

Luca Pierantoni

List of Publications by Year in descending order

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171
papers

1,209
citations

471061

17
h-index

500791

28
g-index

175
all docs

175
docs citations

175
times ranked

920
citing authors

#	ARTICLE	IF	CITATIONS
1	MacGyvered Multiproperty Materials Using Nanocarbon and Jam: A Spectroscopic, Electromagnetic, and Rheological Investigation. <i>Journal of Functional Biomaterials</i> , 2022, 13, 5.	1.8	1
2	Phase Properties of Different HfO ₂ Polymorphs: A DFT-Based Study. <i>Crystals</i> , 2022, 12, 90.	1.0	19
3	Inverted Scanning Microwave Microscopy of a Vital Mitochondrion in Liquid. <i>IEEE Microwave and Wireless Components Letters</i> , 2022, 32, 804-806.	2.0	3
4	Tunable and Miniaturized Microwave Filters Using Carbon Nanotube-Based Variable Capacitors. <i>IEEE Nanotechnology Magazine</i> , 2022, 21, 118-130.	1.1	7
5	Geometric Diode Modeling for Energy Harvesting Applications. , 2022, , .		1
6	Heterodyne phase shifting method in scanning probe microscopy. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2021, 38, 378.	0.8	1
7	Dirac Equation-Based Formulation for the Quantum Conductivity in 2D-Nanomaterials. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2398.	1.3	3
8	Reversing the Humidity Response of MoS ₂ - and WS ₂ -Based Sensors Using Transition-Metal Salts. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23201-23209.	4.0	8
9	A High-Gain CNTFET-Based LNA Developed Using a Compact Design-Oriented Device Model. <i>Electronics (Switzerland)</i> , 2021, 10, 2835.	1.8	2
10	Optomechanics of Chiral Dielectric Metasurfaces. <i>Advanced Optical Materials</i> , 2020, 8, 1901507.	3.6	24
11	Coupling of Integrated Waveguide and Optomechanic Cavity for Microwave Phonon Excitation in Si Nanobeams. <i>Photonics</i> , 2020, 7, 67.	0.9	2
12	Efficient and Versatile Modeling of Mono- and Multi-Layer MoS ₂ Field Effect Transistor. <i>Electronics (Switzerland)</i> , 2020, 9, 1385.	1.8	4
13	A Compact and Robust Technique for the Modeling and Parameter Extraction of Carbon Nanotube Field Effect Transistors. <i>Electronics (Switzerland)</i> , 2020, 9, 2199.	1.8	2
14	Modeling and Electrochemical Characterization of Electrodes Based on Epoxy Composite with Functionalized Nanocarbon Fillers at High Concentration. <i>Nanomaterials</i> , 2020, 10, 850.	1.9	8
15	Cosec 2 hybrid travelling/resonant antenna for maritime surveillance applications. <i>IET Microwaves, Antennas and Propagation</i> , 2020, 14, 223-232.	0.7	1
16	Dynamics of Optical Vortices in Speckle Patterns with Sub-Nanometric Spectral Resolution. , 2020, , .		0
17	Advanced numerical investigation of the heat flux in an array of microbolometers. <i>Scientific Reports</i> , 2019, 9, 11078.	1.6	1
18	Blisters on graphite surface: a scanning microwave microscopy investigation. <i>RSC Advances</i> , 2019, 9, 23156-23160.	1.7	5

