Phillip Sewell

List of Publications by Year
in descending order

30 papers	843 citations

1163117
8 h-index	19 g-index
794594

30 all docs	30 docs citations

30 times ranked	884 citing authors

#	Article	IF	Citations
1	Non-thermal heat-shock response to microwaves. Nature, 2000, 405, 417-418.	27.8	584
2	Explicit Solution of the Time Domain Volume Integral Equation Using a Stable Predictor-Corrector Scheme. IEEE Transactions on Antennas and Propagation, 2012, 60, 5203-5214.	5.1	77
3	Direct Computation of Statistical Variations in Electromagnetic Problems. IEEE Transactions on Electromagnetic Compatibility, 2008, 50, 325-332.	2.2	36
4	Evaluation and Modeling of Cross Saturation Due to Leakage Flux in Vector-Controlled Induction Machines. IEEE Transactions on Industry Applications, 2007, 43, 694-702.	4.9	25
5	Extended Capability Models for Carbon Fiber Composite (CFC) Panels in the Unstructured Transmission Line Modeling (UTLM) Method. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 811-819.	2.2	16
6	Time domain simulation in photonics: A comparison of nonlinear dispersive polarisation models. Optical and Quantum Electronics, 2005, 37, 3-24.	3.3	15
7	A novel photonic crystal band-pass filter using degenerate modes of a point-defect microcavity for terahertz communication systems. Microwave and Optical Technology Letters, 2014, 56, 792-797.	1.4	12
8	Holistic Appraisal of Modeling Installed Antennas for Aerospace Applications. IEEE Transactions on Antennas and Propagation, 2019, 67, 1396-1409.	5.1	10
9	Subsampling of fine features in finite-difference frequency-domain simulations. Microwave and Optical Technology Letters, 2005, 44, 95-101.	1.4	9
10	Impact of *In Situ* Radome Lightning Diverter Strips on Antenna Performance. IEEE Transactions on Antennas and Propagation, 2020, 68, 7287-7296.	5.1	8
11	Extracting modal field profiles from 3D unstructured transmission line modelling meshes for use as sources and observers. IET Science, Measurement and Technology, 2017, 11, 780-785.	1.6	8
12	Efficient broadband simulations for thin optical structures. Optical and Quantum Electronics, 2013, 45, 343-348.	3.3	6
13	Coupled Electrothermal Two-Dimensional Model for Lightning Strike Prediction and Thermal Modeling Using the TLM Method. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2017, 2, 38-48.	2.2	6
14	Efficient Time Domain Modeling of Rib Waveguide RF Modulators. Journal of Lightwave Technology, 2006, 24, 5044-5053.	4.6	5
15	Fourth-order accurate sub-sampling for finite-difference analysis of surface plasmon metallic waveguides. Microwave and Optical Technology Letters, 2008, 50, 995-1000.	1.4	5
16	Generating Radome Geometries for Full Lightning Protection Studies. , 2019, , .		5
17	A note on material losses in unstructured transmission line modeling. Microwave and Optical Technology Letters, 2015, 57, 2218-2222.	1.4	4
18	Numerical simulation of electromagnetic coupling in explicitly meshed wiring looms and bundles. IET Science, Measurement and Technology, 2018, 12, 176-181.	1.6	4

#	Article	IF	Citations
19	Systematic Generation of Arbitrary Antenna Geometries. IEEE Transactions on Antennas and Propagation, 2022, 70, 6377-6387.	5.1	4
20	Resonant frequency and Q factor extraction from temporal responses of ultra‐high Q optical resonators. IET Science, Measurement and Technology, 2014, 8, 277-284.	1.6	2
21	Simulation Platform for Flexible Electronics. , 2021, , .		2
22	The 2002 International Workshop on Optical Waveguide Theory and Numerical Modelling. Optical and Quantum Electronics, 2003, 35, 295-296.	3.3	0
23	Channel characterization for wireless propagation in reverberant environments. , 2008, , .		0
24	A Simple Full-Vectorial Finite-Difference Equation for Arbitrarily Positioned Dielectric Interfaces. IEEE Photonics Technology Letters, 2009, 21, 1505-1507.	2.5	0
25	Assessment of accuracy and runtime trade-offs in unstructured TLM meshes for electromagnetic simulations. , 2013, , .		0
26	Dispersion in the 2D unstructured transmission line modelling (UTLM) method. , 2015, , .		0
27	An Effective Stretched Coordinate TLM-PML Suitable for Analyzing Planar Periodic Structures. IEEE Microwave and Wireless Components Letters, 2020, 30, 725-728.	3.2	0
28	Stretched‐coordinate PML in 2D TLM simulations. IET Science, Measurement and Technology, 2020, 14, 272-277.	1.6	0
29	EM performance of segmented diverter strips used in lightning protection of wind turbine blades. , 2021, , .		0
30	Impact of Torsion on Flexible Interconnects. , 2022, , .		0