

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	Polymer/carbon based composites as electromagnetic interference (EMI) shielding materials. <i>Materials Science and Engineering Reports</i> , 2013, 74, 211-232.	14.8	975
2	Foams of polycaprolactone/MWNT nanocomposites for efficient EMI reduction. <i>Journal of Materials Chemistry</i> , 2008, 18, 792.	6.7	293
3	Dipolar interactions in arrays of nickel nanowires studied by ferromagnetic resonance. <i>Physical Review B</i> , 2001, 63, .	1.1	290
4	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
5	A Comprehensive Survey of "Metamaterial Transmission-Line Based Antennas: Design, Challenges, and Applications" IEEE Access, 2020, 8, 144778-144808.	2.6	202
6	Carbon nanotube composites for broadband microwave absorbing materials. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006, 54, 2745-2754.	2.9	193
7	Multiwalled Carbon Nanotube/Poly(μ -caprolactone) Nanocomposites with Exceptional Electromagnetic Interference Shielding Properties. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11186-11192.	1.5	142
8	Carbon nanotube composites for broadband microwave absorbing materials. , 2005, , .		127
9	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
10	Multifunctional hybrids for electromagnetic absorption. <i>Acta Materialia</i> , 2011, 59, 3255-3266.	3.8	110
11	Ferromagnetic nanowire-loaded membranes for microwave electronics. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 2055-2065.	1.0	89
12	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
13	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
14	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
15	Straightforward synthesis of conductive graphene/polymer nanocomposites from graphite oxide. <i>Chemical Communications</i> , 2011, 47, 2544.	2.2	81
16	Effect of dipolar interactions on the ferromagnetic resonance properties in arrays of magnetic nanowires. <i>Journal of Applied Physics</i> , 2001, 89, 6704-6706.	1.1	77
17	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
18	Magnetic photonic band-gap material at microwave frequencies based on ferromagnetic nanowires. <i>Applied Physics Letters</i> , 2003, 83, 2378-2380.	1.5	71

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19	Microwave properties of metallic nanowires. Applied Physics Letters, 1999, 75, 1769-1771.	1.5	68
20	Microwave circulator based on ferromagnetic nanowires in an alumina template. Nanotechnology, 2010, 21, 145208.	1.3	67
21	Thin smart multilayer microwave absorber based on hybrid structure of polymer and carbon nanotubes. Applied Physics Letters, 2012, 100, .	1.5	67
22	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
23	Electromagnetic Absorption Properties of Carbon Nanotube Nanocomposite Foam Filling Honeycomb Waveguide Structures. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 43-51.	1.4	64
24	An unbiased integrated microstrip circulator based on magnetic nanowired substrate. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 2043-2049.	2.9	63
25	Ferromagnetic resonance studies of nickel and permalloy nanowire arrays. Journal of Magnetism and Magnetic Materials, 2002, 249, 228-233.	1.0	59
26	Influence of carbon nanoparticles on the polymerization and EMI shielding properties of PU nanocomposite foams. RSC Advances, 2014, 4, 7911.	1.7	59
27	Tunable remanent state resonance frequency in arrays of magnetic nanowires. Applied Physics Letters, 2002, 81, 2032-2034.	1.5	58
28	Multifunctional architected materials for electromagnetic absorption. Scripta Materialia, 2013, 68, 50-54.	2.6	56
29	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
30	Comparing the effect of carbon-based nanofillers on the physical properties of flexible polyurethane foams. Journal of Materials Science, 2012, 47, 5673-5679.	1.7	50
31	Processing of a new class of multifunctional hybrid for electromagnetic absorption based on a foam filled honeycomb. Materials and Design, 2016, 89, 323-334.	3.3	46
32	Multibeam and Beam Scanning With Modulated Metasurfaces. IEEE Transactions on Antennas and Propagation, 2020, 68, 1273-1281.	3.1	46
33	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
34	Carbon Nanotubes (CNTs) from Synthesis to Functionalized (CNTs) Using Conventional and New Chemical Approaches. Journal of Nanomaterials, 2021, 2021, 1-31.	1.5	45
35	A novel nanostructured microstrip device for tunable stopband filtering applications at microwaves. , 1999, 9, 401-403.		42
