Dirk Schulz

List of Publications by Year
in descending order

18 papers	89 citations	1478505 6 h-index	1588992 8 g-index
18 all docs	18 docs citations	18 times ranked	31 citing authors

#	Article	IF	Citations
1	Faber Polynomial Based Approximations of Nonlinear Integrators for Electrodynamics. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2021, 6, 41-49.	2.2	0
2	Subdomain-based exponential integrators for quantum Liouville-type equations. Journal of Computational Electronics, 2021, 20, 2070-2090.	2.5	7
3	Formulation of a phase space exponential operator for the Wigner transport equation accounting for the spatial variation of the effective mass. Journal of Computational Electronics, 2020, 19, 1399-1415.	2.5	7
4	Time-Resolved Mode Space based Quantum-Liouville type Equations applied onto DGFETs. , 2020, , .		2
5	Complex envelope Faber polynomial method for the solution of Maxwell's equations. Optical and Quantum Electronics, 2019, 51, 1.	3.3	0
6	Complex Absorbing Potential Formalism Accounting for Open Boundary Conditions Within the Wigner Transport Equation. IEEE Nanotechnology Magazine, 2019, 18, 830-838.	2.0	14
7	Assessment of a Time Domain Beam Propagation Algorithm Based on Faber Polynomial Expansions. , 2019, , .		2
8	Explicit Wideband Time-Domain Beam Propagation Algorithm Based on Faber Polynomials. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2019, 4, 282-289.	2.2	0
9	Unitary Polynomial Propagator Solving Maxwell's Equations Allowing Arbitrarily Large Time Steps. IEEE Photonics Technology Letters, 2018, 30, 193-196.	2.5	0
10	Boundary Concepts for an Improvement of the Numerical Solution with regard to the Wigner Transport Equation. , 2018, , .		3
11	On the Evaluation of Sources in Highly Accurate Time Domain Simulations on the Basis of Faber Polynomials. , 2018, , .		2
12	Concept of a Complex Envelope Faber Polynomial Approach for the Solution of Maxwell's Equations. , 2018, , .		2
13	Numerical Analysis of the Transient Behavior of the Non-Equilibrium Quantum Liouville Equation. IEEE Nanotechnology Magazine, 2018, 17, 1197-1205.	2.0	12
14	Time Domain Solution of Maxwell's Equations Using Faber Polynomials. IEEE Transactions on Antennas and Propagation, 2018, 66, 6202-6208.	5.1	7
15	Self-Energy Concept for the Numerical Solution of the Liouville-von Neumann Equation. IEEE Nanotechnology Magazine, 2017, 16, 1053-1061.	2.0	6
16	Application of a Slowly Varying Envelope Function Onto the Analysis of the Wigner Transport Equation. IEEE Nanotechnology Magazine, 2016, 15, 801-809.	2.0	6
17	Approximation of a Phase Space Operator for the Numerical Solution of the Wigner Equation. IEEE Journal of Quantum Electronics, 2016, 52, 1-9.	1.9	19
18	Fourier Expansion of the Beam Propagation Operator in the Eigenvalue Domain. Journal of Lightwave Technology, 2014, 32, 4519-4527.	4.6	0