

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	Broadband Microwave Attenuator Based on Few Layer Graphene Flakes. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2491-2497.	2.9	113
2	Applications of Graphene at Microwave Frequencies. Radioengineering, 2015, 24, 661-669.	0.3	82
3	A tunable microwave slot antenna based on graphene. Applied Physics Letters, 2015, 106, .	1.5	67
4	A New 3-D Transmission Line Matrix Scheme for the Combined Schrödinger-Maxwell Problem in the Electronic/Electromagnetic Characterization of Nanodevices. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 654-662.	2.9	58
5	Vertically aligned CNT-Cu nano-composite material for stacked through-silicon-via interconnects. Nanotechnology, 2016, 27, 335705.	1.3	43
6	Boundary Immittance Operators for the Schrödinger-Maxwell Problem of Carrier Dynamics in Nanodevices. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 1147-1155.	2.9	40
7	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
8	Scattering matrix approach to multichannel transport in many lead graphene nanoribbons. Nanotechnology, 2010, 21, 155701.	1.3	26
9	Hybrid space discretizing-integral equation methods for numerical modeling of transient interference. IEEE Transactions on Electromagnetic Compatibility, 1999, 41, 425-430.	1.4	24
10	Optomechanics of Chiral Dielectric Metasurfaces. Advanced Optical Materials, 2020, 8, 1901507.	3.6	24
11	Spatial dispersion effects upon local excitation of extrinsic plasmons in a graphene micro-disk. Journal Physics D: Applied Physics, 2015, 48, 465104.	1.3	23
12	Graphene-based electronically tunable microstrip attenuator. , 2014, , .		21
13	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
14	A Multichannel Model for the Self-Consistent Analysis of Coherent Transport in Graphene Nanoribbons. ACS Nano, 2011, 5, 6109-6118.	7.3	19
15	Graphene-Based Electronically Tuneable Microstrip Attenuator. Nanomaterials and Nanotechnology, 2014, 4, 18.	1.2	19
16	Efficient and versatile graphene-based multilayers for EM field absorption. Applied Physics Letters, 2016, 109, .	1.5	19
17	Phase Properties of Different HfO2 Polymorphs: A DFT-Based Study. Crystals, 2022, 12, 90.	1.0	19
18	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

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19	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
20	Nanoelectronics: The Paradigm Shift [From the Guest Editors' Desk. IEEE Microwave Magazine, 2010, 11, 8-10.	0.7	17
21	Extending ballistic graphene FET lumped element models to diffusive devices. Solid-State Electronics, 2012, 76, 8-12.	0.8	17
22	On the use of electrostatically doped graphene: Analysis of microwave attenuators. , 2014, , .		17
23	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
24	Design of a coplanar graphene-based nano-patch antenna for microwave application. , 2013, , .		16
25	A Combination of Integral Equation Method and FD/TLM Method for Efficient Solution of EMC Problems. , 1997, , .		15
26	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
27	Far-field radiation of optical fibers with tapered end. Journal of Lightwave Technology, 2006, 24, 3162-3168.	2.7	15
28	Coherent carrier transport and scattering by lattice defects in single- and multibranch carbon nanoribbons. Physical Review B, 2008, 77, .	1.1	15
29	Modelling of multi-wall CNT devices by self-consistent analysis of multichannel transport. Nanotechnology, 2008, 19, 165202.	1.3	13
30	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
31	Accurate analysis of wave propagation in negative uniaxial crystal. IEEE Journal of Quantum Electronics, 2004, 40, 821-829.	1.0	12
32	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
33	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
34	A New Analytical Model of Diffraction by 3D Dielectric Corners. IEEE Transactions on Antennas and Propagation, 2009, 57, 2323-2330.	3.1	11
35	RF Nanotechnologyâ€™Concept, Birth, Mission, and Perspectives [Member Benefits. IEEE Microwave Magazine, 2010, 11, 130-137.	0.7	11
36	Dipole excitation and scattering by spherical objects in GTEM cell. IEEE Transactions on Microwave Theory and Techniques, 1994, 42, 1700-1708.	2.9	10

