

Pedram Mousavi

List of Publications by Year in descending order

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138
times ranked

2069
citing authors

#	ARTICLE	IF	CITATIONS
1	Wideband L-Shaped Circular Polarized Monopole Slot Antenna. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 822-825.	2.4	90
2	A 28-GHz Quadrature Fractional-N Frequency Synthesizer for 5G Transceivers With Less Than 100-fs Jitter Based on Cascaded PLL Architecture. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 396-413.	2.9	77
3	Investigation of Wideband Substrate-Integrated Vertically-Polarized Electric Dipole Antenna and Arrays for mm-Wave 5G Mobile Devices. IEEE Access, 2018, 6, 2145-2157.	2.6	71
4	Generalized Theory and Design Methodology of Wideband Doherty Amplifiers Applied to the Realization of an Octave-Bandwidth Prototype. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 3014-3023.	2.9	64
5	Beam-Steering SIW Leaky-Wave Subarray With Flat-Topped Footprint for 5G Applications. IEEE Transactions on Antennas and Propagation, 2017, 65, 1108-1120.	3.1	50
6	Theoretical Design of Broadband Multisection Wilkinson Power Dividers With Arbitrary Power Split Ratio. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 605-612.	1.4	49
7	A Dual-Band High-Gain Resonant Cavity Antenna With Orthogonal Polarizations. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 1220-1223.	2.4	46
8	MEMS-Tunable Half Phase Gradient Partially Reflective Surface for Beam-Shaping. IEEE Transactions on Antennas and Propagation, 2015, 63, 369-373.	3.1	46
9	Low-Profile Integrated Microstrip Antenna for GPS-DSRC Application. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 44-48.	2.4	45
10	High-Resolution Balanced Microwave Material Sensor With Extended Dielectric Range. IEEE Transactions on Industrial Electronics, 2017, 64, 1552-1560.	5.2	43
11	Investigation on electrical and mechanical properties of 3D printed nylon 6 for RF/microwave electronics applications. Additive Manufacturing, 2018, 21, 69-75.	1.7	42
12	A Dual-Band Low-Profile Aperture Antenna With Substrate-Integrated Waveguide Grooves. IEEE Transactions on Antennas and Propagation, 2016, 64, 1561-1566.	3.1	39
13	Imaging of Oil-Well Perforations Using UWB Synthetic Aperture Radar. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4510-4520.	2.7	38
14	Investigation of Epidermal Loop Antennas for Biotelemetry IoT Applications. IEEE Access, 2018, 6, 15806-15815.	2.6	34
15	A New Aperture Antenna Using Substrate Integrated Waveguide Corrugated Structures for 5G Applications. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 254-257.	2.4	33
16	Four-Way Filtering Power Divider Using SIW and Eighth-Mode SIW Cavities With Ultrawide Out-of-Band Rejection. IEEE Microwave and Wireless Components Letters, 2019, 29, 586-588.	2.0	32
17	Sensor Antenna Transmitter System for Material Detection in Wireless-Sensor-Node Applications. IEEE Sensors Journal, 2018, 18, 8812-8819.	2.4	31
18	A highly deformable conducting traces for printed antennas and interconnects: silver/fluoropolymer composite amalgamated by triethanolamine. Flexible and Printed Electronics, 2017, 2, 045001.	1.5	30