36	A comprehensive survey on "circular polarized antennas"™ for existing and emerging wireless communication technologies. Journal Physics D: Applied Physics, 2022, 55, 033002.	1.3	42

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37	Unbiased microwave circulator based on ferromagnetic nanowires arrays of tunable magnetization state. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 2759-2763.	1.3	39
38	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
39	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
40	Functionalized Nanoporous Thin Films From Photocleavable Block Copolymers. <i>Macromolecular Rapid Communications</i> , 2012, 33, 199-205.	2.0	37
41	Wavelength-scale lens microscopy via thermal reshaping of colloidal particles. <i>Nanotechnology</i> , 2012, 23, 285708.	1.3	36
42	Spectral domain form of new variational expression for very fast calculation of multilayered lossy planar line parameters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1994, 42, 2099-2106.	2.9	34
43	Direct Transcription of Two-Dimensional Colloidal Crystal Arrays into Three-Dimensional Photonic Crystals. <i>Advanced Functional Materials</i> , 2013, 23, 1164-1171.	7.8	33
44	Permittivity Model for Ferromagnetic Nanowired Substrates. <i>IEEE Microwave and Wireless Components Letters</i> , 2007, 17, 492-494.	2.0	31
45	Method of Moments Simulation of Modulated Metasurface Antennas With a Set of Orthogonal Entire-Domain Basis Functions. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 1119-1130.	3.1	30
46	Differential phase shift in nonreciprocal microstrip lines on magnetic nanowired substrates. <i>Applied Physics Letters</i> , 2010, 96, 072508.	1.5	28
47	Accurate and Efficient Modeling of Monostatic GPR Signal of Dielectric Targets Buried in Stratified Media. <i>Journal of Electromagnetic Waves and Applications</i> , 2006, 20, 283-290.	1.0	26
48	Supercritical CO ₂ and polycarbonate based nanocomposites: A critical issue for foaming. <i>Polymer</i> , 2014, 55, 2422-2431.	1.8	25
49	Properties of Metallic Photonic Band Gap Material with Defect at Microwave Frequencies: Calculation and Experimental Verification. <i>Journal of Electromagnetic Waves and Applications</i> , 2006, 20, 1967-1980.	1.0	24
50	Nonlinear electron transport properties of InAlAs/InGaAs based Y-branch junctions for microwave rectification at room temperature. <i>Solid State Communications</i> , 2005, 134, 217-222.	0.9	23
51	Investigation of Microwave Absorption Mechanisms in Microcellular Foamed Conductive Composites. <i>Micro</i> , 2021, 1, 86-101.	0.9	22
52	Self-Biased Nonreciprocal Microstrip Phase Shifter on Magnetic Nanowired Substrate Suitable for Gyration Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012, 60, 2152-2157.	2.9	21
53	Fourier-Bessel Basis Functions for the Analysis of Elliptical Domain Metasurface Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018, 17, 675-678.	2.4	21
54	Highly Efficient Wideband Microwave Absorbers Based on Zero-Valent Fe ⁰ -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

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55	Control of Microwave Circulation Using Unbiased Ferromagnetic Nanowires Arrays. IEEE Transactions on Magnetics, 2013, 49, 4261-4264.	1.2	20
56	Frequency selective microwave absorption induced by controlled orientation of graphene-like nanoplatelets in thin polymer films. Applied Physics Letters, 2014, 105, .	1.5	20
57	Decoration of nanocarbon solids with magnetite nanoparticles: towards microwave metamaterial absorbers. Journal of Materials Chemistry C, 2016, 4, 3290-3303.	2.7	20
58	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
59	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
60	Electromagnetic wave absorption characteristics of single and double layer absorbers based on trimetallic FeCoNi@C metal-organic framework incorporated with MWCNTs. Synthetic Metals, 2021, 271, 116634.	2.1	18
61	Negative Differential Transconductance and Nonreciprocal Effects in a Y-Branch Nanojunction: High-Frequency Analysis. IEEE Nanotechnology Magazine, 2006, 5, 750-757.	1.1	17
62	Microwave absorbers based on foamed nanocomposites with graded concentration of carbon nanotubes. , 2008, , .		17
63	Substrate integrated waveguide isolator based on ferromagnetic nanowires in porous alumina template. Applied Physics Letters, 2014, 105, .	1.5	16
