

Isabelle Huynen

List of Publications by Year in descending order

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192
papers

5,675
citations

101384

36
h-index

88477

70
g-index

194
all docs

194
docs citations

194
times ranked

4840
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive survey on "circular polarized antennas"™ for existing and emerging wireless communication technologies. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 033002.	1.3	42
2	Electromagnetic performance, optical and physiochemical features of CaTiO ₃ /NiO and SrFe ₂ O ₁₉ /NiO nanocomposites based bilayer absorber. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 879-892.	5.0	14
3	Taper Transmission Line Based Measurement "A Thru-Only De-Embedding Approach. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022, 70, 4199-4210.	2.9	0
4	Wideband electromagnetic wave absorption by tuning morphology and layer arrangement in Bi-layer absorber based on doped SrFe ₂ O ₁₉ nanocomposite powders. <i>Ceramics International</i> , 2022, 48, 30687-30694.	2.3	2
5	Electromagnetic wave absorption characteristics of single and double layer absorbers based on trimetallic FeCoNi@C metal-organic framework incorporated with MWCNTs. <i>Synthetic Metals</i> , 2021, 271, 116634.	2.1	18
6	Impedance Bandwidth Improvement of a Planar Antenna Based on Metamaterial-Inspired T-Matching Network. <i>IEEE Access</i> , 2021, 9, 67916-67927.	2.6	38
7	Singular Integral Formulations for Electrodynamical Analysis of Metamaterial-Inspired Antenna Array. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021, 20, 179-183.	2.4	9
8	Predictive Optimization of Electrical Conductivity of Polycarbonate Composites at Different Concentrations of Carbon Nanotubes: A Valorization of Conductive Nanocomposite Theoretical Models. <i>Materials</i> , 2021, 14, 1687.	1.3	9
9	Bandwidth and gain enhancement of composite right left handed metamaterial transmission line planar antenna employing a non foster impedance matching circuit board. <i>Scientific Reports</i> , 2021, 11, 7472.	1.6	15
10	High-isolation antenna array using SIW and realized with a graphene layer for sub-terahertz wireless applications. <i>Scientific Reports</i> , 2021, 11, 10218.	1.6	77
11	Optimum power transfer in RF front end systems using adaptive impedance matching technique. <i>Scientific Reports</i> , 2021, 11, 11825.	1.6	9
12	Investigation of Microwave Absorption Mechanisms in Microcellular Foamed Conductive Composites. <i>Micro</i> , 2021, 1, 86-101.	0.9	22
13	Carbon Nanotubes (CNTs) from Synthesis to Functionalized (CNTs) Using Conventional and New Chemical Approaches. <i>Journal of Nanomaterials</i> , 2021, 2021, 1-31.	1.5	45
14	Design and Fabrication of a Printed Tri-Band Antenna for 5G Applications Operating across Ka-, and V-Band Spectrums. <i>Electronics (Switzerland)</i> , 2021, 10, 2674.	1.8	16
15	Nonlinear electrical transport in Fe ₃ O ₄ -decorated graphene nanoplatelets. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 065304.	1.3	3
16	Multibeam and Beam Scanning With Modulated Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 1273-1281.	3.1	46
17	Flexible Multilayer Combining Nickel Nanowires and Polymer Films for Broadband Microwave Absorption. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020, 62, 1661-1668.	1.4	7
18	Inkjet-printed frequency-selective surfaces based on carbon nanotubes for ultra-wideband thin microwave absorbers. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 2190-2201.	1.1	14

