

Ashwin K Iyer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62
papers

1,834
citations

13
h-index

42
g-index

76
ext. papers

2,314
ext. citations

4.2
avg, IF

5.15
L-index

#	Paper	IF	Citations
62	A Battery-Less Six-Port RFID-Based Wireless Sensor Architecture for IoT Applications. <i>IEEE Internet of Things Journal</i> , 2022 , 1-1	10.7	
61	Metamaterial Liner for MRI Excitation Part 1: Theory, Modelling and Design. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
60	Metamaterial Liner for MRI Excitation Part 2: Design and Performance at 4.7T. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
59	The MTM-EBG as a Rigorous Multiconductor Model of the UC-EBG and Approaches for Miniaturization. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	
58	Low-Profile Uniplanar Dual-Band and Dual-Polarized Microstrip Patch Antenna Using Embedded MTM-EBGs. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 3645-3653	4.9	4
57	A Survey on Battery-Less RFID-Based Wireless Sensors. <i>Micromachines</i> , 2021 , 12,	3.3	7
56	Facilitation of MRI Detection at 3 Tesla by Engineering the Electromagnetic Properties of a Metamaterial Slab Employed as a Receive Array 2021 ,		1
55	Patterning of Complex, Nanometer-Scale Features in Wide-Area Gold Nanoplasmonic Structures Using Helium Focused Ion Beam Milling. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 43209-43220	9.5	1
54	A Battery-Less RFID Sensor Architecture with Distance Ambiguity Resolution for Smart Home IoT Applications. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	6
53	Simulation Comparison of Birdcage Coil and Metamaterial Liner for MRI at 3T and 4.7T 2021 ,		2
52	Design of a Highly Miniaturized, Inherently Matched, Spherical Folded Dipole Antenna and Evaluation of its Quality Factor. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	4
51	Surface-enhanced mid-infrared absorption spectroscopy using miniaturized-disc metasurface. <i>Scientific Reports</i> , 2021 , 11, 23557	4.9	1
50	A Strongly Miniaturized and Inherently Matched Folded Dipole Antenna for Narrowband Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 3377-3386	4.9	8
49	Metamaterials and Metasurfaces: Historical Context, Recent Advances, and Future Directions. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1223-1231	4.9	26
48	Single-Layer Dual-Band Polarization-Selective Metafilm With Independently Controlled and Closely Spaced Shielding Bands. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1448-1457	4.9	8
47	Mu-Negative and Near-Zero Lined Disks for Surface-Enhanced Mid-Infrared Spectroscopy 2020 ,		1
46	Fully Printed and Electrically Small Folded Dipole with Inherent Matching 2020 ,		1

45	Analytical and Numerical Investigation of Radiation Enhancement by Anisotropic Metamaterial Shells. <i>IEEE Access</i> , 2020 , 8, 2983-2994	3.5	1
44	Theory and Design of Dual-Band Microstrip Networks Using Embedded Metamaterial-Based Electromagnetic Bandgap Structures. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1761-1772	4.9	3
43	A Fano-Reflection Metafilm Composed of Metamaterial-Lined Discs. <i>IEEE Access</i> , 2020 , 8, 117018-117027	3.5	2
42	Compact Mechanically Tunable Microstrip Bandstop Filter With Constant Absolute Bandwidth Using an Embedded Metamaterial-Based EBG. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 4369-4380	4.1	3
41	Embedded MTM-EBGs in Patch Antenna for Simultaneously Dual-Band and Dual-Polarized Operation 2020 ,		1
40	. <i>IEEE Access</i> , 2020 , 8, 219955-219970	3.5	
39	A Highly Miniaturized and Inherently Conjugately Matched Folded Dipole-Based RFID Tag Antenna. <i>IEEE Access</i> , 2019 , 7, 101658-101664	3.5	6
38	Optical Metasurface Based on Subwavelength Nanoplasmonic Metamaterial-Lined Apertures. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019 , 25, 1-8	3.8	11
37	Dual-Band Microstrip Corporate Feed Network Using an Embedded Metamaterial-Based EBG. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 7031-7039	4.9	5
36	The MTM-EBG: A Fully Uniplanar, Printable, and Embedded Solution for Multi-Band Functionality in Microstrip Devices and Antennas 2019 ,		1
35	Design and Characterization of a Dual-Band Impedance Transformer Based on an Embedded MTM-EBG 2019 ,		1
34	Strongly Enhanced Sensitivity in Planar Microwave Sensors Based on Metamaterial Coupling. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 1843-1855	4.1	135
33	Far-Field Magnification of Subdiffraction Conducting Features Using Metamaterial-Lined Aperture Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 3482-3490	4.9	8
32	Dual-Band Open-Ended Waveguide Feeder Antennas With Collinear Feed Design. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 6358-6363	4.9	5
31	A Dual-Band Quadrature Hybrid Coupler Using Embedded MTM-EBGs 2018 ,		8
30	Compact Tri-Band Microstrip Stub Filter Using Embedded MTM-EBGs 2018 ,		3
29	Choke Rings for Pattern Shaping of a GPR Dipole Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 6781-6790	4.9	9
28	Investigation of choke-ring structures for ground-penetrating radar 2017 ,		1