64	Design and Fabrication of a Printed Tri-Band Antenna for 5G Applications Operating across Ka-, and V-Band Spectrums. Electronics (Switzerland), 2021, 10, 2674.	1.8	16
65	Simulation and Optimization of Electromagnetic Absorption of Polycarbonate/CNT Composites Using Machine Learning. Micromachines, 2020, 11, 778.	1.4	15
66	Bandwidth and gain enhancement of composite right left handed metamaterial transmission line planar antenna employing a non foster impedance matching circuit board. Scientific Reports, 2021, 11, 7472.	1.6	15
67	Effect of surface wave diffraction on radiation pattern of slot antenna etched in finite ground plane. Electronics Letters, 2000, 36, 1444.	0.5	14
68	Transmission lines on periodic bandgap metamaterials: from microwaves to optics applications. Journal of Optics, 2005, 7, S124-S132.	1.5	14
69	Periodic Metamaterials Combining Ferromagnetic Nanowires and Dielectric Structures for Planar Circuits Applications. Electromagnetics, 2006, 26, 261-277.	0.3	14
70	Template Approach for Novel Magnetic-Ferroelectric Nanocomposites. Applied Physics Express, 2011, 4, 115001.	1.1	14
71	Q-factor improvement of integrated inductors using high aspect ratio ferromagnetic nanowires. Microwave and Optical Technology Letters, 2012, 54, 1633-1637.	0.9	14
72	Inkjet-printed frequency-selective surfaces based on carbon nanotubes for ultra-wideband thin microwave absorbers. Journal of Materials Science: Materials in Electronics, 2020, 31, 2190-2201.	1.1	14

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73	Electromagnetic performance, optical and physiochemical features of CaTiO ₃ /NiO and SrFe ₁₂ O ₁₉ /NiO nanocomposites based bilayer absorber. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 879-892.	5.0	14
74	Ballistic nano-devices for high frequency applications. <i>Thin Solid Films</i> , 2007, 515, 4321-4326.	0.8	13
75	Configurable Microwave Filter for Signal Processing Based on Arrays of Bistable Magnetic Nanowires. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017, 65, 72-77.	2.9	13
76	Power balance and efficiency of metasurface antennas. <i>Scientific Reports</i> , 2020, 10, 17508.	1.6	13
77	A new variational formulation, applicable to shielded and open multilayered transmission lines with gyrotropic non-Hermitian lossy media and lossless conductors. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1994, 42, 2107-2111.	2.9	12
78	Experimental demonstration of the origin of photonic bandgap creation and associated defect modes in microwave planar circuits. <i>Microwave and Optical Technology Letters</i> , 2004, 41, 5-9.	0.9	12
79	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
80	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
81	An improved multiline analysis for monolithic inductors. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2003, 51, 100-108.	2.9	10
82	Microwave Properties of Ferromagnetic Nanowires and Applications to Tunable Devices. <i>Solid State Phenomena</i> , 0, 152-153, 389-393.	0.3	10
83	Isolator concept based on ferromagnetic nanowired substrates. , 2009, , .		10
84	Electric Field Integral Equation-Based Synthesis of Elliptical-Domain Metasurface Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 1270-1274.	3.1	10
85	A traveling-wave model for optimizing the bandwidth of p-i-n photodetectors in silicon-on-insulator technology. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1998, 4, 953-963.	1.9	9
86	A fully analytical model to describe the high-frequency behavior of p-i-n photodiodes. <i>Microwave and Optical Technology Letters</i> , 2001, 31, 329-333.	0.9	9
87	Multifrequency Band Synthesis of Modulated Metasurface Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020, 19, 134-138.	2.4	9
88	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
89	Singular Integral Formulations for Electrodynamics Analysis of Metamaterial-Inspired Antenna Array. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021, 20, 179-183.	2.4	9
90	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

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91	Optimum power transfer in RF front end systems using adaptive impedance matching technique. Scientific Reports, 2021, 11, 11825.	1.6	9
92	Ferromagnetic resonance in submicron metallic wires. IEEE Transactions on Magnetics, 2000, 36, 3482-3484.	1.2	8
93	Multiple resonances in arrays of spiral resonators designed for magnetic resonance imaging. Microwave and Optical Technology Letters, 2008, 50, 1945-1950.	0.9	8
