

# Ashwin K Iyer

## List of Publications by Citations

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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	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2002</b> , 50, 2702-2712	4.1	952
61	Transmission line models for negative refractive index media and associated implementations without excess resonators. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2003</b> , 13, 51-53	2.6	152
60	Strongly Enhanced Sensitivity in Planar Microwave Sensors Based on Metamaterial Coupling. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 1843-1855	4.1	135
59	Negative refractive index metamaterials supporting 2-D waves		112
58	Dual-Band Microstrip Patch Antenna Using Integrated Uniplanar Metamaterial-Based EBGs. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 5046-5053	4.9	46
57	Free-Space Imaging Beyond the Diffraction Limit Using a Veselago-Pendry Transmission-Line Metamaterial Superlens. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 1720-1727	4.9	45
56	Below-Cutoff Propagation in Metamaterial-Lined Circular Waveguides. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2013</b> , 61, 3169-3178	4.1	42
55	A Multilayer Negative-Refractive-Index Transmission-Line (NRI-TL) Metamaterial Free-Space Lens at X-Band. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2007</b> , 55, 2746-2753	4.9	39
54	Metamaterials and Metasurfaces: Historical Context, Recent Advances, and Future Directions. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 1223-1231	4.9	26
53	Anisotropic metamaterial optical fibers. <i>Optics Express</i> , <b>2015</b> , 23, 9074-85	3.3	24
52	A Miniaturized Uniplanar Metamaterial-Based EBG for Parallel-Plate Mode Suppression. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2016</b> , 64, 1176-1185	4.1	24
51	Experimental Verification of Below-Cutoff Propagation in Miniaturized Circular Waveguides Using Anisotropic ENNZ Metamaterial Liners. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2016</b> , 64, 1297-1305	4.1	20
50	Miniaturized Circular-Waveguide Probe Antennas Using Metamaterial Liners. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 428-433	4.9	18
49	New approach for extraordinary transmission through an array of subwavelength apertures using thin ENNZ metamaterial liners. <i>Optics Express</i> , <b>2015</b> , 23, 20356-65	3.3	12
48	Optical Metasurface Based on Subwavelength Nanoplasmonic Metamaterial-Lined Apertures. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2019</b> , 25, 1-8	3.8	11
47	Leaky-wave radiation from planar negative-refractive-index transmission-line metamaterials <b>2004</b> ,		10
46	A class of circular waveguiding structures containing cylindrically anisotropic metamaterials: Applications from radio frequency/microwave to optical frequencies. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 083103	2.5	10

45	Choke Rings for Pattern Shaping of a GPR Dipole Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 6781-6790	4.9	9
44	Free-Space Focusing at C-Band Using a Flat Fully Printed Multilayer Metamaterial Lens. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 4702-4714	4.9	8
43	A Strongly Miniaturized and Inherently Matched Folded Dipole Antenna for Narrowband Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 3377-3386	4.9	8
42	Single-Layer Dual-Band Polarization-Selective Metafilm With Independently Controlled and Closely Spaced Shielding Bands. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 1448-1457	4.9	8
41	Far-Field Magnification of Subdiffraction Conducting Features Using Metamaterial-Lined Aperture Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 3482-3490	4.9	8
40	Bandwidth control of cylindrical ring dielectric resonator antennas using metallic cap and sleeve loading. <i>IET Microwaves, Antennas and Propagation</i> , <b>2017</b> , 11, 1742-1747	1.6	8
39	A Dual-Band Quadrature Hybrid Coupler Using Embedded MTM-EBGs <b>2018</b> ,		8
38	Negative-Refractive-Index Transmission-Line Metamaterials <b>2005</b> , 1-52		7
37	A Survey on Battery-Less RFID-Based Wireless Sensors. <i>Micromachines</i> , <b>2021</b> , 12,	3.3	7
36	A Highly Miniaturized and Inherently Conjugately Matched Folded Dipole-Based RFID Tag Antenna. <i>IEEE Access</i> , <b>2019</b> , 7, 101658-101664	3.5	6
35	Effective-Medium Properties of Cylindrical Transmission-Line Metamaterials. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2011</b> , 10, 1491-1494	3.8	6
34	A Battery-Less RFID Sensor Architecture with Distance Ambiguity Resolution for Smart Home IoT Applications. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	6
33	Dual-Band Open-Ended Waveguide Feeder Antennas With Collinear Feed Design. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 6358-6363	4.9	5
32	Dual-Band Microstrip Corporate Feed Network Using an Embedded Metamaterial-Based EBG. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 7031-7039	4.9	5
31	A low-profile dual-band circular patch antenna for GPS using metamaterial-based EBGs <b>2017</b> ,		5
30	Dual-band wilkinson power divider using uniplanar metamaterial-based EBGs <b>2017</b> ,		4
29	Low-Profile Uniplanar Dual-Band and Dual- Polarized Microstrip Patch Antenna Using Embedded MTM-EBGs. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 3645-3653	4.9	4
28	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> , <b>2021</b> , 1-1	4.9	4

