## Mahmoud Shahabadi

# 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.

19 1,329 129 31 h-index g-index citations papers 186 1,653 4.8 2.7 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
129	Disk-loaded silicon micro-ring resonator for high-Q resonance. <i>Optics Express</i> , <b>2021</b> , 29, 22688-22703	3.3	
128	A Fast Computational Method for Characteristic Modes and Eigenvalues of Array Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 7879-7892	4.9	1
127	Entangled Nanoplasmonic Cavities for Estimating Thickness of Surface-Adsorbed Layers. <i>ACS Nano</i> , <b>2020</b> , 14, 8518-8527	16.7	12
126	Dyadic Greenঙ function for the electrically biased graphene-based multilayered spherical structures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2020</b> , 256, 107251	2.1	6
125	Narrow-Band 4.3th Plasmonic Schottky-Barrier Photodetector for CO2 Sensing <b>2019</b> , 3, 1-4		2
124	Analysis of a fiber-optic deep-etched silicon Fabry Perot temperature sensor and modeling its fabrication imperfections. <i>Microsystem Technologies</i> , <b>2019</b> , 25, 389-397	1.7	1
123	Scattering From Graphene-Based Multilayered Spherical Structures. <i>IEEE Nanotechnology Magazine</i> , <b>2019</b> , 18, 1129-1136	2.6	12
122	Design of a wideband terahertz absorber composed of graphene patches. <i>IET Optoelectronics</i> , <b>2019</b> , 13, 235-239	1.5	2
121	Terahertz Detection With a Low-Cost Packaged GaAs High-Electron-Mobility Transistor. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2019</b> , 9, 27-37	3.4	7
120	Design, fabrication, and measurement of a polymer-based anti-reflection coating for improved performance of a solar panel under a specific incident angle. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 189, 175-180	6.4	11
119	Tunable terahertz filter composed of an array of subwavelength metallic ring apertures. <i>Optik</i> , <b>2018</b> , 164, 355-361	2.5	2
118	Continuous Wave Terahertz Sensing Using GaN HEMTs. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1700607	1.6	4
117	Balanced Filter With Wideband Common-Mode Suppression in Groove Gap Waveguide Technology. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2018</b> , 28, 132-134	2.6	13
116	Proposing a non-linear microwave ring resonator for efficient multi-tone generation. <i>IET Microwaves, Antennas and Propagation</i> , <b>2018</b> , 12, 783-788	1.6	1
115	Improved Wireless Power Transfer Efficiency Using Reactively Terminated Resonators. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2018</b> , 17, 803-807	3.8	4
114	Low Phase-Noise Self-Oscillating Cross-Coupled Active Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 4516-4523	4.9	5
113	Microstrip Antenna Array Fed by a Low-Loss Gap-Waveguide Feed Network. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 4359-4363	4.9	5