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19	Nano-scale electronics: rigorous quantum study of a single molecule device. , 2019, , .		0
20	Conversion between surface acoustic waves and guided modes of a quasi-periodic structured nanobeam. Journal Physics D: Applied Physics, 2019, 52, 32LT01.	1.3	13
21	Synthetic optical holography for in-depth imaging of optical vortices in speckle patterns. AIP Advances, 2019, 9, 015211.	0.6	4
22	Birth and Development of the "Electromagnetic Fields" Group. , 2019, , 23-36.		0
23	10.1063/1.5053564.1. , 2019, , .		0
24	Mid-infrared optical characterization of thin SiN _x membranes. Applied Optics, 2019, 58, 5233.	0.9	4
25	The Electromagnetic framework of "Nanoarchitectronics", 2018, , .		0
26	Efficient and versatile multiphysics/multiscale 3D model of fullerene single electron device. , 2018, , .		0
27	Ab-initio simulation of single carbon-cluster electron device. , 2018, , .		0
28	Rigorous Model of Nonlinear Optomechanical Coupling in Micro- and Nano-Structured Resonant Cavities. , 2018, , .		0
29	Numerical emulation of Thru-Reflection-Line calibration for the de-embedding of Surface Acoustic Wave devices. Scientific Reports, 2018, 8, 9256.	1.6	1
30	Transformation Optics: Large Multiphysics Simulation of Nonlinear Optomechanical Coupling in Microstructured Resonant Cavities. IEEE Microwave Magazine, 2018, 19, 79-84.	0.7	0
31	Electromagnetic Amplification of Microwave Phonons in Nonlinear Resonant Microcavities. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3603-3610.	2.9	2
32	First order iterative learning control for a single axis piezostage system. , 2018, , .		0
33	Rigorous simulation of nonlinear optomechanical coupling in micro- and nano-structured resonant cavities. International Journal of Optomechatronics, 2018, 12, 11-19.	3.3	3
34	Low-dimensional materials for optically-assisted microwave applications. , 2017, , .		0
35	Evaluating CNT-Based Interconnects : A Numerical Tool to Characterize Hybrid CNT-Copper Interconnects. IEEE Microwave Magazine, 2017, 18, 124-129.	0.7	3
36	Nano Probing for Microwave Engineers: Calculating Probe-Sample Capacitance and Charge Distribution of a Near-Field Scanning Microwave Microscope on a Nanoscale. IEEE Microwave Magazine, 2017, 18, 71-75.	0.7	5

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37	THz plasmonic resonances in hybrid reduced-graphene-oxide and graphene patterns for sensing applications. <i>Optical Data Processing and Storage</i> , 2017, 3, .	3.3	5
38	Electro-thermal and quantum analysis of CNT-based interconnections. , 2017, , .		0
39	Eigenvalues approach for the analysis of plasmon propagation on a graphene layer. , 2017, , .		1
40	Synthetic holography at infrared wavelength for nanostructure imaging: Scanning microscopy based on extrinsic microcavity. , 2017, , .		0
41	Accurate analysis of plasmon propagation in metal and graphene nanostructures. , 2017, , .		0
42	Rigorous simulation of opto-mechanically modulated electromagnetic micro- and nano-cavities. , 2017, , .		2
43	A multi-physics approach for the analysis and design of optomechanical cavities. , 2017, , .		1
44	Accurate analysis of plasmon propagation in metal and graphene nanostructures. , 2017, , .		0
45	Developments of microwave microscopy for application to biological samples. , 2017, , .		5
46	Ballistic Ratchet effect on patterned graphene. <i>Integrated Ferroelectrics</i> , 2016, 176, 28-36.	0.3	1
47	Efficient and versatile graphene-based multilayers for EM field absorption. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	19
48	Plasmon Modes in Extrinsic Graphene: Ab initio Simulations vs Semi-classical Models. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2016, , 125-144.	0.2	3
49	Vertically aligned CNT-Cu nano-composite material for stacked through-silicon-via interconnects. <i>Nanotechnology</i> , 2016, 27, 335705.	1.3	43
50	Rigorous simulation of ballistic graphene-based transistor. , 2016, , .		2
51	Learning by Using Graphene Multilayers: An Educational App for Analyzing the Electromagnetic Absorption of a Graphene Multilayer Based on a Network Model. <i>IEEE Microwave Magazine</i> , 2016, 17, 44-51.	0.7	7
52	Electrical conductivity of graphene: a time-dependent density functional theory study. , 2015, , .		1
53	Ballistic simulation of Ratchet effect in antidot lattices patterned on graphene. , 2015, , .		0
54	Spatial dispersion effects upon local excitation of extrinsic plasmons in a graphene micro-disk. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 465104.	1.3	23