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37	Accurate analysis of the GTEM cell wide-band termination. IEEE Transactions on Electromagnetic Compatibility, 1996, 38, 188-197.	1.4	10
38	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
39	A Combination Of Integral Equation Method And Fd/tlm Method For Efficient Solution Of Emc Problems. , 0, , .		10
40	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
41	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
42	Microwave applications of graphene for tunable devices. , 2014, , .		9
43	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
44	Modeling and Electrochemical Characterization of Electrodes Based on Epoxy Composite with Functionalized Nanocarbon Fillers at High Concentration. Nanomaterials, 2020, 10, 850.	1.9	8
45	Reversing the Humidity Response of MoS ₂ - and WS ₂ -Based Sensors Using Transition-Metal Salts. ACS Applied Materials & Interfaces, 2021, 13, 23201-23209.	4.0	8
46	Analysis of the Metal Work Function Dependence of Charge Transfer in Contacted Graphene Nanoribbons. Nanomaterials and Nanotechnology, 2012, 2, 12.	1.2	7
47	Learning by Using Graphene Multilayers: An Educational App for Analyzing the Electromagnetic Absorption of a Graphene Multilayer Based on a Network Model. IEEE Microwave Magazine, 2016, 17, 44-51.	0.7	7
48	Tunable and Miniaturized Microwave Filters Using Carbon Nanotube-Based Variable Capacitors. IEEE Nanotechnology Magazine, 2022, 21, 118-130.	1.1	7
49	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
50	Self-consistent simulation of multi-walled CNT nanotransistors. International Journal of Microwave and Wireless Technologies, 2010, 2, 453-456.	1.5	6
51	Numerical Techniques for the Analysis of Charge Transport and Electrodynamics in Graphene Nanoribbons. Nanomaterials and Nanotechnology, 2012, 2, 13.	1.2	6
52	Adapted radiating boundaries (ARB) for efficient time domain simulation of electromagnetic interferences. , 0, , .		5
53	Comparison of the efficiency of electromagnetic solvers in the time- and frequency-domain for the accurate modeling of planar circuits and MEMS. , 0, , .		5
54	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

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55	Optical and mechanical shrinkage effects in dye-doped photonic bandgap structures based on organic materials. <i>Physical Review E</i> , 2006, 73, 011708.	0.8	5
56	Innovative full wave modeling of plasmon propagation in graphene by dielectric permittivity simulations based on density functional theory. , 2015, , .		5
57	Nano Probing for Microwave Engineers: Calculating Probe-Sample Capacitance and Charge Distribution of a Near-Field Scanning Microwave Microscope on a Nanoscale. <i>IEEE Microwave Magazine</i> , 2017, 18, 71-75.	0.7	5
58	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
59	Developments of microwave microscopy for application to biological samples. , 2017, , .		5
60	Blisters on graphite surface: a scanning microwave microscopy investigation. <i>RSC Advances</i> , 2019, 9, 23156-23160.	1.7	5
61	Efficient modeling of 3-D photonic crystals for integrated optical devices. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 319-321.	1.3	4
62	Graphene as a tunable resistor. , 2014, , .		4
63	Nanoscale Simulation of Three-Contact Graphene Ballistic Junctions. <i>Nanomaterials and Nanotechnology</i> , 2014, 4, 14.	1.2	4
64	Measurement Techniques for RF Nanoelectronics [From the Guest Editors' Desk]. <i>IEEE Microwave Magazine</i> , 2014, 15, 26-28.	0.7	4
65	Microwave characterization of anisotropic graphene by applying the Duality theorem. <i>Journal of Computational Electronics</i> , 2015, 14, 214-221.	1.3	4
66	Synthetic optical holography for in-depth imaging of optical vortices in speckle patterns. <i>AIP Advances</i> , 2019, 9, 015211.	0.6	4
67	Efficient and Versatile Modeling of Mono- and Multi-Layer MoS ₂ Field Effect Transistor. <i>Electronics (Switzerland)</i> , 2020, 9, 1385.	1.8	4
68	Mid-infrared optical characterization of thin SiN _x membranes. <i>Applied Optics</i> , 2019, 58, 5233.	0.9	4
69	Electromagnetic investigation of travelling wave operation in AlGaAs-InGaAs pseudomorphic HEMT's. , 1995, , .		3
70	Accurate Analysis and Modeling of Slot Coupled Patch Antennas by the TLM-IE and the FDTD Methods. , 1998, , .		3
71	Theoretical and Numerical Aspects of the Hybrid Mom-Fdtd, TLM-IE and ARB Methods for the Efficient Modelling of EMC Problems. , 1999, , .		3
72	Full-wave analysis of a periodic array of rectangular lossy conductive thick patches. , 0, , .		3