112	Indirect Determination of Solute Complex Permittivity Using a Highly Accurate Time-Domain Analysis. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 4634-4640	4.1	1	
111	A Grating-Optic-Less Visible Spectrometer Using Fresnel Zone Plate Patterns on a Digital Light Processor. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 6432-6437	4	2	
110	Distributed-element modelling for spiral resonators used in wireless power transfer. <i>International Journal of Circuit Theory and Applications</i> , <b>2018</b> , 46, 313-327	2	3	
109	Improved Fourier Analysis of Periodically Patterned Graphene Sheets Embedded in Multilayered Structures and Its Application to the Design of a Broadband Tunable Wide-Angle Polarizer. <i>IEEE Journal of Quantum Electronics</i> , <b>2017</b> , 53, 1-8	2	2	
108	. IEEE Sensors Journal, <b>2017</b> , 17, 5460-5465	4	2	
107	Design and fabrication of a fiber-optic deep-etched silicon fabry-perot temperature sensor <b>2017</b> ,		2	
106	Experimental investigation on convective heat transfer and hydrodynamic characteristics of magnetite nanofluid under the influence of an alternating magnetic field. <i>International Journal of Thermal Sciences</i> , <b>2016</b> , 99, 113-124	4.1	84	
105	A Hybrid Photonic-Plasmonic Sensing Platform for Differentiating Background and Surface Interactions Using an Array of Metal-Insulator-Metal Resonators. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 1621-10	627	3	
104	Investigation of electric and magnetic coupling between two helical resonators of a wireless power transfer system. <i>Electronics Letters</i> , <b>2016</b> , 52, 312-314	1.1	4	
103	Integrated Optical-Phased Array Nanoantenna System Using a Plasmonic Rotman Lens. <i>Journal of Lightwave Technology</i> , <b>2016</b> , 34, 2118-2126	4	23	
102	Spurious-free analysis of two-dimensional low-loss metallic gratings. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 035001	1.7		
101	Analysis of magnetically biased graphene-based periodic structures using a transmission-line formulation. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2016</b> , 33, 2566	1.7	10	
100	2016,		5	
99	Highly sensitive terahertz dielectric sensor for small-volume liquid samples. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 191105	3.4	17	
98	Continuous spectrum of modes for optical micro-sphere resonators. <i>Optics Communications</i> , <b>2016</b> , 375, 1-8	2	2	
97	Broadband Reflectarray Antenna on a Periodically Perforated Substrate. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 3711-3717	4.9	19	
96	Linear Analysis of Helix Traveling-Wave Tubes With Nonnegligible Space Charge Using the Improved Helical-Harmonics Approximation. <i>IEEE Transactions on Electron Devices</i> , <b>2015</b> , 62, 1024-1031	2.9	1	
95	Coplanar rotman lens and antipodal vivaldi antenna array for L- and S-band applications. <i>Microwave and Optical Technology Letters</i> , <b>2015</b> , 57, 1305-1308	1.2	3	

94	Analytical modeling of the extrusion process using the electrostatics concept. <i>Mechanics of Materials</i> , <b>2015</b> , 88, 87-102	3.3	4
93	Analysis of integrated MIM-based plasmonic devices using a transmission-line formulation. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2015</b> , 32, 1843	1.7	2
92	Analysis of 2-D dielectric-waveguide-coupled optical ring resonators using a transmission-line formulation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2015</b> , 32, 1797-804	1.8	2
91	Highly Directive Hybrid Plasmonic Leaky-Wave Optical Antenna With Controlled Side-Lobe Level. Journal of Lightwave Technology, <b>2015</b> , 33, 4791-4798	4	19
90	3-Coil orientation insensitive wireless power transfer for capsule endoscope <b>2015</b> ,		9
89	Convective heat transfer characteristics of magnetite nanofluid under the influence of constant and alternating magnetic field. <i>Powder Technology</i> , <b>2015</b> , 274, 258-267	5.2	92
88	External Cylindrical Invisibility Cloaks With Small Material Dynamic Range. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 2187-2191	4.9	11
87	Guided Mode Resonance Sensor With Enhanced Surface Sensitivity Using Coupled Cross-Stacked Gratings. <i>IEEE Sensors Journal</i> , <b>2014</b> , 14, 1216-1222	4	20
86	Analysis of Helical Slow-Wave Structures for Modeling Helix Thickness Using an Improved Helical-Harmonics Approximation Part II: Simulation Results. <i>IEEE Transactions on Electron Devices</i> , <b>2014</b> , 61, 172-177	2.9	2
85	Analysis of Helical Slow-Wave Structures for Modeling Helix Thickness Using an Improved Helical-Harmonics Approximation Part I: Theory. <i>IEEE Transactions on Electron Devices</i> , <b>2014</b> , 61, 166-17	l <sup>2.9</sup>	3
84	Design and implementation of compact WPT system using printed spiral resonators. <i>Electronics Letters</i> , <b>2014</b> , 50, 110-111	1.1	29
83	One-dimensional finite-elements method for the analysis of whispering gallery microresonators. Journal of the Optical Society of America A: Optics and Image Science, and Vision, <b>2014</b> , 31, 1614-9	1.8	1
82	Correction of positioning error in Talbot lithography under noncoherent illumination. <i>Journal of Nanophotonics</i> , <b>2014</b> , 8, 084089	1.1	3
81	Modeling of a frequency comb source for terahertz generation <b>2014</b> ,		1
80	Microfluidic terahertz sensor based on an array of parallel-plate resonators 2014,		1
79	Possibility of perfect concealment by lossy conventional and lossy metamaterial cylindrical invisibility cloaks. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 244501	2.5	4
78	SIW cavity-backed slot antennas with improved gain <b>2013</b> ,		3
77	Terahertz Parallel-Plate Ladder Waveguide With Highly Confined Guided Modes. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2013</b> , 3, 87-95	3.4	9