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55	Applications of Graphene at Microwave Frequencies. Radioengineering, 2015, 24, 661-669.	0.3	82
56	Ballistic simulation of Ratchet effect in antidot lattices patterned on graphene. , 2015, , .		0
57	Comparison of rigorous vs approximate methods for accurate calculation of 2D-materials band structures and applications to THz nanoelectronics. , 2015, , .		1
58	Back-gate bias of a graphene antenna via a smart background metallization. , 2015, , .		2
59	A tunable microwave slot antenna based on graphene. Applied Physics Letters, 2015, 106, .	1.5	67
60	Broadband Microwave Attenuator Based on Few Layer Graphene Flakes. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2491-2497.	2.9	113
61	Electromagnetic characterization of graphene and graphene nanoribbons via ab-initio permittivity simulations. , 2015, , .		1
62	Innovative full wave modeling of plasmon propagation in graphene by dielectric permittivity simulations based on density functional theory. , 2015, , .		5
63	Microwave characterization of anisotropic graphene by applying the Duality theorem. Journal of Computational Electronics, 2015, 14, 214-221.	1.3	4
64	Full-wave techniques for the electromagnetic-quantum transport modeling in nano-devices. , 2014, , .		0
65	Numerical simulation of the combined quantum-electromagnetic problem in nano-structured devices. , 2014, , .		0
66	Electromagnetic simulators for the modelling of magnetically biased graphene. , 2014, , .		0
67	Graphene as a tunable resistor. , 2014, , .		4
68	Microwave applications of graphene for tunable devices. , 2014, , .		1
69	On the use of electrostatically doped graphene: Analysis of microwave attenuators. , 2014, , .		17
70	Advanced techniques for the band structure-quantum transport modeling in graphene and 2D-materials beyond graphene. , 2014, , .		0
71	Microwave applications of graphene for tunable devices. , 2014, , .		9
72	Radio-frequency nanoelectronics — Bridging the gap between nanotechnology and R.F. engineering applications. , 2014, , .		0

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73	Efficient characterization of the electromagnetic-coupling of wire antennas- and graphene patches. , 2014, , .		0
74	Graphene-based electronically tunable microstrip attenuator. , 2014, , .		21
75	Nanoscale modeling of three-contacts graphene ballistic junctions: Analysis of the non-linear transport. , 2014, , .		0
76	Graphene-Based Electronically Tuneable Microstrip Attenuator. Nanomaterials and Nanotechnology, 2014, 4, 18.	1.2	19
77	Nanoscale Simulation of Three-Contact Graphene Ballistic Junctions. Nanomaterials and Nanotechnology, 2014, 4, 14.	1.2	4
78	Measurement Techniques for RF Nanoelectronics [From the Guest Editors' Desk]. IEEE Microwave Magazine, 2014, 15, 26-28.	0.7	4
79	Graphene-based wireless communications systems: Analysis of the EM-quantum transport of coupled nano-patch antennas. , 2013, , .		0
80	Design of a coplanar graphene-based nano-patch antenna for microwave application. , 2013, , .		16
81	Graphene modeling by TLM approach. , 2012, , .		1
82	Multiphysics techniques for the electromagnetic/coherent-transport problem in carbon nanodevices: Analysis of the metal-carbon transition. , 2012, , .		2
83	Numerical Techniques for the Analysis of Charge Transport and Electrodynamics in Graphene Nanoribbons. Nanomaterials and Nanotechnology, 2012, 2, 13.	1.2	6
84	Analysis of the Metal Work Function Dependence of Charge Transfer in Contacted Graphene Nanoribbons. Nanomaterials and Nanotechnology, 2012, 2, 12.	1.2	7
85	Advanced techniques for the investigation of the combined electromagnetic-quantum transport phenomena in carbon nanodevices. , 2012, , .		1
86	Extending ballistic graphene FET lumped element models to diffusive devices. Solid-State Electronics, 2012, 76, 8-12.	0.8	17
87	Self-consistent simulation of local potential in external-gate biased graphene nanoribbons. , 2011, , .		0
88	A Multichannel Model for the Self-Consistent Analysis of Coherent Transport in Graphene Nanoribbons. ACS Nano, 2011, 5, 6109-6118.	7.3	19
89	Towards a Unified Approach to Electromagnetic Fields and Quantum Currents From Dirac Spinors. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2587-2594.	2.9	12
90	Microwave Nanopackaging and Interconnects [From the Guest Editor's Desk]. IEEE Microwave Magazine, 2011, 12, 14-18.	0.7	3