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19	Integrated interconnect networks for RF switch matrix applications. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 12-21.	2.9	29
20	The Effects of Imbalanced Phase Shifters Loss on Phased Array Gain. IEEE Antennas and Wireless Propagation Letters, 2008, 7, 192-196.	2.4	29
21	ANN-based design of a versatile millimetre-wave slotted patch multi-antenna configuration for 5G scenarios. IET Microwaves, Antennas and Propagation, 2017, 11, 1288-1295.	0.7	29
22	Self-reinforcing graphene coatings on 3D printed elastomers for flexible radio frequency antennas and strain sensors. Flexible and Printed Electronics, 2017, 2, 035001.	1.5	29
23	Active Stabilization of Vehicle-Mounted Phased-Array Antennas. IEEE Transactions on Vehicular Technology, 2009, 58, 2638-2650.	3.9	28
24	A GNSS Antenna With a Polarization Selective Surface for the Mitigation of Low-Angle Multipath Interference. IEEE Transactions on Antennas and Propagation, 2015, 63, 5287-5295.	3.1	27
25	Direct-Conversion Sensor for Wireless Sensing Networks. IEEE Transactions on Industrial Electronics, 2017, 64, 9675-9682.	5.2	27
26	A Compact Substrate Integrated Waveguide Notched-Septum Polarizer for 5G Mobile Devices. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2517-2521.	2.4	27
27	High-Resolution Dielectric Sensor Based on Injection-Locked Oscillators. IEEE Sensors Journal, 2018, 18, 141-148.	2.4	26
28	Wideband Two-Section Impedance Transformer With Flat Real-to-Real Impedance Matching. IEEE Microwave and Wireless Components Letters, 2016, 26, 313-315.	2.0	25
29	Antenna-Filter-Antenna-Based Transmit-Array for Circular Polarization Application. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1389-1392.	2.4	25
30	Application of Invasive Weed Optimization to Design a Broadband Patch Antenna With Symmetric Radiation Pattern. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 1369-1372.	2.4	24
31	Gecko-Gaskets for Multilayer, Complex, and Stretchable Liquid Metal Microwave Circuits and Antennas. Advanced Materials Technologies, 2017, 2, 1700144.	3.0	24
32	Single-layer partially reflective surface for an orthogonally-polarised dual-band high-gain resonant cavity antenna. IET Microwaves, Antennas and Propagation, 2013, 7, 656-662.	0.7	23
33	Numerical and Experimental Assessment of Source Reconstruction for Very Near-Field Measurements With an Array of H -Field Probes. IEEE Transactions on Antennas and Propagation, 2018, 66, 1311-1320.	3.1	23
34	Investigation of the 3D Printing Roughness Effect on the Performance of a Dielectric Rod Antenna. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2075-2079.	2.4	23
35	A Three-Port Zero-Power RFID Sensor Architecture for IoT Applications. IEEE Access, 2020, 8, 66888-66897.	2.6	23
36	Bidirectional Same-Sense Circularly Polarized Slot Antenna Using Polarization Converting Surface. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1652-1655.	2.4	22

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37	A High-Gain Planar Surface Plasmon Wave Antenna Based on Substrate Integrated Waveguide Technology With Size Reduction. IEEE Transactions on Antennas and Propagation, 2018, 66, 2605-2609.	3.1	22
38	Class of miniaturised/arbitrary power division ratio couplers with improved design flexibility. IET Microwaves, Antennas and Propagation, 2015, 9, 1066-1073.	0.7	21
39	Calibrated Layer-Stripping Technique for Level and Permittivity Measurement With UWB Radar in Metallic Tanks. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2322-2334.	2.9	21
40	Two-Layered Substrate Integrated Waveguide Filter for UWB Applications. IEEE Microwave and Wireless Components Letters, 2017, 27, 633-635.	2.0	21
41	A 60-GHz Transmission Line Phase Shifter Using Varactors and Tunable Inductors in 65-nm CMOS Technology. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 2073-2084.	2.1	20
42	Fixed-Frequency Low-Loss Dielectric Material Sensing Transmitter. IEEE Transactions on Industrial Electronics, 2021, 68, 3517-3526.	5.2	20
43	Wideband and circularly polarised slot antenna by using artificial transmission line. IET Microwaves, Antennas and Propagation, 2017, 11, 672-679.	0.7	19
44	A ZERO-Power Sensor Using Multi-Port Direct-Conversion Sensing. IEEE Sensors Journal, 2018, 18, 9243-9250.	2.4	19
45	Wideband Printed TM ₀₁ to TE ₁₁ Mode Converters. IEEE Access, 2019, 7, 35438-35448.	2.6	19
46	Wideband High-Gain Circularly Polarized Resonant Cavity Antenna With a Thin Complementary Partially Reflective Surface. IEEE Transactions on Antennas and Propagation, 2021, 69, 532-537.	3.1	19
47	1K Element Antenna System for Mobile Direct Broadcasting Satellite Reception. IEEE Transactions on Broadcasting, 2010, 56, 340-349.	2.5	18
48	Application of novel integrated dielectric and conductive ink 3D printing technique for fabrication of conical spiral antennas. , 2013, , .		17
49	A passive non-contact microwave loop resonance sensor for liquid interface. Sensors and Actuators B: Chemical, 2017, 241, 96-98.	4.0	17
50	A Batteryless RFID Sensor Architecture With Distance Ambiguity Resolution for Smart Home IoT Applications. IEEE Internet of Things Journal, 2022, 9, 2960-2972.	5.5	17
51	Microfluidic liquid metal based mechanically reconfigurable antenna using reversible gecko adhesive based bonding. , 2016, , .		16
52	Numerical Study on a Wideband Plasma Folded-Dipole Antenna. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1253-1256.	2.4	16
53	An Unpowered Sensor Node for Real-Time Water Quality Assessment (Humic Acid Detection). Electronics (Switzerland), 2018, 7, 231.	1.8	16
54	Low-Cost Inkjet Printed Passive Booster for Increasing the Magnetic Coupling in Proximity of Metal Object for NFC Systems. IEEE Microwave and Wireless Components Letters, 2016, 26, 996-998.	2.0	15