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19	Nanocomposites with size-controlled nickel nanoparticles supported on multi-walled carbon nanotubes for efficient frequency-selective microwave absorption. <i>Composites Science and Technology</i> , 2020, 187, 107947.	3.8	12
20	Multifrequency Band Synthesis of Modulated Metasurface Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020, 19, 134-138.	2.4	9
21	Electrodes-oxide-semiconductor device for biosensing: Renewed conformal analysis and multilayer algorithm. <i>Journal of Electroanalytical Chemistry</i> , 2020, 856, 113651.	1.9	3
22	Power balance and efficiency of metasurface antennas. <i>Scientific Reports</i> , 2020, 10, 17508.	1.6	13
23	Ranking Broadband Microwave Absorption Performance of Multilayered Polymer Nanocomposites Containing Carbon and Metallic Nanofillers. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	4
24	A Comprehensive Survey of "Metamaterial Transmission-Line Based Antennas: Design, Challenges, and Applications" IEEE Access, 2020, 8, 144778-144808.	2.6	202
25	A Comprehensive Survey on "Various Decoupling Mechanisms With Focus on Metamaterial and Metasurface Principles Applicable to SAR and MIMO Antenna Systems" IEEE Access, 2020, 8, 192965-193004.	2.6	244
26	Investigation of Microwave Absorption Performance of CoFe ₂ O ₄ /NiFe ₂ O ₄ /Carbon Fiber Composite Coated with Polypyrrole in X-Band Frequency. <i>Micromachines</i> , 2020, 11, 809.	1.4	9
27	Simulation and Optimization of Electromagnetic Absorption of Polycarbonate/CNT Composites Using Machine Learning. <i>Micromachines</i> , 2020, 11, 778.	1.4	15
28	Editorial for the Special Issue on "Nanodevices for Microwave and Millimeter Wave Applications" <i>Micromachines</i> , 2020, 11, 477.	1.4	1
29	Dual-Band Beams Generation with Metasurface based on the EFIE. , 2020, , .		0
30	Smart Nanocomposites for Nanosecond Signal Control: The Nano4waves Approach. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1102.	1.3	3
31	Metamaterial-Inspired Antenna Array for Application in Microwave Breast Imaging Systems for Tumor Detection. <i>IEEE Access</i> , 2020, 8, 174667-174678.	2.6	83
32	Fabrication of Microwave Devices Based on Magnetic Nanowires Using a Laser-Assisted Process. <i>Micromachines</i> , 2019, 10, 475.	1.4	6
33	Wideband microwave absorption in thin nanocomposite films induced by a concentration gradient of mixed carbonaceous nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 19147-19153.	1.1	7
34	Near-field Shaping by Leaky-Wave Metasurfaces: OAM and Bessel Beams Synthesis. , 2019, , .		2
35	Highly Efficient Wideband Microwave Absorbers Based on Zero-Valent Fe@ ³ -Fe ₂ O ₃ and Fe/Co/Ni Carbon-Protected Alloy Nanoparticles Supported on Reduced Graphene Oxide. <i>Nanomaterials</i> , 2019, 9, 1196.	1.9	21
36	A ultra-wideband thin microwave absorber using inkjet-printed frequency-selective surfaces combining carbon nanotubes and magnetic nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	7