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91	Modeling of the electromagnetic/coherent transport problem in nano-structured materials, devices and systems using combined TLM-FDTD techniques. , 2011, , .		3
92	Analysis of the electromagnetic/coherent transport problem in graphene nanoribbons. , 2011, , .		1
93	Novel Frequency-Domain and Time-Domain Techniques for the Combined Maxwellâ€™Dirac Problem in the Characterization of Nanodevices. , 2011, , 211-225.		0
94	Nanoelectronics: The Paradigm Shift [From the Guest Editors' Desk. IEEE Microwave Magazine, 2010, 11, 8-10.	0.7	17
95	Self-consistent simulation of multi-walled CNT nanotransistors. International Journal of Microwave and Wireless Technologies, 2010, 2, 453-456.	1.5	6
96	RF Nanotechnologyâ€™Concept, Birth, Mission, and Perspectives [Member Benefits. IEEE Microwave Magazine, 2010, 11, 130-137.	0.7	11
97	Scattering matrix approach to multichannel transport in many lead graphene nanoribbons. Nanotechnology, 2010, 21, 155701.	1.3	26
98	A New Analytical Model of Diffraction by 3D Dielectric Corners. IEEE Transactions on Antennas and Propagation, 2009, 57, 2323-2330.	3.1	11
99	Deriving Electromagnetic Fields From the Spinor Solution of the Massless Dirac Equation. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 2907-2913.	2.9	6
100	Boundary Immittance Operators for the SchrÃ–dingerâ€™Maxwell Problem of Carrier Dynamics in Nanodevices. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 1147-1155.	2.9	40
101	A New 3-D Transmission Line Matrix Scheme for the Combined SchrÃ–dingerâ€™Maxwell Problem in the Electronic/Electromagnetic Characterization of Nanodevices. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 654-662.	2.9	58
102	Modelling of multi-wall CNT devices by self-consistent analysis of multichannel transport. Nanotechnology, 2008, 19, 165202.	1.3	13
103	Coherent carrier transport and scattering by lattice defects in single- and multibranch carbon nanoribbons. Physical Review B, 2008, 77, .	1.1	15
104	Optical absorption of carbon nanotube diodes: Strength of the electronic transitions and sensitivity to the electric field polarization. Journal of Applied Physics, 2008, 103, 063103.	1.1	11
105	A new hybrid Transmission Line Matrix-Finite Difference technique for the coupled Maxwell-SchrÃ–dinger problem in the full-wave characterization of nanodevices. , 2007, , .		0
106	Full-Wave Analysis of Electron Wavepacket Propagation in Carbon Nanotube Devices by a new Transmission Line Matrix-Schroedinger Equation (TLM-SE) scheme. , 2007, , .		1
107	Modal and numerical analysis of the transverse magnetic-passing property of laminated cladding. IET Optoelectronics, 2007, 1, 150-156.	1.8	0
108	A transmission line matrix-schroedinger equation technique for the full-wave analysis of carbon nanotubes: Near field characterization. , 2007, , .		0