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55	Generalized design of continuous-mode second harmonic tuned amplifiers. Microwave and Optical Technology Letters, 2016, 58, 2787-2789.	0.9	13
56	Dual-band circularly polarized transmit-array unit-cell at X and K bands. , 2016, , .		13
57	Detection of the Defective Vias in SIW Circuits From Single/Array Probe(s) Data Using Source Reconstruction Method and Machine Learning. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3757-3770.	2.9	13
58	An Adaptive Data Acquisition and Clustering Technique to Enhance the Speed of Spherical Near-Field Antenna Measurements. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2325-2329.	2.4	13
59	Stray Capacitance Between Magnetic Resonance Imaging Coil Elements: Models and Application to Array Decoupling. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 4667-4677.	2.9	12
60	Microstrip-Fed 3-D Folded Slot Antenna on Cubic Structure. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1081-1084.	2.4	12
61	Evaluation of One-Stage 3-D Printed Frequency Selective Surface Using Carbon-Fiber-Reinforced Thermoplastic Composite. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 2298-2304.	1.4	12
62	Optimum Design of a Beam-Forming Array of S-Shaped DRA Elements With a Superstrate on an SIW Feed for 5G Mobile Systems. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1410-1414.	2.4	12
63	A Highly Miniaturized and Inherently Conjugately Matched Folded Dipole-Based RFID Tag Antenna. IEEE Access, 2019, 7, 101658-101664.	2.6	11
64	Miniaturized-Element Frequency Selective Surface Metamaterials: A Solution to Enhance Radiation of RFICs. IEEE Transactions on Antennas and Propagation, 2020, 68, 1962-1972.	3.1	11
65	Circularly-polarised end-fire antenna and arrays for 5G millimetre-wave beam-steering systems. IET Microwaves, Antennas and Propagation, 2020, 14, 980-987.	0.7	11
66	Hybrid Beamforming for mmWave Massive MIMO Systems Employing DFT-Assisted User Clustering. IEEE Transactions on Vehicular Technology, 2020, 69, 11646-11658.	3.9	11
67	Switchable dual/triple-band circularly polarised slot antenna by using artificial transmission line. IET Microwaves, Antennas and Propagation, 2017, 11, 1734-1741.	0.7	10
68	Wideband and Ultrawideband Phase Shifter Designs Based on Low-Pass/Bandpass/High-Pass Networks. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 1056-1065.	1.4	10
69	A 100-MS/s 5-GS/s, 13-bit Nyquist-Rate Reconfigurable Time-Domain ADC. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 1967-1979.	2.1	10
70	Far-Field-Based Nonlinear Optimization of Millimeter-Wave Active Antenna for 5G Services. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 2985-2997.	2.9	10
71	A 79dB SNDR, 10MHz BW, 675MS/s open-loop time-based ADC employing a 1.15ps SAR-TDC. , 2016, , .		9
72	Dual-band high-gain resonant cavity antenna with orthogonal polarisation using slotted patch partially reflective superstrate. Electronics Letters, 2012, 48, 897.	0.5	8