### (2010-2013)

76	Beam splitting using self-collimation phenomenon in photonic crystal. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2013</b> , 30, 3140	1.7	2
75	EIT based tunable metal composite spherical nanoparticles. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , <b>2012</b> , 10, 102-111	2.6	6
74	Phase-Shifter-Less Beam Scanning of a Receive Array Using Spatial LO Distribution. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2012</b> , 26, 653-662	1.3	
73	Plasmonic nanostructures for increasing the efficiency of terahertz large-area photomixers <b>2012</b> ,		1
72	Radiation characteristics of large-area photomixer used for generation of continuous-wave terahertz radiation. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2012</b> , 29, 813	1.7	11
71	Plasmonic grating as a nonlinear converter-coupler. <i>Optics Express</i> , <b>2012</b> , 20, 1392-405	3.3	16
70	Large-area microstructured photomixer as scannable detector of continuous-wave terahertz radiation. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2012</b> , 29, 3254	1.7	1
69	Nanoscale all-optical plasmonic switching using electromagnetically induced transparency. <i>Applied Optics</i> , <b>2012</b> , 51, 5019-27	1.7	8
68	Analysis of plasmon propagation along a chain of metal nanospheres using the generalized multipole technique. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2011</b> , 28, 937	1.7	24
67	Conditions of maximum efficiency for wireless power transfer between two helical wires. <i>IET Microwaves, Antennas and Propagation</i> , <b>2011</b> , 5, 545	1.6	11
66	Analysis of Multipactor RF Breakdown Thresholds in Elliptical Waveguides. <i>IEEE Transactions on Electron Devices</i> , <b>2011</b> , 58, 876-881	2.9	13
65	Analysis of multi-layer optical waveguides using a pseudospectral technique. <i>Journal of Optics</i> (United Kingdom), <b>2011</b> , 13, 125703	1.7	1
64	Higher-order soliton-effect pulse compression in a nonlinear left-handed transmission line. <i>AEU</i> - <i>International Journal of Electronics and Communications</i> , <b>2011</b> , 65, 848-851	2.8	2
63	MODAL ANALYSIS OF MULTILAYER CONICAL DIELECTRIC WAVEGUIDES FOR AZIMUTHAL INVARIANT MODES. <i>Progress in Electromagnetics Research</i> , <b>2010</b> , 105, 213-229	3.8	4
62	Plane-wave diffraction by periodic structures with artificial anisotropic dielectrics. <i>Journal of Optics</i> (United Kingdom), <b>2010</b> , 12, 055102	1.7	3
61	Thin Wideband Radar Absorbers. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 4051-4058	4.9	70
60	Spoof surface plasmons propagating along a periodically corrugated coaxial waveguide. <i>Journal Physics D: Applied Physics</i> , <b>2010</b> , 43, 135302	3	28
59	Application of the generalized multipole technique to the analysis of a ladder parallel-plate waveguide for terahertz guided-wave applications. <i>Journal of the Optical Society of America B:</i> Optical Physics, <b>2010</b> , 27, 2061	1.7	5