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109	A General Multigrid-Subgridding Formulation for the Transmission Line Matrix Method. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1709-1716.	2.9	10
110	Realization and Characterization of Organic TwoDimensional Periodic Structures. , 2007, , .		0
111	Efficient modeling of 3-D photonic crystals for integrated optical devices. IEEE Photonics Technology Letters, 2006, 18, 319-321.	1.3	4
112	Analysis of an optical polarizer based on laminated-cover waveguide. Journal of Lightwave Technology, 2006, 24, 1414-1424.	2.7	2
113	Far-field radiation of optical fibers with tapered end. Journal of Lightwave Technology, 2006, 24, 3162-3168.	2.7	15
114	Time-domain modeling and filtering behaviour of guided-wave optics by Hertzian potentials. , 2006, 6183, 307.		0
115	Resonances of 2D MESA periodic structures in integrated optics by unit cell structure design. Microwave and Optical Technology Letters, 2006, 48, 629-632.	0.9	2
116	Q-factor evaluation, design and accurate EM performance of multilayer dielectric filters. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2006, 19, 521-537.	1.2	2
117	Experimental and numerical investigation of polarization properties in photonic crystal fibers. Optical Engineering, 2006, 45, 115007.	0.5	2
118	TLMIE Modeling of the TM-Passing Property of Integrated Waveguide with Laminated Cladding. , 2006, , .		0
119	Optical and mechanical shrinkage effects in dye-doped photonic bandgap structures based on organic materials. Physical Review E, 2006, 73, 011708.	0.8	5
120	A TLM Node for the Diffraction by 3D-Dielectric Corners based on the Simultaneous Transverse Resonance Method. , 2006, , .		1
121	Full-wave analysis of filtering behaviour for laminated structures. , 2005, , .		0
122	Accurate TLM-IE modeling of integrated photonic band gap. , 2005, , .		1
123	Development of the EM coupling in laminated multilayered 3D optical waveguides. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2005, 18, 237-253.	1.2	5
124	Analytical modelling of 3D-dielectric corners for E.M. simulators. , 2005, , .		1
125	Accurate modeling of TE/TM propagation and losses of integrated optical polarizer. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1856-1862.	2.9	17
126	Electromagnetic 3-D Model for Active Linear Devices: Application to pHEMTs in the Linear Regime. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 469-474.	2.9	3

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127	Full-Wave Analysis of Photonic Bandgap Integrated Optical Components by the TLM-IE Method. Journal of Lightwave Technology, 2004, 22, 2348-2358.	2.7	9
128	Accurate analysis of wave propagation in negative uniaxial crystal. IEEE Journal of Quantum Electronics, 2004, 40, 821-829.	1.0	12
129	Accurate analysis and modeling of laminated multilayered 3-D optical waveguides. IEEE Journal of Quantum Electronics, 2004, 40, 1478-1489.	1.0	3
130	Development of a novel full-wave 3D-solver for the analysis of MMIC and optical integrated circuits. , 2004, , .		0
131	Exact TLM Boundary Conditions for Closed Homogeneous Waveguide. AEU - International Journal of Electronics and Communications, 2003, 57, 128-136.	1.7	0
132	Explicit eigenvalue formulation for the efficient determination of the hybrid spectrum of ferrite-loaded circular waveguide. IET Microwaves Antennas and Propagation, 2003, 150, 105.	1.2	0
133	Efficient Modelling of the Near Field Coupling Between Phased Array Antennas. , 2003, , .		0
134	Efficient modelling of the near field coupling between phased array antennas. , 2003, , .		0
135	Accurate Modeling of Miniaturized Microstrip Antenna on Locally Non-Homogeneous Substrates by the TLM-IE Method. , 2002, , .		0
136	Accurate analysis of H-shaped antenna coupled to microstrip feed-line. Electronics Letters, 2002, 38, 676.	0.5	0
137	A new termination condition for the application of the TLM method to discontinuity problems in closed homogeneous waveguide. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 2513-2518.	2.9	16
138	ESD field penetration into a populated metallic enclosure a hybrid time-domain approach. IEEE Transactions on Electromagnetic Compatibility, 2002, 44, 243-249.	1.4	15
139	Tlm-Based Explicit Eigenvalue Approach to the Determination of the Complete Spectrum of Inhomogeneous, Closed Waveguide. , 2001, , .		0
140	Accurate modeling of metal plate-loaded loop-coupled cavities with slots. IEEE Microwave and Wireless Components Letters, 2001, 11, 173-175.	2.0	0
141	Accurate Modeling of the Electromagnetic Field of Loop-Coupled Shielded Enclosures with Apertures. , 2000, , .		0
142	Hybrid space discretizing-integral equation methods for numerical modeling of transient interference. IEEE Transactions on Electromagnetic Compatibility, 1999, 41, 425-430.	1.4	24
143	Numerical modelling of transient radiated interferences in time domain by the hybrid ARB method. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 1999, 12, 295-309.	1.2	8
144	Efficient analysis and modelling of the radiation of microstrip lines and patch antennas by the TLM-integral equation (TLM-IE) method. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 1999, 12, 329-340.	1.2	30