94	A laser-assisted process to produce patterned growth of vertically aligned nanowire arrays for monolithic microwave integrated devices. Nanotechnology, 2016, 27, 235301.	1.3	8
95	Absorption modulation of FSS-polymer nanocomposites through incorporation of conductive nanofillers. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	8
96	Microwave Characterization of Metal-Decorated Carbon Nanopowders Using a Single Transmission Line. Journal of Nanomaterials, 2019, 2019, 1-11.	1.5	8
97	Study of Absorption in Carbon Nanotube Composites from 1HZ to 40GHZ. International Journal of Microwave Engineering, 2017, 2, 01-13.	0.0	8
98	Integrated microwave inductors on Silicon-on-Insulator substrate. , 1997, , .		7
99	Wide-band modeling of photoinduced carriers at the end of an open-ended microstrip line. IEEE Journal of Selected Topics in Quantum Electronics, 1998, 4, 948-952.	1.9	7
100	Novel fast multilayer analysis of parasitic effects in CPW inductors for MMICs. , 1998, 8, 72-74.		7
101	Theoretical and experimental characterization of Y-branch nanojunction rectifier up to 94 GHz. , 2005, , .		7
102	Low and room temperature studies of RF to DC rectifiers based on ballistic transport. Microelectronic Engineering, 2005, 81, 194-200.	1.1	7
103	Leaky wave radiation phenomena in metamaterial transmission line based on complementary split ring resonators. Microwave and Optical Technology Letters, 2011, 53, 2025-2029.	0.9	7
104	Thin Oriented Polymer Carbon Nanotube Composites for Microwave Absorption. Materials Today: Proceedings, 2016, 3, 491-496.	0.9	7
105	Flexible polarization-dependent absorbers based on patterned carbon nanotubes films. Microwave and Optical Technology Letters, 2017, 59, 1164-1167.	0.9	7
106	Wideband microwave absorption in thin nanocomposite films induced by a concentration gradient of mixed carbonaceous nanostructures. Journal of Materials Science: Materials in Electronics, 2019, 30, 19147-19153.	1.1	7
107	A ultra-wideband thin microwave absorber using inkjet-printed frequency-selective surfaces combining carbon nanotubes and magnetic nanoparticles. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	7
108	Flexible Multilayer Combining Nickel Nanowires and Polymer Films for Broadband Microwave Absorption. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 1661-1668.	1.4	7

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109	Theoretical and experimental evidence of nonreciprocal effects on magnetostatic forward volume wave resonators. , 1995, 5, 195-197.		6
110	Characterization of wet soils in the 2-18 GHz frequency range. Microwave and Optical Technology Letters, 1999, 21, 333-335.	0.9	6
111	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
112	Multifunctional Material Structures Based on Laser-Etched Carbon Nanotube Arrays. Micromachines, 2014, 5, 756-765.	1.4	6
113	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
114	Fabrication of Microwave Devices Based on Magnetic Nanowires Using a Laser-Assisted Process. Micromachines, 2019, 10, 475.	1.4	6
115	A novel CPW DC-blocking topology with improved matching at W-band. , 1998, 8, 149-151.		5
116	An efficient energetic variational principle for modeling one-port lossy gyrotropic YIG straight-edge resonators. IEEE Transactions on Microwave Theory and Techniques, 1998, 46, 932-939.	2.9	5
117	Ballistic nanodevices for high frequency applications. International Journal of Nanotechnology, 2008, 5, 796.	0.1	5
118	57–64 GHz seven-pole bandpass filter Substrate Integrated Waveguide (SIW) in LTCC. , 2011, , .		5
119	Low Phase Noise Oscillator at 60 GHz Stabilized by a Substrate Integrated Cavity Resonator in LTCC. IEEE Microwave and Wireless Components Letters, 2014, 24, 887-889.	2.0	5
120	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
121	Numerical analysis of modulated metasurface antennas using Fourier-Bessel basis functions. , 2017, , .		5
122	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
123	Foamed Nanocomposites for EMI Shielding Applications. , 0, , .		4
124	A MEMS variable Faraday cage as tuning element for integrated silicon micromachined cavity resonators. , 2010, , .		4
125	Compact cavity resonators using high impedance surfaces. Applied Physics A: Materials Science and Processing, 2011, 103, 799-804.	1.1	4
126	Simple, convenient, and nondestructive electromagnetic characterization technique for composite and multiscale hybrid samples at microwave frequencies. Microwave and Optical Technology Letters, 2014, 56, 504-509.	0.9	4