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37	Microwave Characterization of Metal-Decorated Carbon Nanopowders Using a Single Transmission Line. Journal of Nanomaterials, 2019, 2019, 1-11.	1.5	8
38	Multilayered absorber over K-and Ka-band based on graded concentration of carbon nanofillers: Modeling, Fabrication, and Experimental validation. , 2019, , .		0
39	Electric Field Integral Equation-Based Synthesis of Elliptical-Domain Metasurface Antennas. IEEE Transactions on Antennas and Propagation, 2019, 67, 1270-1274.	3.1	10
40	Method of Moments Simulation of Modulated Metasurface Antennas With a Set of Orthogonal Entire-Domain Basis Functions. IEEE Transactions on Antennas and Propagation, 2019, 67, 1119-1130.	3.1	30
41	A Quasi-Direct Method for the Surface Impedance Design of Modulated Metasurface Antennas. IEEE Transactions on Antennas and Propagation, 2019, 67, 24-36.	3.1	45
42	Fourier-Bessel Basis Functions for the Analysis of Elliptical Domain Metasurface Antennas. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 675-678.	2.4	21
43	Analysis of Elliptical Aperture Metasurface Antennas. , 2018, , .		2
44	A Novel Laser-Assisted Fabrication Process for Nanowired Substrate Integrated Devices. , 2018, , .		1
45	Absorption modulation of FSS-polymer nanocomposites through incorporation of conductive nanofillers. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	8
46	Flexible polarization-dependent absorbers based on patterned carbon nanotubes films. Microwave and Optical Technology Letters, 2017, 59, 1164-1167.	0.9	7
47	Flexible twist polarizer based on ultrathin multilayered polymer-carbon nanotubes composite films. Microwave and Optical Technology Letters, 2017, 59, 2844-2848.	0.9	1
48	Coplanar waveguide method for microwave and ferromagnetic resonance characterization of nanocarbon powders decorated with magnetic nanoparticles. Microwave and Optical Technology Letters, 2017, 59, 2330-2335.	0.9	5
49	Numerical analysis of modulated metasurface antennas using Fourier-Bessel basis functions. , 2017, , .		5
50	Configurable Microwave Filter for Signal Processing Based on Arrays of Bistable Magnetic Nanowires. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 72-77.	2.9	13
51	Multilayer cylindrical invisibility cloak at microwave frequencies built from polymer and carbon nanotubes. Microwave and Optical Technology Letters, 2017, 59, 65-69.	0.9	2
52	Polypropylene Carbon Nanotubes Nanocomposites: Combined Influence of Block Copolymer Compatibilizer and Melt Annealing on Electrical Properties. Journal of Nanomaterials, 2017, 2017, 1-11.	1.5	6
53	A thin ultra-wideband microwave absorbing structure printed on flexible substrate with resistive-ink made of multiwall carbon-nanotube. , 2017, , .		1
54	Study of Absorption in Carbon Nanotube Composites from 1HZ to 40GHZ. International Journal of Microwave Engineering, 2017, 2, 01-13.	0.0	8

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55	A laser-assisted process to produce patterned growth of vertically aligned nanowire arrays for monolithic microwave integrated devices. <i>Nanotechnology</i> , 2016, 27, 235301.	1.3	8
56	Nearly-perfect circular polarization converter formed by triangular-geometric chiral metamaterial. , 2016, , .		0
57	Processing of a new class of multifunctional hybrid for electromagnetic absorption based on a foam filled honeycomb. <i>Materials and Design</i> , 2016, 89, 323-334.	3.3	46
58	Thin Oriented Polymer Carbon Nanotube Composites for Microwave Absorption. <i>Materials Today: Proceedings</i> , 2016, 3, 491-496.	0.9	7
59	Decoration of nanocarbon solids with magnetite nanoparticles: towards microwave metamaterial absorbers. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3290-3303.	2.7	20
60	Parametric Study of Microwave Absorption in Lossy Dielectric Slabs. <i>International Journal of Microwave Engineering</i> , 2016, 1, 01-12.	0.0	1
61	Nanocomposite Foams of Polypropylene and Carbon Nanotubes: Preparation, Characterization, and Evaluation of their Performance as EMI Absorbers. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 1302-1312.	1.1	39
62	Macromol. Chem. Phys. 12/2015. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 1380-1380.	1.1	0
63	Nano4Waves: A metamaterial approach towards smart nanocomposites for nanosecond signal control. , 2015, , .		0
64	Gradient foaming of polycarbonate/carbon nanotube based nanocomposites with supercritical carbon dioxide and their EMI shielding performances. <i>Polymer</i> , 2015, 59, 117-123.	1.8	87
65	Multifunctional Material Structures Based on Laser-Etched Carbon Nanotube Arrays. <i>Micromachines</i> , 2014, 5, 756-765.	1.4	6
66	Frequency-selective coatings based on EBG structure combining carbon nanotubes with polymeric or ceramic substrate. , 2014, , .		1
67	Frequency-selective multilayer electromagnetic bandgap structure combining carbon nanotubes with polymeric or ceramic substrates. <i>Applied Physics Letters</i> , 2014, 105, 123118.	1.5	11
68	Frequency selective microwave absorption induced by controlled orientation of graphene-like nanoplatelets in thin polymer films. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	20
69	Analysis of slow-wave propagation in coplanar transmission lines with inkjet printed multiwalled carbon nanotubes network. <i>Microwave and Optical Technology Letters</i> , 2014, 56, 1118-1124.	0.9	1
70	Low Phase Noise Oscillator at 60 GHz Stabilized by a Substrate Integrated Cavity Resonator in LTCC. <i>IEEE Microwave and Wireless Components Letters</i> , 2014, 24, 887-889.	2.0	5
71	Supercritical CO ₂ and polycarbonate based nanocomposites: A critical issue for foaming. <i>Polymer</i> , 2014, 55, 2422-2431.	1.8	25
72	Simple, convenient, and nondestructive electromagnetic characterization technique for composite and multiscale hybrid samples at microwave frequencies. <i>Microwave and Optical Technology Letters</i> , 2014, 56, 504-509.	0.9	4

