Edmund A Spencer

List of Publications by Year
in descending order

37	171	1307594 7	1199594 12
papers	citations	h-index	g-index

38	38	38	170
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hybrid Perturbations in Stacked Patchâ€“Ring Circularly Polarized Microstrip Antennas for CubeSat Applications. IEEE Aerospace and Electronic Systems Magazine, 2022, 37, 24-31.	1.3	0
2	Time Domain Expressions for the Current of a Dipole Probe in a Magnetized Plasma. IEEE Transactions on Plasma Science, 2021, 49, 2817-2822.	1.3	0
3	FDTD Simulations Of The Impedance Of A Dipole Antenna in A Plasma. , 2019, , .		0
4	A Time-Domain Impedance Probe for Fast Measurements of Electron Plasma Parameters in the Ionosphere. IEEE Transactions on Plasma Science, 2019, 47, 1322-1329.	1.3	3
5	Global Energy Dynamics During Substorms on 9 March 2008 and 26 February 2008 Using Satellite Observations and the WINDMI Model. Journal of Geophysical Research: Space Physics, 2019, 124, 1698-1710.	2.4	0
6	Motor Controller and Reaction Wheel for CubeSat. , 2019, , .		0
7	Circularly Polarized Small-Footprint Hybrid Ring-Patch Stacked Antenna for Pico-Satellites. , 2018, , .		2
8	Numerical Simulation of a Combined Time Domain Impedance Probe and Plasma Wave Receiver System for Small Satellite Applications. , 2018, , .		0
9	The dynamics of geomagnetic substorms with the WINDMI model. Earth, Planets and Space, 2018, 70, .	2.5	3
10	The Impedance Characteristics Of An Electrically Long Dipole Immersed In a Magnetized Plasma. , 2018, , .		0
11	Using only two magnetorquers to de-tumble a 2U CubeSAT. Advances in Space Research, 2018, 62, 3086-3094.	2.6	6
12	First results from a time domain impedance probe for measuring plasma properties in the ionosphere. , 2017, , .		3
13	A System On Chip design for fast time domain impedance spectroscopy. , 2017, , .		1
14	Ionosphere plasma electron parameters from radio frequency sweeping impedance probe measurements. Radio Science, 2015, 50, 853-865.	1.6	14
15	The effect of changing solar wind conditions on the inner magnetosphere and ring current: A model data comparison. Journal of Geophysical Research: Space Physics, 2015, 120, 6528-6540.	2.4	3
16	Collisionless resistivity in a bifurcated current sheet. Journal of Geophysical Research: Space Physics, 2014, 119, 4290-4306.	2.4	1
17	Magnetotail current contribution to the Dst Index Using the MT Index and the WINDMI model. Advances in Space Research, 2013, 52, 1974-1986.	2.6	2
18	Plasma Impedance Probe: Simulations and Comparison to Sounding Rocket Mission Data. IEEE Transactions on Plasma Science, 2013, 41, 220-231.	1.3	5

#	Article	IF	Citations
19	Radiation and Impedance Characteristics of a Circular Loop Antenna Driven by Fractional Order Electronics. , 2013, , .		0
20	The effect of nonlinear ionospheric conductivity enhancement on magnetospheric substorms. Nonlinear Processes in Geophysics, 2013, 20, 429-435.	1.3	3
21	Forecasting the Dst index during corotating interaction region events using synthesized solar wind parameters. Journal of Geophysical Research, 2012, 117, .	3.3	1
22	Study ofDst/ring current recovery times using the WINDMI model. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	15
23	Influence of solar wind-magnetosphere coupling functions on theDstindex. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	13
24	Optimization of a Magnetosphere Model for Real-Time Space Weather Prediction Using a Modified Genetic Algorithm. IEEE Transactions on Plasma Science, 2010, 38, 2922-2933.	1.3	6
25	Electronic design and modeling of an integrated plasma impedance probe. , 2009, , .		0
26	Evaluation of solar windâ€magnetosphere coupling functions during geomagnetic storms with the WINDMI model. Journal of Geophysical Research, 2009, 114, .	3.3	21
27	Realâ€time predictions of geomagnetic storms and substorms: Use of the Solar Wind Magnetosphereâ€Ionosphere System model. Space Weather, 2009, 7, .	3.7	14
28	Electron density and electron neutral collision frequency in the ionosphere using plasma impedance probe measurements. Journal of Geophysical Research, 2008, 113, .	3.3	13
29	Plasma Impedance Probe Analysis with a Finite Difference Time Domain Model. , 2007, , .		0
30	Analysis of the 3-7 October 2000 and 15-24 April 2002 geomagnetic storms with an optimized nonlinear dynamical model. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	20
31	Effect of Interplanetary Shocks on theALandDstIndices. Geophysical Research Letters, 2007, 34, .	4.0	4
32	Global Energy Confinement Scaling Predictions for Tandem Mirrors. Journal of Fusion Energy, 2007, 26, 77-80.	1.2	1
33	The dynamics of storms and substorms with the WINDMI model. Advances in Space Research, 2006, 38, 1657-1668.	2.6	4
34	Analysis of the October 3-7 2000 GEM storm with the WINDMI model. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	2
35	Impact Analysis of Hall Thrusters on Satellite Antenna Performance. Journal of Spacecraft and Rockets, 2002, 39, 115-124.	1.9	4
36	Development and application of the BeamServer code for plume impact analysis on satellite communication. , 2001, , .		4

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37	Impact analysis of Hall thrusters on satellite communication. , 2000, , .		3