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127	Ranking Broadband Microwave Absorption Performance of Multilayered Polymer Nanocomposites Containing Carbon and Metallic Nanofillers. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	4
128	Short-term project on microwave passive planar circuits: an educational approach. <i>IEEE Transactions on Education</i> , 2000, 43, 227-236.	2.0	3
129	An analytical small-signal bias-dependent nonuniform model for p-i-n traveling-wave photodetectors. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2002, 50, 2553-2557.	2.9	3
130	Modeling photo-induced plasmas in planar transmission lines for switching millimeter-wave signals. , 0, , .		3
131	Nanoscaled double Y-branch junction operating as room temperature RF to DC rectifier. , 0, , .		3
132	Ferromagnetic material with negative permeability for tunable left-handed devices. , 2007, , .		3
133	A Variational Approach for Propagation in Ferromagnetic Nanowired Composite. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009, 6, 2001-2008.	0.4	3
134	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
135	V-band low phase-noise oscillator based on a cavity resonator integrated in the silicon substrate of the MCM-D platform. <i>Microwave and Optical Technology Letters</i> , 2012, 54, 1788-1792.	0.9	3
136	Electrodes-oxide-semiconductor device for biosensing: Renewed conformal analysis and multilayer algorithm. <i>Journal of Electroanalytical Chemistry</i> , 2020, 856, 113651.	1.9	3
137	Smart Nanocomposites for Nanosecond Signal Control: The Nano4waves Approach. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1102.	1.3	3
138	Nonlinear electrical transport in Fe3O4-decorated graphene nanoplatelets. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 065304.	1.3	3
139	A four-port scattering matrix formalism for p-i-n traveling-wave photodetectors. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2000, 48, 1007-1016.	2.9	2
140	Long dephasing time and high temperature ballistic transport in an InGaAs open quantum dot. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 17, 143-146.	1.3	2
141	An analytical small-signal model for submicrometer n/sup +/-i-n/sup +/- traveling-wave photodetectors. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005, 53, 3238-3243.	2.9	2
142	Solutions for input impedance matching of nanodevices: Application to Y-Branch Junction HF to DC rectifier. , 2006, , .		2
143	Buried target signature extraction from groundâ€penetrating radar signal: measurements and simulations. <i>Near Surface Geophysics</i> , 2006, 4, 31-38.	0.6	2
144	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

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145	Polymer/carbon nanotube composites for electromagnetic interference reduction. , 2010, , 563-587.		2
146	Electromagnetic absorption of sandwich panel made of glass fiber reinforced polymer and nanocomposite foam filled honeycomb. , 2012, , .		2
147	Wideband nonlinear characteristics of random multiwalled carbon nanotubes network. Microwave and Optical Technology Letters, 2013, 55, 2648-2652.	0.9	2
148	Colloidal pattern replication through contact photolithography operated in a "Talbot" Fabry "Perot"™ regime. Nanotechnology, 2014, 25, 145303.	1.3	2
149	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
150	Analysis of Elliptical Aperture Metasurface Antennas. , 2018, , .		2
151	Near-field Shaping by Leaky-Wave Metasurfaces: OAM and Bessel Beams Synthesis. , 2019, , .		2
152	Wideband electromagnetic wave absorption by tuning morphology and layer arrangement in Bi-layer absorber based on doped SrFe ₁₂ O ₁₉ nanocomposite powders. Ceramics International, 2022, 48, 30687-30694.	2.3	2
153	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
154	A simple detection method of buried cylindrical targets applicable to landmines. Microwave and Optical Technology Letters, 2003, 38, 80-83.	0.9	1
155	Design of a stopband filter based on a magnetic photonic bandgap material. , 2003, , .		1
156	Optoelectronic control of coplanar transmission lines up to 110 GHz. , 2004, 5466, 101.		1
157	Optimising intrinsic performance of InAlAs/InGaAs Y-branch junction for nonlinear RF operation. Electronics Letters, 2005, 41, 282.	0.5	1
158	Performance of low-pass filter based on non-uniform capacitor sections. , 2010, , .		1