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73	Carbon nanotube arrays for coupled electromagnetic and thermal management in high power electronics: Influence of microstructuration and stress investigated by IR thermography. , 2014, , .		1
74	Substrate integrated waveguide isolator based on ferromagnetic nanowires in porous alumina template. Applied Physics Letters, 2014, 105, .	1.5	16
75	Influence of carbon nanoparticles on the polymerization and EMI shielding properties of PU nanocomposite foams. RSC Advances, 2014, 4, 7911.	1.7	59
76	Thin and flexible multilayer polymer composite structures for effective control of microwave electromagnetic absorption. Composites Science and Technology, 2014, 100, 182-188.	3.8	55
77	Colloidal pattern replication through contact photolithography operated in a "Talbot" Fabry"Perot"™ regime. Nanotechnology, 2014, 25, 145303.	1.3	2
78	Polymer/carbon based composites as electromagnetic interference (EMI) shielding materials. Materials Science and Engineering Reports, 2013, 74, 211-232.	14.8	975
79	Multifunctional architected materials for electromagnetic absorption. Scripta Materialia, 2013, 68, 50-54.	2.6	56
80	Multifunctional metamaterial absorber based on honeycomb filled with epoxy-carbon nanotube nanocomposite and split ring resonator. , 2013, , .		0
81	Control of Microwave Circulation Using Unbiased Ferromagnetic Nanowires Arrays. IEEE Transactions on Magnetics, 2013, 49, 4261-4264.	1.2	20
82	Wideband nonlinear characteristics of random multiwalled carbon nanotubes network. Microwave and Optical Technology Letters, 2013, 55, 2648-2652.	0.9	2
83	Direct Transcription of Two"Dimensional Colloidal Crystal Arrays into Three"Dimensional Photonic Crystals. Advanced Functional Materials, 2013, 23, 1164-1171.	7.8	33
84	Electromagnetic absorption of sandwich panel made of glass fiber reinforced polymer and nanocomposite foam filled honeycomb. , 2012, , .		2
85	Wavelength-scale lens microscopy via thermal reshaping of colloidal particles. Nanotechnology, 2012, 23, 285708.	1.3	36
86	Thin smart multilayer microwave absorber based on hybrid structure of polymer and carbon nanotubes. Applied Physics Letters, 2012, 100, .	1.5	67
87	Electromagnetic Absorption Properties of Carbon Nanotube Nanocomposite Foam Filling Honeycomb Waveguide Structures. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 43-51.	1.4	64
88	Influence of number of split rings on the leaky radiation of a metamaterial transmission line based on complementary split ring resonators. Microwave and Optical Technology Letters, 2012, 54, 867-875.	0.9	6
89	Q"factor improvement of integrated inductors using high aspect ratio ferromagnetic nanowires. Microwave and Optical Technology Letters, 2012, 54, 1633-1637.	0.9	14
90	V-band low phase-noise oscillator based on a cavity resonator integrated in the silicon substrate of the MCM-D platform. Microwave and Optical Technology Letters, 2012, 54, 1788-1792.	0.9	3

