

Thomas B Leyser

List of Publications by Year in descending order

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47
papers

1,419
citations

304743

22
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315739

38
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51
all docs

51
docs citations

51
times ranked

518
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionospheric electron heating, optical emissions, and striations induced by powerful HF radio waves at high latitudes: Aspect angle dependence. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	161
2	Stimulated electromagnetic emission near electron cyclotron harmonics in the ionosphere. <i>Physical Review Letters</i> , 1989, 63, 1145-1147.	7.8	114
3	Dependence of stimulated electromagnetic emission on the ionosphere and pump wave. <i>Journal of Geophysical Research</i> , 1990, 95, 17233-17244.	3.3	81
4	Spectral structure of stimulated electromagnetic emissions between electron cyclotron harmonics. <i>Journal of Geophysical Research</i> , 1993, 98, 17597-17606.	3.3	72
5	High-latitude HF-induced airglow displaced equatorwards of the pump beam. <i>Geophysical Research Letters</i> , 2000, 27, 2817-2820.	4.0	66
6	First tomographic estimate of volume distribution of HF-pump enhanced airglow emission. <i>Journal of Geophysical Research</i> , 2001, 106, 29105-29123.	3.3	65
7	The science case for the EISCAT_3D radar. <i>Progress in Earth and Planetary Science</i> , 2015, 2, .	3.0	60
8	Parametric interaction between upper hybrid and lower hybrid waves in heating experiments. <i>Geophysical Research Letters</i> , 1991, 18, 408-411.	4.0	58
9	The electron energy distribution during HF pumping, a picture painted with all colors. <i>Annales Geophysicae</i> , 2005, 23, 1747-1754.	1.6	52
10	Radio Pumping of Ionospheric Plasma with Orbital Angular Momentum. <i>Physical Review Letters</i> , 2009, 102, 065004.	7.8	46
11	Parametric decay of an electromagnetic wave near electron cyclotron harmonics. <i>Physics of Plasmas</i> , 1995, 2, 2084-2097.	1.9	45
12	Small-scale magnetic field-aligned density irregularities excited by a powerful electromagnetic wave. <i>Physics of Plasmas</i> , 1997, 4, 817-828.	1.9	42
13	Electron Gyroharmonic Effects in Ionization and Electron Acceleration during High-Frequency Pumping in the Ionosphere. <i>Physical Review Letters</i> , 2006, 97, 195002.	7.8	42
14	Unambiguous evidence of HF pump-enhanced airglow at auroral latitudes. <i>Geophysical Research Letters</i> , 1999, 26, 3561-3564.	4.0	41
15	Multifrequency Doppler Radar Observations of Electron Gyroharmonic Effects during Electromagnetic Pumping of the Ionosphere. <i>Physical Review Letters</i> , 1997, 78, 883-886.	7.8	34
16	Stimulated electromagnetic emissions during pump frequency sweep through fourth electron cyclotron harmonic. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 5-1.	3.3	33
17	Cavitating Langmuir Turbulence Observed during High-Latitude Ionospheric Wave Interaction Experiments. <i>Physical Review Letters</i> , 1999, 83, 2576-2579.	7.8	32
18	Competition between Langmuir and Upper-Hybrid Turbulence in a High-Frequency-Pumped Ionosphere. <i>Physical Review Letters</i> , 2005, 95, 255002.	7.8	32

