

Ata Zadehgol

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Characterizing THz Scattering Loss in Nano-Scale SOI Waveguides Exhibiting Stochastic Surface Roughness with Exponential Autocorrelation. <i>Electronics (Switzerland)</i> , 2022, 11, 307.	3.1	6
2	A Parametric Integral Formulation to Approximate the Magneto Quasi-Static Fields of 3-D Cylindrical Solenoids With Helical Winding. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-13.	2.1	2
3	Complex s-Plane Modeling and 2D Characterization of the Stochastic Scattering Loss in Symmetric Dielectric Slab Waveguides Exhibiting Ergodic Surface-Roughness With an Exponential Autocorrelation Function. <i>IEEE Access</i> , 2021, 9, 92326-92344.	4.2	4
4	Stochastic FDTD Modeling of Propagation Loss due to Random Surface Roughness in Sidewalls of Optical Interconnects. , 2021, , .		4
5	S-Parameter Extraction Methodology in FDTD for Nano-Scale Optical Interconnects. , 2021, , .		1
6	Stability, Causality, and Passivity Analysis of Canonical Equivalent Circuits of Improper Rational Transfer Functions With Real Poles and Residues. <i>IEEE Access</i> , 2020, 8, 125149-125162.	4.2	9
7	A Methodology for Remote Sensing Inter-Turn Fault Events in Power System Air-Core Reactors, via Simulation of Magneto Quasi-Static Fields in 2D FDTD. <i>IEEE Access</i> , 2020, 8, 175727-175740.	4.2	4
8	Predicting Instability in Transient Simulations, using Complex Numerical Impulse Response. , 2019, , .		0
9	An Ultra-thin Triple-band Smartwatch Antenna with Support of Several Wireless Application Bands. , 2019, , .		3
10	Parallel, Optimized, Error Maxima-Agnostic, Pole Residue Equivalent System Solver. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018, 8, 5-12.	2.5	1
11	A novel iterative algorithm for approximating equivalent circuits of numerical transfer functions. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2018, 31, e2202.	1.9	2
12	Passivity verification and enforcementâ€™A review paper. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2018, 31, e2286.	1.9	8
13	An Ultra-thin Dual-Band Smart-watch Antenna Compatible with Several Wireless Bands. , 2018, , .		1
14	Causality Verification using a First-Order Chebyshev Filter. , 2018, , .		1
15	Multiband antenna for wireless applications including GSM/UMTS/LTE and 5G bands. , 2018, , .		6
16	Guest editorial for the Special Issue on signal and power integrity of microelectronic networks through modelling and simulation of fields and devices. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2018, 31, e2457.	1.9	1
17	A novel method for identifying complex zeros by searching the laplace-plane for local minima. , 2017, , .		0
18	Electrically small PCB stack hemispherical helix antenna with air core. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
19	An Impedance Transfer Function Formulation for Reduced-Order Macromodels of Subgridded Regions in FDTD. IEEE Transactions on Antennas and Propagation, 2017, 65, 401-404.	5.1	3
20	Reduced-order stochastic electromagnetic macro-Models for uncertainty characterization of 3-D band-gap structures, in FDTD. , 2017, , .		0
21	A semi-analytic and cellular approach to rational system characterization through equivalent circuits. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2016, 29, 637-652.	1.9	14
22	Design and simulation of a four-arm hemispherical helix antenna realized through a stacked printed circuit board structure. , 2016, , .		1
23	On the sensitivity of causality filter parameters. , 2016, , .		0
24	Passivity considerations for sub-gridded FDTD with discrete complex wave impedance. , 2016, , .		2
25	Verification and enforcement of passivity through direct minimal modification of equivalent circuits. , 2016, , .		2
26	A novel algorithm for computing the zeros of transfer functions by local minima. , 2016, , .		1
27	A novel iterative method for approximating frequency response with equivalent pole/residues. , 2016, , .		2
28	Deterministic Reduced-Order Macromodels for Computing the Broadband Radiation-Field Pattern of Antenna Arrays in FDTD. IEEE Transactions on Antennas and Propagation, 2016, 64, 2418-2430.	5.1	9
29	A frequency-independent and parallel algorithm for computing the zeros of strictly proper rational transfer functions. Applied Mathematics and Computation, 2016, 274, 229-236.	2.2	4
30	Signal and power integrity of microelectronic networks through modelling and simulation of fields and devices. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2016, 29, 544-544.	1.9	1
31	A novel method for equivalent circuit synthesis from frequency response of multi-port networks. , 2016, , .		10
32	Coarse-to-fine malleable Pole/Residue Equivalent System Solver (COMPRESS). , 2016, , .		2
33	Stochastic Reduced-Order Electromagnetic Macromodels in FDTD. IEEE Transactions on Antennas and Propagation, 2016, 64, 3496-3508.	5.1	6
34	Pole residue equivalent system solver (PRESS). , 2016, , .		10
35	An efficient approximation for arbitrary port suppression of multipoint scattering parameters. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2014, 27, 164-172.	1.9	1
36	Isotropic Spatial Filters for Suppression of Spurious Noise Waves in Sub-Gridded FDTD Simulation. IEEE Transactions on Antennas and Propagation, 2011, 59, 3272-3279.	5.1	12

#	ARTICLE	IF	CITATIONS
37	A model for the quantitative electromagnetic analysis of an infinitely long solenoid with a laminated core. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2011, 24, 244-256.	1.9	3