58	All-optical wavelength converter based on a heterogeneously integrated GaP on a silicon-on-insulator waveguide. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2010</b> , 27, 22	73 <sup>1.7</sup>	11
57	Miniaturization of Circular Patch Antennas Using MNG Metamaterials. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2010</b> , 9, 1194-1196	3.8	30
56	Analysis of Frequency Selective Surfaces on Periodic Substrates Using Entire Domain Basis Functions. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 876-886	4.9	7
55	Full-wave analysis of photonic-crystal structures with multi quantum well active region. <i>Optics Communications</i> , <b>2010</b> , 283, 3747-3754	2	
54	Wideband substrate integrated waveguide power splitter with high isolation. <i>IET Microwaves, Antennas and Propagation</i> , <b>2010</b> , 4, 817	1.6	19
53	Substrate-integrated waveguide circuit analysis and optimisation. <i>IET Microwaves, Antennas and Propagation</i> , <b>2010</b> , 4, 2115	1.6	1
52	Loss Measurement of Aluminum Thin-Film Coplanar Waveguide (CPW) Lines at Microwave Frequencies. <i>IEEE Transactions on Electron Devices</i> , <b>2010</b> , 57, 2037-2040	2.9	5
51	Large Overlapping Subdomain Method of Moments for the Analysis of Frequency Selective Surfaces. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 2175-2187	4.1	3
50	Numerical Multimode Thru-Line (TL) Calibration Technique for Substrate Integrated Waveguide Circuits. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2009</b> , 23, 1785-1793	1.3	14
49	Reduction of the staircasing error in the single-domain pseudospectral frequency-domain method for analysis of photonic crystals. <i>Journal of Optics</i> , <b>2009</b> , 11, 065101		
48	High frequency integrated feed for front end circuitry and antenna arrays. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2009</b> , 19, 380-388	1.5	5
47	Wide-band low-loss CPW-based composite right/left-handed transmission line. <i>Microwave and Optical Technology Letters</i> , <b>2009</b> , 51, 1388-1390	1.2	
46	Substrate-integrated-waveguide feed network for microstrip antenna arrays. <i>Microwave and Optical Technology Letters</i> , <b>2009</b> , 51, 1619-1621	1.2	1
45	BRIGHT AND DARK SOLITON GENERATION IN A LEFT-HANDED NONLINEAR TRANSMISSION LINE WITH SERIES NONLINEAR CAPACITORS. <i>Progress in Electromagnetics Research</i> , <b>2009</b> , 96, 237-249	3.8	26
44	Via-Free CPW-Based Composite Right/Left-Handed Transmission Line and a Calibration Approach to Determine Its Propagation Constant. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2008</b> , 22, 1599-1606	1.3	9
43	ParallelEeries feed network with improved G/T performance for high-gain microstrip antenna arrays. <i>Electronics Letters</i> , <b>2008</b> , 44, 180	1.1	15
42	Design of a Single-Feed Dual-Band Dual-Polarized Printed Microstrip Antenna Using a Boolean Particle Swarm Optimization. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2008</b> , 56, 1845-1852	4.9	64
41	Plasmonic ring resonator. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2008</b> , 25, 2116	1.7	24

#### (2006-2008)

40	Coupling of free space sub-terahertz waves into dielectric slabs using PC waveguides. <i>Optics Express</i> , <b>2008</b> , 16, 6112-8	3.3	2
39	X-Band Substrate Integrated Waveguide Amplifier. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2008</b> , 18, 815-817	2.6	41
38	Symmetry reduction for maximization of higher-order stop-bands in two-dimensional photonic crystals. <i>Journal of Modern Optics</i> , <b>2008</b> , 55, 2971-2980	1.1	5
37	Achieving large higher-order stop-bands in two-dimensional photonic crystals using a real-valued genetic algorithm. <i>Journal of Optics</i> , <b>2008</b> , 10, 085203		4
36	Investigation of the effect of conductor loss and mismatch on the tunneling through frequency selective surfaces <b>2008</b> ,		1
35	MODAL ANALYSIS OF EXTRAORDINARY TRANSMISSION THROUGH AN ARRAY OF SUBWAVELENGTH SLITS. <i>Progress in Electromagnetics Research</i> , <b>2008</b> , 79, 59-74	3.8	13
34	Sub-terahertz on Bff switch based on a two-dimensional photonic crystal infiltrated by liquid crystals. <i>Optics Communications</i> , <b>2008</b> , 281, 4623-4625	2	66
33	Prediction and verification of negative refraction in a two-dimensional photonic crystal slab using a rigorous semi-analytical approach. <i>Journal of Modern Optics</i> , <b>2007</b> , 54, 1793-1802	1.1	1
32	APPLICATION OF GENERALIZED MULTIPOLE TECHNIQUE TO THE ANALYSIS OF DISCONTINUITIES IN SUBSTRATE INTEGRATED WAVEGUIDES. <i>Progress in Electromagnetics Research</i> , <b>2007</b> , 69, 227-235	3.8	23
31	USING PHOTON WAVE FUNCTION FOR THE TIME-DOMAIN ANALYSIS OF ELECTROMAGNETIC WAVE SCATTERING. <i>Progress in Electromagnetics Research</i> , <b>2007</b> , 76, 397-412	3.8	4
30	Diffraction Analysis of Periodic Structures Using a Transmission-Line Formulation: Principles and Applications. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2007</b> , 4, 649-666	0.3	10
29	Multiple-scale analysis of optical bistability in semiconductor periodic structures. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2007</b> , 24, 887	1.7	
28	Diffraction analysis of photonic metamaterials using a transmission line formulation 2007,		1
27	Low-Radiation-Loss Waveguide-to-Microstrip Transition Using a Double Slit Configuration for Microstrip Array Feeding <b>2007</b> ,		1
26	Wideband Planar Log-Periodic Antenna <b>2007</b> ,		11
25	Hybrid Ku-band low-noise amplifier for mobile DBS active phased-array antennas. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2006</b> , 16, 573-583	1.5	1
24	Reduction of dielectric losses in substrate integrated waveguide. <i>Electronics Letters</i> , <b>2006</b> , 42, 1230	1.1	29
23	Modeling of the correlation coefficients of a receive antenna array in a MIMO multipath channel <b>2006</b> ,		4