#	ARTICLE	IF	CITATIONS
19	Parametric interaction of self-localized upper hybrid states in quantized plasma density irregularities. <i>Physics of Plasmas</i> , 1998, 5, 921-931.	1.9	28
20	Electron acceleration by cylindrical upper hybrid oscillations trapped in density irregularities in the ionosphere. <i>Physics of Plasmas</i> , 2003, 10, 2962-2970.	1.9	26
21	Powerful electromagnetic waves for active environmental research in geospace. <i>Reviews of Geophysics</i> , 2009, 47, .	23.0	25
22	Ponderomotive narrow continuum (NCp) component in stimulated electromagnetic emission spectra. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	23
23	Electromagnetic radiation by parametric decay of upper hybrid waves in ionospheric modification experiments. <i>Physics of Plasmas</i> , 1994, 1, 2003-2011.	1.9	22
24	Nearly simultaneous images of HF-pump enhanced airglow at 6300 Å... and 5577 Å... <i>Geophysical Research Letters</i> , 2002, 29, 73-1-73-4.	4.0	22
25	Title is missing!. <i>Radiophysics and Quantum Electronics</i> , 2002, 45, 193-210.	0.5	22
26	F-region electron heating by X-mode radiowaves in underdense conditions. <i>Annales Geophysicae</i> , 2009, 27, 2585-2592.	1.6	20
27	Ionospheric plasma density irregularities measured by stimulated electromagnetic emission. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	19
28	Diffraction of electromagnetic waves by small scale geomagnetic field-aligned density striations. <i>Physics of Plasmas</i> , 2001, 8, 4577-4584.	1.9	17
29	Self-focussed radio frequency L wave pumping of localized upper hybrid oscillations in high-latitude ionospheric plasma. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	15
30	Numerical study of upper hybrid to <i>Z</i>-mode leakage during electromagnetic pumping of groups of striations in the ionosphere. <i>Annales Geophysicae</i> , 2015, 33, 1019-1030.	1.6	14
31	First observations of X-mode suppression of O-mode HF enhancements at 6300 Å... <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	13
32	Conversion of trapped upper hybrid oscillations and Z mode at a plasma density irregularity. <i>Physics of Plasmas</i> , 2003, 10, 2509-2518.	1.9	12
33	HF pump-induced large scale radial drift of small scale magnetic field-aligned density striations. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 1-1.	3.3	11
34	Ray tracing analysis of L mode pumping of the ionosphere, with implications for the magnetic zenith effect. <i>Annales Geophysicae</i> , 2010, 28, 1749-1759.	1.6	10
35	Electromagnetic coupling of localized upper hybrid oscillations in a system of density depletions. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	9
36	Plasma angular momentum effects and twisted incoherent scatter radar beams. <i>Radio Science</i> , 2012, 47, .	1.6	7

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37	Evidence of L^{\pm} -mode electromagnetic wave pumping of ionospheric plasma near geomagnetic zenith. <i>Annales Geophysicae</i> , 2018, 36, 243-251.	1.6	6
38	Transient dynamics of secondary radiation from an HF pumped magnetized space plasma. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	5
39	Auroral molecular-emission effects on the atomic oxygen line at 777.4Ånm. <i>Earth, Planets and Space</i> , 2018, 70, 166.	2.5	4
40	Kinetics of density striations excited by powerful electromagnetic waves in the ionosphere. <i>Physics of Plasmas</i> , 2010, 17, 032903.	1.9	3
41	Enhanced nonlinear interaction of powerful electromagnetic waves with ionospheric plasma near the second electron gyroharmonic. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	3
42	First Observations of Recurring HF-Enhanced Topside Ion Line Spectra Near the Fourth Gyroharmonic. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8649-8663.	2.4	3
43	MARSIS Observations of Field-Aligned Irregularities and Ducted Radio Propagation in the Martian Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6251-6263.	2.4	2
44	Quantization of plasma density irregularities under the action of a powerful electromagnetic wave: The spectrum of upper hybrid oscillations self-consistently trapped in density cavities. <i>Radiophysics and Quantum Electronics</i> , 1999, 42, 562-571.	0.5	1
45	Electron heating by HF pumping of high-latitude ionospheric F-region plasma near magnetic zenith. <i>Annales Geophysicae</i> , 2020, 38, 297-307.	1.6	1
46	Deterministic Chaos in Ionospheric Plasma Pumped by Radio Waves. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093892.	4.0	0
47	Conditions for Topside Ion Line Enhancements. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029379.	2.4	0