159	Frequency-selective coatings based on EBG structure combining carbon nanotubes with polymeric or ceramic substrate. , 2014, , .		1
160	Analysis of slow-wave propagation in coplanar transmission lines with inkjet printed multiwalled carbon nanotubes network. Microwave and Optical Technology Letters, 2014, 56, 1118-1124.	0.9	1
161	Carbon nanotube arrays for coupled electromagnetic and thermal management in high power electronics: Influence of microstructuration and stress investigated by IR thermography. , 2014, , .		1
162	Flexible twist polarizer based on ultrathin multi-layered polymer-carbon nanotubes composite films. Microwave and Optical Technology Letters, 2017, 59, 2844-2848.	0.9	1

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163	A thin ultra-wideband microwave absorbing structure printed on flexible substrate with resistive-ink made of multiwall carbon-nanotube. , 2017, , .		1
164	A Novel Laser-Assisted Fabrication Process for Nanowired Substrate Integrated Devices. , 2018, , .		1
165	Editorial for the Special Issue on "Nanodevices for Microwave and Millimeter Wave Applications" Micromachines, 2020, 11, 477.	1.4	1
166	Design of substrate integrated waveguides based on nanowires: Numerical guidelines. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 0, , e2906.	1.2	1
167	Parametric Study of Microwave Absorption in Lossy Dielectric Slabs. International Journal of Microwave Engineering, 2016, 1, 01-12.	0.0	1
168	Wideband analytical model of an open-ended microstrip line under illumination. , 1997, , .		0
169	Comparison of finite-element method with variational analytical methods for planar guiding structures. Microwave and Optical Technology Letters, 1998, 18, 252-258.	0.9	0
170	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
171	A novel nanostructured magnetic planar substrate for wideband tunable microwave applications. , 1999, , .		0
172	Tunable zero field resonance frequency in arrays of magnetic alloy nanowires. , 0, , .		0
173	Accounting for multiple reflections and antenna radiation pattern in gpr signal modeling and experimental validation. , 0, , .		0
174	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
175	Numerical parametric study of buried target ground-penetrating radar signature. , 2006, , .		0
176	Design of compact loop-wire medium at radio frequencies for magnetic resonance imaging. , 2006, , .		0
177	Experimental studies of heterodyne mixing in Y-branch ballistic nano-junction. , 2007, , .		0
178	Experimental studies of heterodyne mixing in Y-branch ballistic nano-junction. , 2007, , .		0
179	Theoretical and experimental investigations of planar metamaterials at radio frequencies for magnetic resonance imaging. , 2007, , .		0
180	Theoretical and Experimental Investigations of Multiple Resonant Frequencies in Single Negative Metamaterials. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
181	Embedded Grating H^{H} I^{H} H^{H} Traveling-Wave Photodetectors. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 1244-1249.	2.9	0
182	Quasi-optical technique for sensing bond quality of silicon wafers. Proceedings of SPIE, 2010, , .	0.8	0
183	Investigation of internal nonhomogenous volumes of perturbation as tuning and miniaturization elements for cavity resonators. Microwave and Optical Technology Letters, 2012, 54, 491-496.	0.9	0
184	Multifunctional metamaterial absorber based on honeycomb filled with epoxy-carbon nanotube nanocomposite and split ring resonator. , 2013, , .		0
185	Macromol. Chem. Phys. 12/2015. Macromolecular Chemistry and Physics, 2015, 216, 1380-1380.	1.1	0
186	Nano4Waves: A metamaterial approach towards smart nanocomposites for nanosecond signal control. , 2015, , .		0
187	Nearly-perfect circular polarization converter formed by triangular-geometric chiral metamaterial. , 2016, , .		0
188	Multilayered absorber over K-and Ka-band based on graded concentration of carbon nanofillers: Modeling, Fabrication, and Experimental validation. , 2019, , .		0
189	Dual-Band Beams Generation with Metasurface based on the EFIE. , 2020, , .		0
190	Artificial Ferromagnetic Nanostructured Substrates for Planar Tunable Circuits. , 2009, , .		0
191	Challenges and Perspectives for SIW Hybrid Structures Combining Nanowires and Porous Templates. , 0, , .		0
192	Taper Transmission Line Based Measurementâ€™A Thru-Only De-Embedding Approach. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 4199-4210.	2.9	0