Jean-Pierre BÃ©renger

List of Publications by Year
in descending order

28 papers	9,658 citations	932766 10 h-index	676716 22 g-index
29 all docs	29 docs citations	29 times ranked	5035 citing authors

#	Article	IF	Citations
1	A perfectly matched layer for the absorption of electromagnetic waves. Journal of Computational Physics, 1994, 114, 185-200.	1.9	8,574
2	Three-Dimensional Perfectly Matched Layer for the Absorption of Electromagnetic Waves. Journal of Computational Physics, 1996, 127, 363-379.	1.9	853
3	A FDTD scheme for the computation of VLF-LF propagation in the anisotropic earth-ionosphere waveguide. Annales Des Telecommunications/Annals of Telecommunications, 1999, 54, 297-310.	1.6	50
4	FDTD computation of vlf-lf propagation in the Earth-ionosphere waveguide. Annales Des Telecommunications/Annals of Telecommunications, 2002, 57, 1059-1090.	1.6	34
5	The Huygens subgridding for the numerical solution of the Maxwell equations. Journal of Computational Physics, 2011, 230, 5635-5659.	1.9	28
6	On the Huygens absorbing boundary conditions for electromagnetics. Journal of Computational Physics, 2007, 226, 354-378.	1.9	22
7	An implicit FDTD scheme for the propagation of VLF–LF radio waves in the Earth–ionosphere waveguide. Comptes Rendus Physique, 2014, 15, 393-402.	0.3	18
8	Subcell Modeling of Frequency-Dependent Thin Layers in the FDTD Method. IEEE Transactions on Antennas and Propagation, 2017, 65, 278-286.	3.1	15
9	Origin of Parasitic Solutions With Holland and Simpson Thin Wires in the FDTD Grid. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 487-494.	1.4	12
10	FDTD propagation of VLF-LF waves in the presence of ions in the earth-ionosphere waveguide. Annales Des Telecommunications/Annals of Telecommunications, 2020, 75, 437-446.	1.6	11
11	A perfectly matched layer for free-space simulation in finite-difference computer codes. Annales Des Telecommunications/Annals of Telecommunications, 1996, 51, 39-46.	1.6	10
12	Singularity Problem With the One-sheet Huygens Subgridding Method. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 992-995.	1.4	5
13	Implementation of the Huygens Absorbing Boundary Condition in Corner Regions. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 367-374.	1.4	3
14	An effective FDTD scheme for the propagation of VLF-LF radiowaves in the Earth-Ionosphere waveguide. , 2014, , .		3
15	The Stretched-Mesh Huygens Absorbing Boundary Condition (SM-HABC). IEEE Transactions on Antennas and Propagation, 2014, 62, 3100-3107.	3.1	3
16	Huygens Excitation in Debye Media in the FDTD Method. IEEE Transactions on Antennas and Propagation, 2016, 64, 3632-3635.	3.1	3
17	An Operator Absorbing Boundary Condition for the Absorption of Electromagnetic Waves in Dispersive Media. IEEE Transactions on Antennas and Propagation, 2018, 66, 2147-2150.	3.1	3
18	Propagation and Aliasing of High Frequencies in the FDTD Grid. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 117-124.	1.4	2

#	Article	IF	Citations
19	Comparison of the Standard Differencing With the Exponential Differencing for the FDTD Method in Lossy Media. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2018, 3, 295-302.	1.4	2
20	Theoretical Comparison of Methods for Modeling Thin Dielectric or Conducting Sheets in the FDTD Grid. IEEE Transactions on Antennas and Propagation, 2019, 67, 601-605.	3.1	2
21	Maloney and Smith Method for Modeling Debye-Media Thin Sheets in the FDTD Grid. IEEE Transactions on Antennas and Propagation, 2021, 69, 2209-2217.	3.1	2
22	Stability of the FDTD Method With Holland and Simpson Thin Wires. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 880-887.	1.4	2
23	Huygens absorbing boundary condition. , 2014, , .		0
24	The performance of the CUDA implementations of HABC and CFS-PML ABCs on GPU hardware. , 2014, , .		0
25	FDTD modelling of electrically thin frequency dependent layers in large-scale electromagnetic problems. , 2015, , .		0
26	Propagation of arbitrarily high frequencies in the FDTD grid. , 2015, , .		0
27	Theoretical Investigation of the Reflection From Impedance Absorbing Boundary Conditions. IEEE Microwave and Wireless Components Letters, 2018, 28, 543-545.	2.0	0
28	FDTD Algorithm for Numerical Anatomical Models With Cells Containing Several Debye Media. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 947-950.	1.4	0