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91	Comparing the effect of carbon-based nanofillers on the physical properties of flexible polyurethane foams. <i>Journal of Materials Science</i> , 2012, 47, 5673-5679.	1.7	50
92	A convenient route for the dispersion of carbon nanotubes in polymers: Application to the preparation of electromagnetic interference (EMI) absorbers. <i>Polymer</i> , 2012, 53, 169-174.	1.8	89
93	Self-Biased Nonreciprocal Microstrip Phase Shifter on Magnetic Nanowired Substrate Suitable for Gyrotor Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012, 60, 2152-2157.	2.9	21
94	Investigation of internal nonhomogenous volumes of perturbation as tuning and miniaturization elements for cavity resonators. <i>Microwave and Optical Technology Letters</i> , 2012, 54, 491-496.	0.9	0
95	Functionalized Nanoporous Thin Films From Photocleavable Block Copolymers. <i>Macromolecular Rapid Communications</i> , 2012, 33, 199-205.	2.0	37
96	57–64 GHz seven-pole bandpass filter Substrate Integrated Waveguide (SIW) in LTCC. , 2011, , .		5
97	Straightforward synthesis of conductive graphene/polymer nanocomposites from graphite oxide. <i>Chemical Communications</i> , 2011, 47, 2544.	2.2	81
98	Template Approach for Novel Magnetic–Ferroelectric Nanocomposites. <i>Applied Physics Express</i> , 2011, 4, 115001.	1.1	14
99	Compact cavity resonators using high impedance surfaces. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 103, 799-804.	1.1	4
100	Multifunctional hybrids for electromagnetic absorption. <i>Acta Materialia</i> , 2011, 59, 3255-3266.	3.8	110
101	Investigation of ionic conductivity in track-etched nanoporous polyimide membranes using a microwave technique. <i>Microwave and Optical Technology Letters</i> , 2011, 53, 2060-2063.	0.9	3
102	Leaky wave radiation phenomena in metamaterial transmission line based on complementary split ring resonators. <i>Microwave and Optical Technology Letters</i> , 2011, 53, 2025-2029.	0.9	7
103	Quasi-optical technique for sensing bond quality of silicon wafers. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
104	Contactless monitoring of Si substrate permittivity and resistivity from microwave to millimeter wave frequencies. <i>Microwave and Optical Technology Letters</i> , 2010, 52, 2500-2505.	0.9	2
105	Functionalized polypropylenes as efficient dispersing agents for carbon nanotubes in a polypropylene matrix; application to electromagnetic interference (EMI) absorber materials. <i>Polymer</i> , 2010, 51, 115-121.	1.8	114
106	Performance of low-pass filter based on non-uniform capacitor sections. , 2010, , .		1
107	Differential phase shift in nonreciprocal microstrip lines on magnetic nanowired substrates. <i>Applied Physics Letters</i> , 2010, 96, 072508.	1.5	28
108	Microwave circulator based on ferromagnetic nanowires in an alumina template. <i>Nanotechnology</i> , 2010, 21, 145208.	1.3	67

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109	A MEMS variable Faraday cage as tuning element for integrated silicon micromachined cavity resonators. , 2010, , .		4
110	Locating carbon nanotubes (CNTs) at the surface of polymer microspheres using poly(vinyl alcohol) grafted CNTs as dispersion co-stabilizers. Chemical Communications, 2010, 46, 3330.	2.2	19
111	Polymer/carbon nanotube composites for electromagnetic interference reduction. , 2010, , 563-587.		2
112	Embedded Grating $\text{hbox{n}}^{\text{+}}\text{hbox{-i}}\text{hbox{n}}^{\text{+}}$ Traveling-Wave Photodetectors. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 1244-1249.	2.9	0
113	Ferromagnetic nanowire-loaded membranes for microwave electronics. Journal of Magnetism and Magnetic Materials, 2009, 321, 2055-2065.	1.0	89
114	Isolator concept based on ferromagnetic nanowired substrates. , 2009, , .		10
115	A Variational Approach for Propagation in Ferromagnetic Nanowired Composite. Journal of Computational and Theoretical Nanoscience, 2009, 6, 2001-2008.	0.4	3
116	Artificial Ferromagnetic Nanostructured Substrates for Planar Tunable Circuits. , 2009, , .		0
117	Multiple resonances in arrays of spiral resonators designed for magnetic resonance imaging. Microwave and Optical Technology Letters, 2008, 50, 1945-1950.	0.9	8
118	Microwave absorbers based on foamed nanocomposites with graded concentration of carbon nanotubes. , 2008, , .		17
119	Foams of polycaprolactone/MWNT nanocomposites for efficient EMI reduction. Journal of Materials Chemistry, 2008, 18, 792.	6.7	293
120	Ballistic nanodevices for high frequency applications. International Journal of Nanotechnology, 2008, 5, 796.	0.1	5
121	Experimental studies of heterodyne mixing in Y-branch ballistic nano-junction. , 2007, , .		0
122	Experimental studies of heterodyne mixing in Y-branch ballistic nano-junction. , 2007, , .		0
123	Theoretical and experimental investigations of planar metamaterials at radio frequencies for magnetic resonance imaging. , 2007, , .		0
124	Theoretical and Experimental Investigations of Multiple Resonant Frequencies in Single Negative Metamaterials. , 2007, , .		0
125	Permittivity Model for Ferromagnetic Nanowired Substrates. IEEE Microwave and Wireless Components Letters, 2007, 17, 492-494.	2.0	31
126	Multiwalled Carbon Nanotube/Poly(μ -caprolactone) Nanocomposites with Exceptional Electromagnetic Interference Shielding Properties. Journal of Physical Chemistry C, 2007, 111, 11186-11192.	1.5	142