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145	Theoretical and Numerical Aspects of the Hybrid Mom-Fdtd, TLM-IE and ARB Methods for the Efficient Modelling of EMC Problems. , 1999, , .		3
146	General constraints on the propagation of complex waves in closed lossless isotropic waveguides. IEEE Transactions on Microwave Theory and Techniques, 1998, 46, 512-516.	2.9	9
147	Accurate Analysis and Modeling of Slot Coupled Patch Antennas by the TLM-IE and the FDTD Methods. , 1998, , .		3
148	Analysis of the suspended strip in elliptical cross section by separation of variables. IEEE Transactions on Microwave Theory and Techniques, 1997, 45, 1778-1784.	2.9	17
149	A Combination of Integral Equation Method and FD/TLM Method for Efficient Solution of EMC Problems. , 1997, , .		15
150	Electromagnetic investigation on the propagation in distributed active devices. IET Microwaves Antennas and Propagation, 1997, 144, 281.	1.2	2
151	Eigenvalue approach to the efficient determination of the hybrid and complex spectrum of inhomogeneous, closed waveguide. IEEE Transactions on Microwave Theory and Techniques, 1997, 45, 345-353.	2.9	19
152	Analysis of the suspended strip in elliptical cross-section by separation of variables. , 1996, , .		0
153	Accurate analysis of the GTEM cell wide-band termination. IEEE Transactions on Electromagnetic Compatibility, 1996, 38, 188-197.	1.4	10
154	Modal Propagation, Energy Storage, and Dissipation in Uniform, Linear, Isotropic Waveguides. Electromagnetics, 1996, 16, 213-227.	0.3	1
155	Electromagnetic investigation of travelling wave operation in AlGaAs-InGaAs pseudomorphic HEMT's. , 1995, , .		3
156	Numerical modelling of diffraction by objects in GTEM cell. , 1994, , .		2
157	Dipole excitation and scattering by spherical objects in GTEM cell. IEEE Transactions on Microwave Theory and Techniques, 1994, 42, 1700-1708.	2.9	10
158	Fundamental mode propagation in GTEM cell and scattering by conducting cubes. , 1993, , .		1
159	Field analysis and design criteria for T-gate TW-FET's with positive gain. , 0, , .		2
160	Adapted radiating boundaries (ARB) for efficient time domain simulation of electromagnetic interferences. , 0, , .		5
161	Time domain modelling of E.M. coupling between microwave circuit structures. , 0, , .		1
162	Full-wave analysis of a periodic array of rectangular lossy conductive thick patches. , 0, , .		3

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163	Explicit eigenvalue approach to the efficient determination of the hybrid spectrum of ferrite-loaded circular waveguide. , 0, , .		0
164	Comparison of the efficiency of electromagnetic solvers in the time- and frequency-domain for the accurate modeling of planar circuits and MEMS. , 0, , .		5
165	Analysis of Si and SiGe integrated optical devices. , 0, , .		0
166	A TLM-symmetrical condensed node approach for general anisotropic optical and microwave devices. , 0, , .		0
167	Comparison of electromagnetic solvers for the analysis of LTCC components. , 0, , .		0
168	Accurate modeling of integrated multilayered optical devices by TLMIE method. , 0, , .		0
169	Organic conductors and semiconductors: recent achievements and modeling. , 0, , 195-227.		0
170	Accurate modeling of high frequency microelectromechanical systems (MEMS) switches in time- and frequency-domain. Advances in Radio Science, 0, 1, 135-138.	0.7	1
171	A Combination Of Integral Equation Method And Fd/tlm Method For Efficient Solution Of Emc Problems. , 0, , .		10