27	A low-profile dual-band circular patch antenna for GPS using metamaterial-based EBGs 2017 ,		5
26	Subwavelength metamaterial-lined apertures AS far-field imaging devices 2017 ,		1
25	Bandwidth control of cylindrical ring dielectric resonator antennas using metallic cap and sleeve loading. <i>IET Microwaves, Antennas and Propagation</i> , 2017 , 11, 1742-1747	1.6	8
24	Dual-band wilkinson power divider using uniplanar metamaterial-based EBGs 2017 ,		4
23	Dual-Band Microstrip Patch Antenna Using Integrated Uniplanar Metamaterial-Based EBGs. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 5046-5053	4.9	46
22	Experimental Verification of Below-Cutoff Propagation in Miniaturized Circular Waveguides Using Anisotropic ENNZ Metamaterial Liners. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 64, 1297-1305	4.1	20
21	Far-field high-resolution imaging of conducting obstacles using metamaterial-lined aperture arrays 2016 ,		2
20	A class of circular waveguiding structures containing cylindrically anisotropic metamaterials: Applications from radio frequency/microwave to optical frequencies. <i>Journal of Applied Physics</i> , 2016 , 119, 083103	2.5	10
19	A Miniaturized Uniplanar Metamaterial-Based EBG for Parallel-Plate Mode Suppression. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 64, 1176-1185	4.1	24
18	Anisotropic metamaterial optical fibers. <i>Optics Express</i> , 2015 , 23, 9074-85	3.3	24
17	New approach for extraordinary transmission through an array of subwavelength apertures using thin ENNZ metamaterial liners. <i>Optics Express</i> , 2015 , 23, 20356-65	3.3	12
16	Design of multi-band microstrip patch antennas using miniaturized 1D metamaterial-based EBGs 2015 ,		2
15	Free-Space Focusing at C-Band Using a Flat Fully Printed Multilayer Metamaterial Lens. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 4702-4714	4.9	8
14	Miniaturized Circular-Waveguide Probe Antennas Using Metamaterial Liners. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 428-433	4.9	18
13	Design of a frequency notched coplanar tapered slot antenna using split ring resonator 2015 ,		1
12	Radiation characteristics of miniaturized metamaterial-lined waveguide probe antennas 2015 ,		2
11	Below-Cutoff Propagation in Metamaterial-Lined Circular Waveguides. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013 , 61, 3169-3178	4.1	42
10	Analysis of propagation in metamaterial-lined circular waveguides 2013 ,		1

9	Effective-Medium Properties of Cylindrical Transmission-Line Metamaterials. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 1491-1494	3.8	6
8	Free-Space Imaging Beyond the Diffraction Limit Using a Veselago-Pendry Transmission-Line Metamaterial Superlens. <i>IEEE Transactions on Antennas and Propagation</i> , 2009 , 57, 1720-1727	4.9	45
7	A Multilayer Negative-Refractive-Index Transmission-Line (NRI-TL) Metamaterial Free-Space Lens at X-Band. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 2746-2753	4.9	39
6	Characterization of a Multilayered Negative-Refractive-Index Transmission-Line (NRI-TL) Metamaterial 2006 ,		2
5	Negative-Refractive-Index Transmission-Line Metamaterials 2005 , 1-52		7
4	Leaky-wave radiation from planar negative-refractive-index transmission-line metamaterials 2004 ,		10
3	Transmission line models for negative refractive index media and associated implementations without excess resonators. <i>IEEE Microwave and Wireless Components Letters</i> , 2003 , 13, 51-53	2.6	152
2	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2002 , 50, 2702-2712	4.1	952
1	Negative refractive index metamaterials supporting 2-D waves		112