Luigi Lombardi

List of Publications by Year in Descending Order

24 papers	114 citations	6 h-index	8 g-index
27 ext. papers	150 ext. citations	2.2 avg, IF	3.1 L-index

#	Paper	IF	Citations
24	Time-Domain Analysis of Retarded Partial Element Equivalent Circuit Models Using Numerical Inversion of Laplace Transform. *IEEE Transactions on Electromagnetic Compatibility*, **2021**, 63, 870-879	2	3
23	Accurate Calculation of Partial Inductances for the Orthogonal PEEC Formulation. *IEEE Transactions on Electromagnetic Compatibility*, **2021**, 63, 82-92	2	5
22	Efficient Computation of Partial Elements in the Full-Wave Surface-PEEC Method. *IEEE Transactions on Electromagnetic Compatibility*, **2021**, 63, 1189-1201	2	3
21	Full-Wave Computation of the Electric Field in the Partial Element Equivalent Circuit Method Using Taylor Series Expansion of the Retarded Green Function. *IEEE Transactions on Microwave Theory and Techniques*, **2020**, 68, 3242-3254	4.1	2
20	Automated Framework for Time-Domain Piecewise-Linear Fitting Method Based on Digital Wave Processing of S -Parameters. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2020**, 67, 235-248	3.9	2
19	Efficient Numerical Computation of Full-Wave Partial Elements Modeling Magnetic Materials in the PEEC Method. *IEEE Transactions on Microwave Theory and Techniques*, **2020**, 68, 915-925	4.1	4
18	Parameterized Model Order Reduction of Delayed PEEC Circuits. *IEEE Transactions on Electromagnetic Compatibility*, **2020**, 62, 859-869	2	6
17	Magnetic Coupling Between Coplanar Filamentary Coil Antennas With Uniform Current. *IEEE Transactions on Electromagnetic Compatibility*, **2020**, 62, 622-626	2	2
16	Analytical Formulas for the Computation of the Electric Field in the Partial Element Equivalent Circuit Method With Conductive, Dielectric, and Magnetic Media. *IEEE Transactions on Magnetics*, **2019**, 55, 1-13	2	2
15	Marching-on-in-time solution of delayed PEEC models of conductive and dielectric objects. *IET Microwaves, Antennas and Propagation*, **2019**, 13, 42-47	1.6	7
14	Adjoint Time-Domain Sensitivity of retarded PEEC using the Numerical Inversion of Laplace Transform **2019**,		1
13	Impulse Response for Full Wave PEEC Models avoiding late time instability **2019**,		3
12	Time-Domain Sensitivity Analysis of Delayed Partial Element Equivalent Circuits. *IEEE Transactions on Electromagnetic Compatibility*, **2019**, 61, 1465-1473	2	3
11	On the Distortionless Propagation in Multiconductor Transmission Lines. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2018**, 8, 538-545	1.7	6
10	Analytical Evaluation of Partial Elements Using a Retarded Taylor Series Expansion of the Green Function. *IEEE Transactions on Microwave Theory and Techniques*, **2018**, 66, 2116-2127	4.1	13
9	Electrothermal formulation of the partial element equivalent circuit method. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2018**, 31, e2253	1	11
8	Acceleration of the partial element equivalent circuit method with uniform tessellation Part I: Identification of geometrical signatures. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2018**, 31, e2307	1	5

List of Publications

7	Acceleration of the partial element equivalent circuit method with uniform tessellation—Part II: Frequency domain solver with interpolation and reuse of partial elements. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2018**, 31, e2306	1	4
6	Parametric Simulation of PEEC Circuits in the Frequency-Domain **2018**,		1
5	Analytical Formula for the Magnetic-to-Electric Field Coupling of Magnetization in the Partial Element Equivalent Circuit Method. *IEEE Transactions on Magnetics*, **2018**, 54, 1-12	2	5
4	Accurate and Efficient Low-Frequency Solution of Partial Element Equivalent Circuit Models. *IEEE Transactions on Electromagnetic Compatibility*, **2017**, 59, 1514-1522	2	8
3	Analytical evaluation of partial inductances with retardation **2017**,		4
2	Partial Element Equivalent Circuit Method Modeling of Silicon Interconnects. *IEEE Transactions on Microwave Theory and Techniques*, **2017**, 65, 4794-4801	4.1	7
1	Digital Wave Simulation of Quasi-Static Partial Element Equivalent Circuit Method. *IEEE Transactions on Electromagnetic Compatibility*, **2017**, 59, 429-438	2	4