference frequency domain (FDFD) modeling of trans-ionospheric propagation of VLF signals over long sub-ionospheric paths. , 2007, , .		0
126	DEMETER satellite observations of lightning-induced electron precipitation. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	58

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127	Subionospheric VLF observations of transmitter-induced precipitation of inner radiation belt electrons. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	41
128	Possible direct cloud-to-ionosphere current evidenced by sprite-initiated secondary TLEs. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	20
129	Possible persistent ionization caused by giant blue jets. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	59
130	Constraints on terrestrial gamma ray flash production from satellite observation. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	89
131	ELF waves generated by modulated HF heating of the auroral electrojet and observed at a ground distance of ~ 4400 km. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	52
132	A quantitative comparison of lightning-induced electron precipitation and VLF signal perturbations. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	31
133	VLF observation of long ionospheric recovery events. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	31
134	HF modulated ionospheric currents. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	31
135	Remote sensing of ionospheric disturbances associated with energetic particle precipitation using the South Pole VLF beacon. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	13
136	Very low frequency spheric bursts, sprites, and their association with lightning activity. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	15
137	A Technique for Efficiently Modeling Long-Path Propagation for Use in Both FDFD and FDTD. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2006, 5, 525-528.	4.0	20
138	Landau damping and resultant unidirectional propagation of chorus waves. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	70
139	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
140	Perturbations of midlatitude subionospheric VLF signals associated with lower ionospheric disturbances during major geomagnetic storms. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	47
141	Rapidly moving sources of upper band ELF/VLF chorus near the magnetic equator. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	13
142	Observations of the relationship between sprite morphology and in-cloud lightning processes. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	79
143	Terrestrial gamma ray flashes observed aboard the Compton Gamma Ray Observatory/Burst and Transient Source Experiment and ELF/VLF radio atmospherics. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	48
144	Current distribution of a VLF electric dipole antenna in the plasmasphere. <i>Radio Science</i> , 2006, 41, n/a-n/a.	1.6	19

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145	Characterization of terminal impedance and radiation properties of a horizontal VLF antenna over Antarctic ice. <i>Radio Science</i> , 2006, 41, n/a-n/a.	1.6	4
146	High-speed measurements of small-scale features in sprites: Sizes and lifetimes. <i>Radio Science</i> , 2006, 41, n/a-n/a.	1.6	26
147	DEMETER observations of ELF waves injected with the HAARP HF transmitter. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	36
148	Terrestrial gamma ray flashes and lightning discharges. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	59
149	Whistler mode illumination of the plasmaspheric resonant cavity via in situ injection of ELF/VLF waves. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	6
150	“Early/slow” events: A new category of VLF perturbations observed in relation with sprites. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	47
151	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
152	Observations of amplitude saturation in ELF/VLF wave generation by modulated HF heating of the auroral electrojet. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	28
153	A TID and SEE Radiation-Hardened, Wideband, Low-Noise Amplifier. <i>IEEE Transactions on Nuclear Science</i> , 2006, 53, 3439-3448.	2.0	15
154	A PML Utilizing k-Vector Information as Applied to the Whistler Mode in a Magnetized Plasma. <i>IEEE Transactions on Antennas and Propagation</i> , 2006, 54, 2424-2429.	5.1	12
155	High-speed telescopic imaging of sprites. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	39
156	Co-ordinated observations of transient luminous events during the EuroSprite2003 campaign. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2005, 67, 807-820.	1.6	81
157	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
158	Wave acceleration of electrons in the Van Allen radiation belts. <i>Nature</i> , 2005, 437, 227-230.	27.8	505
159	Optical observations geomagnetically conjugate to sprite-producing lightning discharges. <i>Annales Geophysicae</i> , 2005, 23, 2231-2237.	1.6	6
160	ATMOSPHERIC SCIENCE: Gamma Rays Made on Earth. <i>Science</i> , 2005, 307, 1054-1055.	12.6	21
161	Improvement of the efficiency of plasma display panels by combining waveform and cell geometry design. <i>IEEE Transactions on Plasma Science</i> , 2005, 33, 147-156.	1.3	13
162	Simulation of self-erase discharge waveforms in plasma display panels. <i>IEEE Transactions on Plasma Science</i> , 2005, 33, 516-517.	1.3	2

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163	Streamers and diffuse glow observed in upper atmospheric electrical discharges. IEEE Transactions on Plasma Science, 2005, 33, 282-283.	1.3	17
164	Whistlers observed by the Cluster spacecraft outside the plasmasphere. Journal of Geophysical Research, 2005, 110, .	3.3	13
165	Electron precipitation events driven by lightning in hurricanes. Journal of Geophysical Research, 2005, 110, .	3.3	14
166	Production of terrestrial gamma-ray flashes by an electromagnetic pulse from a lightning return stroke. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	44
167	Ground based VLF observations near L= 2.5 during the Halloween 2003 storm. Geophysical Research Letters, 2005, 32, .	4.0	14
168	Cluster observations of ELF/VLF signals generated by modulated heating of the lower ionosphere with the HAARP HF transmitter. Annales Geophysicae, 2004, 22, 2643-2653.	1.6	15
169	Cluster observations of mid-latitude hiss near the plasmopause. Annales Geophysicae, 2004, 22, 2565-2575.	1.6	18
170	A PML Using a Convolutional Curl Operator and a Numerical Reflection Coefficient for General Linear Media. IEEE Transactions on Antennas and Propagation, 2004, 52, 1647-1657.	5.1	16
171	The link between a detached subauroral proton arc and a plasmaspheric plume. Geophysical Research Letters, 2004, 31, .	4.0	109
172	Comparison of photometric measurements and charge moment estimations in two sprite-producing storms. Geophysical Research Letters, 2004, 31, .	4.0	10
173	Cluster measurements of rapidly moving sources of ELF/VLF chorus. Journal of Geophysical Research, 2004, 109, .	3.3	31
174	Latitudinal and seasonal variations of quasiperiodic and periodic VLF emissions in the outer magnetosphere. Journal of Geophysical Research, 2004, 109, .	3.3	44
175	Multi-hop whistler-mode ELF/VLF signals and triggered emissions excited by the HAARP HF heater. Geophysical Research Letters, 2004, 31, .	4.0	45
176	On the occurrence and spatial extent of electron precipitation induced by oblique nonducted whistler waves. Journal of Geophysical Research, 2004, 109, .	3.3	34
177	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
178	Subionospheric early VLF signal perturbations observed in one-to-one association with sprites. Journal of Geophysical Research, 2004, 109, .	3.3	66
179	Localization of individual lightning discharges via directional and temporal triangulation of sferic measurements at two distant sites. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	12
180	Observations of decameter-scale morphologies in sprites. Journal of Atmospheric and Solar-Terrestrial Physics, 2003, 65, 567-572.	1.6	43

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181	Energy distribution and lifetime of magnetospherically reflecting whistlers in the plasmasphere. Journal of Geophysical Research, 2003, 108, .	3.3	48
182	Frequency-time spectra of magnetospherically reflecting whistlers in the plasmasphere. Journal of Geophysical Research, 2003, 108, .	3.3	62
183	Controlled precipitation of radiation belt electrons. Journal of Geophysical Research, 2003, 108, .	3.3	102
184	Early/fast VLF events produced by electron density changes associated with sprite halos. Journal of Geophysical Research, 2003, 108, .	3.3	51
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