

Ding Yu Heh

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	GPU-ACCELERATED FUNDAMENTAL ADI-FDTD WITH COMPLEX FREQUENCY SHIFTED CONVOLUTIONAL PERFECTLY MATCHED LAYER. Progress in Electromagnetics Research M, 2010, 14, 177-192.	0.5	21
2	ADI-FDTD Method With Fourth Order Accuracy in Time. IEEE Microwave and Wireless Components Letters, 2008, 18, 296-298.	2.0	20
3	MODELING THE INTERACTION OF TERAHERTZ PULSE WITH HEALTHY SKIN AND BASAL CELL CARCINOMA USING THE UNCONDITIONALLY STABLE FUNDAMENTAL ADI-FDTD METHOD. Progress in Electromagnetics Research B, 2012, 37, 365-386.	0.7	16
4	FDTD Modeling for Dispersive Media Using Matrix Exponential Method. IEEE Microwave and Wireless Components Letters, 2009, 19, 53-55.	2.0	13
5	Stable Formulation of FADI-FDTD Method for Multiterm, Doubly, Second-Order Dispersive Media. IEEE Transactions on Antennas and Propagation, 2013, 61, 4167-4175.	3.1	13
6	Stability Analyses of Nonuniform Time-Step LOD-FDTD Methods for Electromagnetic and Thermal Simulations. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2017, 2, 183-193.	1.4	13
7	Unconditionally Stable Multiple One-Dimensional ADI-FDTD Method for Coupled Transmission Lines. IEEE Transactions on Antennas and Propagation, 2018, 66, 7488-7492.	3.1	13
8	DISPERSION ANALYSIS OF FDTD SCHEMES FOR DOUBLY LOSSY MEDIA. Progress in Electromagnetics Research B, 2009, 17, 327-342.	0.7	11
9	Teaching and Learning Electromagnetic Polarization Using Mobile Devices [Education Corner]. IEEE Antennas and Propagation Magazine, 2018, 60, 112-121.	1.2	11
10	Corrected Impulse Invariance Method in Z-Transform Theory for Frequency-Dependent FDTD Methods. IEEE Transactions on Antennas and Propagation, 2009, 57, 2683-2690.	3.1	9
11	Lyapunov and Matrix Norm Stability Analysis of ADI-FDTD Schemes for Doubly Lossy Media. IEEE Transactions on Antennas and Propagation, 2011, 59, 979-986.	3.1	8
12	Multiple 1-D Fundamental ADI-FDTD Method for Coupled Transmission Lines on Mobile Devices. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2019, 4, 198-206.	1.4	8
13	Modeling hemoglobin at optical frequency using the unconditionally stable fundamental ADI-FDTD method. Biomedical Optics Express, 2011, 2, 1169.	1.5	7
14	Application of Belevitch Theorem for Pole-Zero Analysis of Microwave Filters With Transmission Lines and Lumped Elements. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 4669-4676.	2.9	7
15	Divergence-Preserving Alternating Direction Implicit Scheme for Multi-Pole Debye Dispersive Media. IEEE Microwave and Wireless Components Letters, 2014, 24, 69-71.	2.0	6
16	Demonstration of electromagnetic polarization app on iPad. , 2017, , .		6
17	Teaching and Learning Electromagnetic Plane Wave Reflection and Transmission Using 3D TV [Education Corner]. IEEE Antennas and Propagation Magazine, 2019, 61, 101-108.	1.2	6
18	Multiple LOD-FDTD Method for Multiconductor Coupled Transmission Lines. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2020, 5, 201-208.	1.4	6

#	ARTICLE	IF	CITATIONS
19	Generalized Stability Criterion of 3-D FDTD Schemes for Doubly Lossy Media. IEEE Transactions on Antennas and Propagation, 2010, 58, 1421-1425.	3.1	5
20	Complex-envelope LOD-FDTD method for ionospheric propagation. , 2016, , .		5
21	M1-D FDTD Methods for Mobile Interactive Teaching and Learning of Wave Propagation in Transmission Lines [Education Corner]. IEEE Antennas and Propagation Magazine, 2019, 61, 119-126.	1.2	5
22	Split-Step Finite-Difference Time-Domain Method with fourth order accuracy in time. , 2008, , .		4
23	Further Reinterpretation of Multi-Stage Implicit FDTD Schemes. IEEE Transactions on Antennas and Propagation, 2014, 62, 4407-4411.	3.1	4
24	Multiple LOD-FDTD Method for Inhomogeneous Coupled Transmission Lines and Stability Analyses. IEEE Transactions on Antennas and Propagation, 2020, 68, 2198-2205.	3.1	4
25	Modeling Debye dispersive media using efficient ADI-FDTD method. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	3
26	Some recent developments in fundamental implicit FDTD schemes. , 2012, , .		3
27	Mobile Teaching and Learning of Coupled-Line Structures: The multiple-1D coupled-line finite-difference time-domain method. IEEE Antennas and Propagation Magazine, 2020, 62, 62-69.	1.2	3
28	Numerical Stability Analysis of M1-D ADI-FDTD Method for Coupled Transmission Lines. , 2019, , .		2
29	Corrected impulse invariance method for dispersive media using FDTD. , 2008, , .		1
30	Fundamental ADI-FDTD method for multiple-pole Debye dispersive media. , 2012, , .		1
31	Mobile device aided teaching and learning of electromagnetic polarization. , 2017, , .		1
32	Source-Incorporated M1-D FADI-FDTD Method for Coupled Transmission Lines. , 2019, , .		0
33	Demonstration of Electromagnetic Plane Wave Reflection and Transmission on iPad. , 2020, , .		0
34	Simulation of Coupled Transmission Lines on Mobile Devices using Multiple One-Dimensional Coupled Line FDTD Methods. , 2019, , .		0
35	Comparison of Vector Fitting and Contour Integration Methods for Pole-Zero Analysis of Microwave Filters. , 2020, , .		0