

# Edmund A Spencer

## List of Publications by Year in descending order

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37  
papers

171  
citations

1307594

7  
h-index

1199594

12  
g-index

38  
all docs

38  
docs citations

38  
times ranked

170  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of solar wind-magnetosphere coupling functions during geomagnetic storms with the WINDMI model. Journal of Geophysical Research, 2009, 114, .	3.3	21
2	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
3	Study of Dst/ring current recovery times using the WINDMI model. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	15
4	Real-time predictions of geomagnetic storms and substorms: Use of the Solar Wind Magnetosphere-Ionosphere System model. Space Weather, 2009, 7, .	3.7	14
5	Ionosphere plasma electron parameters from radio frequency sweeping impedance probe measurements. Radio Science, 2015, 50, 853-865.	1.6	14
6	Electron density and electron neutral collision frequency in the ionosphere using plasma impedance probe measurements. Journal of Geophysical Research, 2008, 113, .	3.3	13
7	Influence of solar wind-magnetosphere coupling functions on the Dst index. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	13
8	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
9	Using only two magnetorquers to de-tumble a 2U CubeSAT. Advances in Space Research, 2018, 62, 3086-3094.	2.6	6
10	Plasma Impedance Probe: Simulations and Comparison to Sounding Rocket Mission Data. IEEE Transactions on Plasma Science, 2013, 41, 220-231.	1.3	5
11	Development and application of the BeamServer code for plume impact analysis on satellite communication. , 2001, , .		4
12	Impact Analysis of Hall Thrusters on Satellite Antenna Performance. Journal of Spacecraft and Rockets, 2002, 39, 115-124.	1.9	4
13	The dynamics of storms and substorms with the WINDMI model. Advances in Space Research, 2006, 38, 1657-1668.	2.6	4
14	Effect of Interplanetary Shocks on the AL and Dst Indices. Geophysical Research Letters, 2007, 34, .	4.0	4
15	Impact analysis of Hall thrusters on satellite communication. , 2000, , .		3
16	The effect of nonlinear ionospheric conductivity enhancement on magnetospheric substorms. Nonlinear Processes in Geophysics, 2013, 20, 429-435.	1.3	3
17	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
18	First results from a time domain impedance probe for measuring plasma properties in the ionosphere. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
19	The dynamics of geomagnetic substorms with the WINDMI model. Earth, Planets and Space, 2018, 70, .	2.5	3
20	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
21	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
22	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
23	Circularly Polarized Small-Footprint Hybrid Ring-Patch Stacked Antenna for Pico-Satellites. , 2018, , .		2
24	Global Energy Confinement Scaling Predictions for Tandem Mirrors. Journal of Fusion Energy, 2007, 26, 77-80.	1.2	1
25	Forecasting the $Dst$ index during corotating interaction region events using synthesized solar wind parameters. Journal of Geophysical Research, 2012, 117, .	3.3	1
26	Collisionless resistivity in a bifurcated current sheet. Journal of Geophysical Research: Space Physics, 2014, 119, 4290-4306.	2.4	1
27	A System On Chip design for fast time domain impedance spectroscopy. , 2017, , .		1
28	Plasma Impedance Probe Analysis with a Finite Difference Time Domain Model. , 2007, , .		0
29	Electronic design and modeling of an integrated plasma impedance probe. , 2009, , .		0
30	Radiation and Impedance Characteristics of a Circular Loop Antenna Driven by Fractional Order Electronics. , 2013, , .		0
31	Numerical Simulation of a Combined Time Domain Impedance Probe and Plasma Wave Receiver System for Small Satellite Applications. , 2018, , .		0
32	The Impedance Characteristics Of An Electrically Long Dipole Immersed In a Magnetized Plasma. , 2018, , .		0
33	FDTD Simulations Of The Impedance Of A Dipole Antenna in A Plasma. , 2019, , .		0
34	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
35	Motor Controller and Reaction Wheel for CubeSat. , 2019, , .		0
36	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

#	ARTICLE	IF	CITATIONS
37	Hybrid Perturbations in Stacked Patch-Ring Circularly Polarized Microstrip Antennas for CubeSat Applications. IEEE Aerospace and Electronic Systems Magazine, 2022, 37, 24-31.	1.3	0