22	Design, simulation, and optimization of an on-chip bow-tie slot antenna using genetic algorithm <b>2006</b> ,		2
21	Full-wave analysis of lossy anisotropic optical waveguides using a transmission line approach based on a Fourier method. <i>Journal of Optics</i> , <b>2006</b> , 8, 1080-1087		10
20	Modal analysis of multilayer planar lossy anisotropic optical waveguides. Journal of Optics, 2006, 8, 856	5-863	7
19	High SNR flexible top hat monopole probe for 1.5 T MRI. <i>Measurement Science and Technology</i> , <b>2006</b> , 17, 1987-1994	2	1
18	ANALYSIS OF A LOSSY MICRORING USING THE GENERALIZED MULTIPOLE TECHNIQUE. <i>Progress in Electromagnetics Research</i> , <b>2006</b> , 66, 287-299	3.8	8
17	MULTIPLE-SCALE ANALYSIS OF PLANE WAVE REFRACTION AT A DIELECTRIC SLAB WITH KERR-TYPE NONLINEARITY. <i>Progress in Electromagnetics Research</i> , <b>2006</b> , 56, 81-92	3.8	4
16	Low-cost, high-efficiency quasi-planar array of waveguide-fed circularly polarized microstrip antennas. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2005</b> , 53, 2036-2043	4.9	42
15	Perturbation analysis of plane-wave transmission through a dielectric slab with Kerr-type nonlinearity. <i>Optics Express</i> , <b>2005</b> , 13, 6587-96	3.3	1
14	FULL-WAVE ANALYSIS OF COUPLED WAVEGUIDES IN A TWO-DIMENSIONAL PHOTONIC CRYSTAL. <i>Progress in Electromagnetics Research</i> , <b>2004</b> , 49, 291-307	3.8	6
13	A Novel open-ended intravascular MRI loop probe. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2004</b> , 2004, 1148-50		
12	Transmission line formulation for the full-wave analysis of two-dimensional dielectric photonic crystals. <i>IET Science, Measurement and Technology</i> , <b>2004</b> , 151, 327-334		37
11	G/T of multi-segment active arrays - dependence on array configuration <b>2004</b> ,		3
10	Application of equal-weight orthogonal signalling to non-directed wireless infrared CDMA networks. <i>Electronics Letters</i> , <b>2002</b> , 38, 804	1.1	0
9	A Rigorous Two-Dimensional Field Analysis of Dfb Structures - Abstract. <i>Journal of Electromagnetic Waves and Applications</i> , <b>1999</b> , 13, 897-898	1.3	
8	Millimeter-wave holographic power splitting/combining. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1997</b> , 45, 2316-2323	4.1	18
7	Design, simulation, and fabrication of a novel multi-band miniaturized antenna for wireless communication applications		2
6	Effect of dielectric losses on the propagation characteristics of the substrate integrated waveguide		1
5	A Novel 2D Genetic Algorithm for Band Gap Optimization of Two-Dimensional Photonic Crystals		2

#### LIST OF PUBLICATIONS

4	Boolean Particle Swarm Optimization and Its Application to the Design of a Dual-Band Dual-Polarized Planar Antenna	32
3	A simple method for analyzing a 2-D photonic crystal waveguide	1
2	A 65 GHz holographic power combiner	3
1		2