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73	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
74	Accurate analysis and modeling of laminated multilayered 3-D optical waveguides. IEEE Journal of Quantum Electronics, 2004, 40, 1478-1489.	1.0	3
75	Microwave Nanopackaging and Interconnects [From the Guest Editor's Desk]. IEEE Microwave Magazine, 2011, 12, 14-18.	0.7	3
76	Modeling of the electromagnetic/coherent transport problem in nano-structured materials, devices and systems using combined TLM-FDTD techniques. , 2011, , .		3
77	Plasmon Modes in Extrinsic Graphene: Ab initio Simulations vs Semi-classical Models. NATO Science for Peace and Security Series B: Physics and Biophysics, 2016, , 125-144.	0.2	3
78	Evaluating CNT-Based Interconnects : A Numerical Tool to Characterize Hybrid CNT-Copper Interconnects. IEEE Microwave Magazine, 2017, 18, 124-129.	0.7	3
79	Rigorous simulation of nonlinear optomechanical coupling in micro- and nano-structured resonant cavities. International Journal of Optomechatronics, 2018, 12, 11-19.	3.3	3
80	Dirac Equation-Based Formulation for the Quantum Conductivity in 2D-Nanomaterials. Applied Sciences (Switzerland), 2021, 11, 2398.	1.3	3
81	Inverted Scanning Microwave Microscopy of a Vital Mitochondrion in Liquid. IEEE Microwave and Wireless Components Letters, 2022, 32, 804-806.	2.0	3
82	Numerical modelling of diffraction by objects in GTEM cell. , 1994, , .		2
83	Field analysis and design criteria for T-gate TW-FET's with positive gain. , 0, , .		2
84	Electromagnetic investigation on the propagation in distributed active devices. IET Microwaves Antennas and Propagation, 1997, 144, 281.	1.2	2
85	Analysis of an optical polarizer based on laminated-cover waveguide. Journal of Lightwave Technology, 2006, 24, 1414-1424.	2.7	2
86	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
87	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
88	Experimental and numerical investigation of polarization properties in photonic crystal fibers. Optical Engineering, 2006, 45, 115007.	0.5	2
89	Multiphysics techniques for the electromagnetic/coherent-transport problem in carbon nanodevices: Analysis of the metal-carbon transition. , 2012, , .		2
90	Back-gate bias of a graphene antenna via a smart background metallization. , 2015, , .		2

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91	Rigorous simulation of ballistic graphene-based transistor. , 2016, , .		2
92	Rigorous simulation of opto-mechanically modulated electromagnetic micro- and nano-cavities. , 2017, , .		2
93	Electromagnetic Amplification of Microwave Phonons in Nonlinear Resonant Microcavities. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3603-3610.	2.9	2
94	Coupling of Integrated Waveguide and Optomechanic Cavity for Microwave Phonon Excitation in Si Nanobeams. Photonics, 2020, 7, 67.	0.9	2
95	A Compact and Robust Technique for the Modeling and Parameter Extraction of Carbon Nanotube Field Effect Transistors. Electronics (Switzerland), 2020, 9, 2199.	1.8	2
96	A High-Gain CNTFET-Based LNA Developed Using a Compact Design-Oriented Device Model. Electronics (Switzerland), 2021, 10, 2835.	1.8	2
97	Fundamental mode propagation in GTEM cell and scattering by conducting cubes. , 1993, , .		1
98	Modal Propagation, Energy Storage, and Dissipation in Uniform, Linear, Isotropic Waveguides. Electromagnetics, 1996, 16, 213-227.	0.3	1
99	Time domain modelling of E.M. coupling between microwave circuit structures. , 0, , .		1
100	Accurate TLM-IE modeling of integrated photonic band gap. , 2005, , .		1
101	Analytical modelling of 3D-dielectric corners for E.M. simulators. , 2005, , .		1
102	A TLM Node for the Diffraction by 3D-Dielectric Corners based on the Simultaneous Transverse Resonance Method. , 2006, , .		1
103	Full-Wave Analysis of Electron Wavepacket Propagation in Carbon Nanotube Devices by a new Transmission Line Matrix-Schroedinger Equation (TLM-SE) scheme. , 2007, , .		1
104	Analysis of the electromagnetic/coherent transport problem in graphene nanoribbons. , 2011, , .		1
105	Graphene modeling by TLM approach. , 2012, , .		1
106	Advanced techniques for the investigation of the combined electromagnetic-quantum transport phenomena in carbon nanodevices. , 2012, , .		1
107	Microwave applications of graphene for tunable devices. , 2014, , .		1
108	Electrical conductivity of graphene: a time-dependent density functional theory study. , 2015, , .		1