27	Theory and Design of Dual-Band Microstrip Networks Using Embedded Metamaterial-Based Electromagnetic Bandgap Structures. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 1761-1772	4.9	3
26	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> , <b>2020</b> , 68, 4369-4380	4.1	3
25	Compact Tri-Band Microstrip Stub Filter Using Embedded MTM-EBGs <b>2018</b> ,		3
24	Design of multi-band microstrip patch antennas using miniaturized 1D metamaterial-based EBGs <b>2015</b> ,		2
23	Radiation characteristics of miniaturized metamaterial-lined waveguide probe antennas <b>2015</b> ,		2
22	Characterization of a Multilayered Negative-Refractive-Index Transmission-Line (NRI-TL) Metamaterial <b>2006</b> ,		2
21	A Fano-Reflection Metafilm Composed of Metamaterial-Lined Discs. <i>IEEE Access</i> , <b>2020</b> , 8, 117018-117023	3.5	2
20	Far-field high-resolution imaging of conducting obstacles using metamaterial-lined aperture arrays <b>2016</b> ,		2
19	Simulation Comparison of Birdcage Coil and Metamaterial Liner for MRI at 3T and 4.7T <b>2021</b> ,		2
18	Investigation of choke-ring structures for ground-penetrating radar <b>2017</b> ,		1
17	Subwavelength metamaterial-lined apertures AS far-field imaging devices <b>2017</b> ,		1
16	Design of a frequency notched coplanar tapered slot antenna using split ring resonator <b>2015</b> ,		1
15	Analysis of propagation in metamaterial-lined circular waveguides <b>2013</b> ,		1
14	Mu-Negative and Near-Zero Lined Disks for Surface-Enhanced Mid-Infrared Spectroscopy <b>2020</b> ,		1
13	Fully Printed and Electrically Small Folded Dipole with Inherent Matching <b>2020</b> ,		1
12	Analytical and Numerical Investigation of Radiation Enhancement by Anisotropic Metamaterial Shells. <i>IEEE Access</i> , <b>2020</b> , 8, 2983-2994	3.5	1
11	Embedded MTM-EBGs in Patch Antenna for Simultaneously Dual-Band and Dual-Polarized Operation <b>2020</b> ,		1
10	The MTM-EBG: A Fully Uniplanar, Printable, and Embedded Solution for Multi-Band Functionality in Microstrip Devices and Antennas <b>2019</b> ,		1

9	Design and Characterization of a Dual-Band Impedance Transformer Based on an Embedded MTM-EBG <b>2019</b> ,		1
8	Facilitation of MRI Detection at 3 Tesla by Engineering the Electromagnetic Properties of a Metamaterial Slab Employed as a Receive Array <b>2021</b> ,		1
7	Patterning of Complex, Nanometer-Scale Features in Wide-Area Gold Nanoplasmonic Structures Using Helium Focused Ion Beam Milling. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 43209-43220	9.5	1
6	Surface-enhanced mid-infrared absorption spectroscopy using miniaturized-disc metasurface. <i>Scientific Reports</i> , <b>2021</b> , 11, 23557	4.9	1
5	Metamaterial Liner for MRI Excitation Part 1: Theory, Modelling and Design. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	1
4	Metamaterial Liner for MRI Excitation Part 2: Design and Performance at 4.7T. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	1
3	The MTM-EBG as a Rigorous Multiconductor Model of the UC-EBG and Approaches for Miniaturization. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	
2	. <i>IEEE Access</i> , <b>2020</b> , 8, 219955-219970	3.5	
1	A Battery-Less Six-Port RFID-Based Wireless Sensor Architecture for IoT Applications. <i>IEEE Internet of Things Journal</i> , <b>2022</b> , 1-1	10.7	