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127	Ferromagnetic material with negative permeability for tunable left-handed devices. , 2007, , .		3
128	Ballistic nano-devices for high frequency applications. Thin Solid Films, 2007, 515, 4321-4326.	0.8	13
129	Negative Differential Transconductance and Nonreciprocal Effects in a Y-Branch Nanojunction: High-Frequency Analysis. IEEE Nanotechnology Magazine, 2006, 5, 750-757.	1.1	17
130	Solutions for input impedance matching of nanodevices: Application to Y-Branch Junction HF to DC rectifier. , 2006, , .		2
131	Accurate and Efficient Modeling of Monostatic GPR Signal of Dielectric Targets Buried in Stratified Media. Journal of Electromagnetic Waves and Applications, 2006, 20, 283-290.	1.0	26
132	Buried target signature extraction from ground-penetrating radar signal: measurements and simulations. Near Surface Geophysics, 2006, 4, 31-38.	0.6	2
133	Numerical parametric study of buried target ground-penetrating radar signature. , 2006, , .		0
134	Carbon nanotube composites for broadband microwave absorbing materials. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 2745-2754.	2.9	193
135	Defect modes in microstrip lines on electromagnetic band-gap substrates of finite extent. Microwave and Optical Technology Letters, 2006, 48, 144-150.	0.9	4
136	Periodic Metamaterials Combining Ferromagnetic Nanowires and Dielectric Structures for Planar Circuits Applications. Electromagnetics, 2006, 26, 261-277.	0.3	14
137	Design of compact loop-wire medium at radio frequencies for magnetic resonance imaging. , 2006, , .		0
138	Properties of Metallic Photonic Band Gap Material with Defect at Microwave Frequencies: Calculation and Experimental Verification. Journal of Electromagnetic Waves and Applications, 2006, 20, 1967-1980.	1.0	24
139	Theoretical and experimental characterization of Y-branch nanojunction rectifier up to 94 GHz. , 2005, , .		7
140	Low and room temperature studies of RF to DC rectifiers based on ballistic transport. Microelectronic Engineering, 2005, 81, 194-200.	1.1	7
141	Nonlinear electron transport properties of InAlAs/InGaAs based Y-branch junctions for microwave rectification at room temperature. Solid State Communications, 2005, 134, 217-222.	0.9	23
142	Transmission lines on periodic bandgap metamaterials: from microwaves to optics applications. Journal of Optics, 2005, 7, S124-S132.	1.5	14
143	An analytical small-signal model for submicrometer n^+i-n^+ traveling-wave photodetectors. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 3238-3243.	2.9	2
144	Optimising intrinsic performance of InAlAs/InGaAs Y-branch junction for nonlinear RF operation. Electronics Letters, 2005, 41, 282.	0.5	1