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109	Comparison of rigorous vs approximate methods for accurate calculation of 2D-materials band structures and applications to THz nanoelectronics. , 2015, , .		1
110	Electromagnetic characterization of graphene and graphene nanoribbons via ab-initio permittivity simulations. , 2015, , .		1
111	Ballistic Ratchet effect on patterned graphene. Integrated Ferroelectrics, 2016, 176, 28-36.	0.3	1
112	Eigenvalues approach for the analysis of plasmon propagation on a graphene layer. , 2017, , .		1
113	A multi-physics approach for the analysis and design of optomechanical cavities. , 2017, , .		1
114	Numerical emulation of Thru-Reflection-Line calibration for the de-embedding of Surface Acoustic Wave devices. Scientific Reports, 2018, 8, 9256.	1.6	1
115	Advanced numerical investigation of the heat flux in an array of microbolometers. Scientific Reports, 2019, 9, 11078.	1.6	1
116	Cosec 2 hybrid travelling/resonant antenna for maritime surveillance applications. IET Microwaves, Antennas and Propagation, 2020, 14, 223-232.	0.7	1
117	Heterodyne phase shifting method in scanning probe microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2021, 38, 378.	0.8	1
118	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
119	MacGyvered Multiproperty Materials Using Nanocarbon and Jam: A Spectroscopic, Electromagnetic, and Rheological Investigation. Journal of Functional Biomaterials, 2022, 13, 5.	1.8	1
120	Geometric Diode Modeling for Energy Harvesting Applications. , 2022, , .		1
121	Analysis of the suspended strip in elliptical cross-section by separation of variables. , 1996, , .		0
122	Accurate Modeling of the Electromagnetic Field of Loop-Coupled Shielded Enclosures with Apertures. , 2000, , .		0
123	Tlm-Based Explicit Eigenvalue Approach to the Determination of the Complete Spectrum of Inhomogeneous, Closed Waveguide. , 2001, , .		0
124	Accurate modeling of metal plate-loaded loop-coupled cavities with slots. IEEE Microwave and Wireless Components Letters, 2001, 11, 173-175.	2.0	0
125	Explicit eigenvalue approach to the efficient determination of the hybrid spectrum of ferrite-loaded circular waveguide. , 0, , .		0
126	Accurate Modeling of Miniaturized Microstrip Antenna on Locally Non-Homogeneous Substrates by the TLM-IE Method. , 2002, , .		0

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127	Accurate analysis of H-shaped antenna coupled to microstrip feed-line. Electronics Letters, 2002, 38, 676.	0.5	0
128	Exact TLM Boundary Conditions for Closed Homogeneous Waveguide. AEU - International Journal of Electronics and Communications, 2003, 57, 128-136.	1.7	0
129	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
130	Analysis of Si and SiGe integrated optical devices. , 0, , .		0
131	Efficient Modelling of the Near Field Coupling Between Phased Array Antennas. , 2003, , .		0
132	A TLM-symmetrical condensed node approach for general anisotropic optical and microwave devices. , 0, , .		0
133	Efficient modelling of the near field coupling between phased array antennas. , 2003, , .		0
134	Comparison of electromagnetic solvers for the analysis of LTCC components. , 0, , .		0
135	Accurate modeling of integrated multilayered optical devices by TLMIE method. , 0, , .		0
136	Development of a novel full-wave 3D-solver for the analysis of MMIC and optical integrated circuits. , 2004, , .		0
137	Full-wave analysis of filtering behaviour for laminated structures. , 2005, , .		0
138	Time-domain modeling and filtering behaviour of guided-wave optics by Hertzian potentials. , 2006, 6183, 307.		0
139	TLMIE Modeling of the TM-Passing Property of Integrated Waveguide with Laminated Cladding. , 2006, , .		0
140	A new hybrid Transmission Line Matrix-Finite Difference technique for the coupled Maxwell-Schrödinger problem in the full-wave characterization of nanodevices. , 2007, , .		0
141	Modal and numerical analysis of the transverse magnetic-passing property of laminated cladding. IET Optoelectronics, 2007, 1, 150-156.	1.8	0
142	A transmission line matrix-schrodinger equation technique for the full-wave analysis of carbon nanotubes: Near field characterization. , 2007, , .		0
143	Self-consistent simulation of local potential in external-gate biased graphene nanoribbons. , 2011, , .		0
144	Novel Frequency-Domain and Time-Domain Techniques for the Combined Maxwell-Dirac Problem in the Characterization of Nanodevices. , 2011, , 211-225.		0

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145	Graphene-based wireless communications systems: Analysis of the EM-quantum transport of coupled nano-patch antennas. , 2013, , .		0
146	Full-wave techniques for the electromagnetic-quantum transport modeling in nano-devices. , 2014, , .		0
147	Numerical simulation of the combined quantum-electromagnetic problem in nano-structured devices. , 2014, , .		0
148	Electromagnetic simulators for the modelling of magnetically biased graphene. , 2014, , .		0
149	Advanced techniques for the band structure-quantum transport modeling in graphene and 2D-materials beyond graphene. , 2014, , .		0
150	Radio-frequency nanoelectronics — Bridging the gap between nanotechnology and R.F. engineering applications. , 2014, , .		0
151	Efficient characterization of the electromagnetic-coupling of wire antennas- and graphene patches. , 2014, , .		0
152	Nanoscale modeling of three-contacts graphene ballistic junctions: Analysis of the non-linear transport. , 2014, , .		0
153	Organic conductors and semiconductors: recent achievements and modeling. , 0, , 195-227.		0
154	Ballistic simulation of Ratchet effect in antidot lattices patterned on graphene. , 2015, , .		0
155	Ballistic simulation of Ratchet effect in antidot lattices patterned on graphene. , 2015, , .		0
156	Low-dimensional materials for optically-assisted microwave applications. , 2017, , .		0
157	Electro-thermal and quantum analysis of CNT-based interconnections. , 2017, , .		0
158	Synthetic holography at infrared wavelength for nanostructure imaging: Scanning microscopy based on extrinsic microcavity. , 2017, , .		0
159	Accurate analysis of plasmon propagation in metal and graphene nanostructures. , 2017, , .		0
160	Accurate analysis of plasmon propagation in metal and graphene nanostructures. , 2017, , .		0
161	The Electromagnetic framework of â€œNanoarchitectronicsâ€ , 2018, , .		0
162	Efficient and versatile multiphysics/multiscale 3D model of fullerene single electron device. , 2018, , .		0

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163	Ab-initio simulation of single carbon-cluster electron device. , 2018, , .		0
164	Rigorous Model of Nonlinear Optomechanical Coupling in Micro- and Nano-Structured Resonant Cavities. , 2018, , .		0
165	Transformation Optics: Large Multiphysics Simulation of Nonlinear Optomechanical Coupling in Microstructured Resonant Cavities. IEEE Microwave Magazine, 2018, 19, 79-84.	0.7	0
166	First order iterative learning control for a single axis piezostage system. , 2018, , .		0
167	Nano-scale electronics: rigorous quantum study of a single molecule device. , 2019, , .		0
168	Realization and Characterization of Organic TwoDimensional Periodic Structures. , 2007, , .		0
169	Birth and Development of the "Electromagnetic Fields" Group. , 2019, , 23-36.		0
170	10.1063/1.5053564.1. , 2019, , .		0
171	Dynamics of Optical Vortices in Speckle Patterns with Sub-Nanometric Spectral Resolution. , 2020, , .		0