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145	Carbon nanotube composites for broadband microwave absorbing materials. , 2005, , .		127
146	ANALYSIS OF BANDWIDTH AND NONLINEAR EFFECTS IN InGaAs-BASED BALLISTIC NANODEVICES FOR APPLICATIONS UP TO THz RANGE. International Journal of Nanoscience, 2005, 04, 1033-1038.	0.4	0
147	Broad-Band Frequency Characterization of Double Y-Branch Nanojunction Operating as Room-Temperature RF to DC Rectifier. IEEE Nanotechnology Magazine, 2005, 4, 576-580.	1.1	19
148	An unbiased integrated microstrip circulator based on magnetic nanowired substrate. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 2043-2049.	2.9	63
149	Unbiased microwave circulator based on ferromagnetic nanowires arrays of tunable magnetization state. Journal Physics D: Applied Physics, 2005, 38, 2759-2763.	1.3	39
150	Experimental demonstration of the origin of photonic bandgap creation and associated defect modes in microwave planar circuits. Microwave and Optical Technology Letters, 2004, 41, 5-9.	0.9	12
151	Optoelectronic control of coplanar transmission lines up to 110 GHz. , 2004, 5466, 101.		1
152	A simple detection method of buried cylindrical targets applicable to landmines. Microwave and Optical Technology Letters, 2003, 38, 80-83.	0.9	1
153	Long dephasing time and high temperature ballistic transport in an InGaAs open quantum dot. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 143-146.	1.3	2
154	Magnetic photonic band-gap material at microwave frequencies based on ferromagnetic nanowires. Applied Physics Letters, 2003, 83, 2378-2380.	1.5	71
155	An improved multiline analysis for monolithic inductors. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 100-108.	2.9	10
156	Design of a stopband filter based on a magnetic photonic bandgap material. , 2003, , .		1
157	Tunable remanent state resonance frequency in arrays of magnetic nanowires. Applied Physics Letters, 2002, 81, 2032-2034.	1.5	58
158	An analytical small-signal bias-dependent nonuniform model for p-i-n traveling-wave photodetectors. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 2553-2557.	2.9	3
159	Ferromagnetic resonance studies of nickel and permalloy nanowire arrays. Journal of Magnetism and Magnetic Materials, 2002, 249, 228-233.	1.0	59
160	Effect of dipolar interactions on the ferromagnetic resonance properties in arrays of magnetic nanowires. Journal of Applied Physics, 2001, 89, 6704-6706.	1.1	77
161	A fully analytical model to describe the high-frequency behavior of p-i-n photodiodes. Microwave and Optical Technology Letters, 2001, 31, 329-333.	0.9	9
162	Dipolar interactions in arrays of nickel nanowires studied by ferromagnetic resonance. Physical Review B, 2001, 63, .	1.1	290

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163	A wideband line-line dielectrometric method for liquids, soils, and planar substrates. IEEE Transactions on Instrumentation and Measurement, 2001, 50, 1343-1348.	2.4	64
164	Short-term project on microwave passive planar circuits: an educational approach. IEEE Transactions on Education, 2000, 43, 227-236.	2.0	3
165	A four-port scattering matrix formalism for p-i-n traveling-wave photodetectors. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 1007-1016.	2.9	2
166	Effect of surface wave diffraction on radiation pattern of slot antenna etched in finite ground plane. Electronics Letters, 2000, 36, 1444.	0.5	14
167	Ferromagnetic resonance in submicron metallic wires. IEEE Transactions on Magnetics, 2000, 36, 3482-3484.	1.2	8
168	Variational nonquasi-static formulations for the impedance of planar transmission lines. IEEE Transactions on Microwave Theory and Techniques, 1999, 47, 995-1003.	2.9	0
169	Characterization of wet soils in the 2-18 GHz frequency range. Microwave and Optical Technology Letters, 1999, 21, 333-335.	0.9	6
170	Variational principles are efficient CAD tools for planar tunable MICs involving lossy gyrotropic layers. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 1999, 12, 417-440.	1.2	1
171	A novel nanostructured magnetic planar substrate for wideband tunable microwave applications. , 1999, , .		0
172	Microwave properties of metallic nanowires. Applied Physics Letters, 1999, 75, 1769-1771.	1.5	68
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