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73	N-ZERO direct conversion wireless sensor based on six-port structures. , 2017, , .		8
74	RWG MoM via locally corrected Nyström method in near-field to far-field transformation using very near-field measurement. IET Microwaves, Antennas and Propagation, 2018, 12, 145-153.	0.7	8
75	Design and Fabrication of Nonplanar Yagi-Uda Antennas Based on a Partially Conductive Filling Method. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2439-2443.	2.4	8
76	Estimation of Plasma and Collision Frequencies Using Modified Microwave Interferometry Methods For Plasma Antenna Applications. IEEE Transactions on Plasma Science, 2019, 47, 451-456.	0.6	8
77	Compact beam-reconfigurable feed for large aperture antennas. IET Microwaves, Antennas and Propagation, 2016, 10, 1159-1166.	0.7	7
78	Impedance matching network for ground eliminated open-ended resonant coil structure in distributed wireless power transmission systems. IET Science, Measurement and Technology, 2017, 11, 856-860.	0.9	7
79	Dual-Band Open-Ended Waveguide Feeder Antennas With Collinear Feed Design. IEEE Transactions on Antennas and Propagation, 2018, 66, 6358-6363.	3.1	7
80	Application of UWB Arrays for Material Identification of Multilayer Media in Metallic Tanks. IEEE Transactions on Antennas and Propagation, 2015, 63, 4901-4909.	3.1	6
81	RF channel modelling and multi-hop routing for wireless sensor networks located on oil rigs. IET Wireless Sensor Systems, 2016, 6, 173-179.	1.3	6
82	Hybrid beamforming and DFT-based channel estimation for millimeter wave MIMO systems. , 2017, , .		6
83	A novel investigation on printed stretchable WLAN antennas. , 2017, , .		6
84	A novel booster antenna on flexible substrates for metal proximity NFC applications. , 2015, , .		5
85	An efficient power recycling method for multi-port receivers. , 2016, , .		5
86	Contactless Power Transfer Using Capacitive Resonant Single-Conductor Structure. , 2018, , .		5
87	Fence Shaping of Substrate Integrated Fan-Beam Electric Dipole for High-Band 5G. Electronics (Switzerland), 2019, 8, 545.	1.8	5
88	Monolithic-Integrated MEMS-Tunable Reflective Cell for Ku-Band Mobile Satellite Two-Way Connectivity. IEEE Transactions on Antennas and Propagation, 2015, 63, 1384-1392.	3.1	4
89	Dual band/ Dual Mode Branch-Line/Rat-Race Coupler Using Artificial Transmission Line. , 2019, , .		4
90	Dual-Band High-Gain Planar Corrugated Antennas With Integrated Feeding Structure. IEEE Access, 2020, 8, 67075-67084.	2.6	4

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91	An Adaptive Data Acquisition Technique to Enhance the Speed of Near-Field Antenna Measurement. IEEE Transactions on Antennas and Propagation, 2022, 70, 5873-5883.	3.1	4
92	Orthogonally-polarized dual-band MEMS-tunable double-slotted unit cell for reflectarray applications. , 2012, , .		3
93	Dual-band MEMS-tunable slotted-cross reflective unit cell with orthogonal polarization. , 2012, , .		3
94	Comparison of high-density composite and surface coil arrays for MRI of spherical imaging volumes. , 2014, , .		3
95	3D folded cubical slot antenna. , 2014, , .		3
96	Analysis of radiation of antennas with a phase-gradient partially reflective surface. IET Microwaves, Antennas and Propagation, 2015, 9, 1323-1330.	0.7	3
97	Design of wideband phase shifters with low phase error using parallel inductor and capacitor for wideband antenna applications. Journal of Electromagnetic Waves and Applications, 2017, 31, 716-726.	1.0	3
98	Development of Embedded Redistribution Layer-Based Silicon Interposer for 3-D Integration. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 399-409.	1.4	3
99	A Substrate-Integrated Fan-Beam Dipole Antenna with Varied Fence Shape for mm-Wave 5G Wireless. , 2018, , .		3
100	Capacitive Power Transfer based on Compensation Circuit for Class E Resonant Full-Wave Rectifier. , 2018, , .		3
101	Fast and Accurate Near-Field to Far-Field Transformation Using an Adaptive Sampling Algorithm and Machine Learning. , 2019, , .		3
102	Gradient and Huygens's™ Metasurface Design and Analysis Based on Transmission Line Theory. IEEE Transactions on Antennas and Propagation, 2020, 68, 6752-6763.	3.1	3
103	First-Order Correction and Equivalent Source Reconstruction Assessment for Practical Multiplane Magnetic Near-Field Measurements. IEEE Transactions on Antennas and Propagation, 2020, 68, 6479-6482.	3.1	3
104	Three-Port Zero-Power RFID Flood Sensor for IoT Applications. , 2020, , .		3
105	Parasitic capacitance in MRI coil arrays: Models and application to array decoupling. , 2013, , .		2
106	Non-resonant element frequency selective surface with the application in the near-field of the antenna for the axial ratio improvement. , 2014, , .		2
107	K-band circularly-polarized reconfigurable transmit-array unit-cell. , 2015, , .		2
108	Tunable open ended planar spiral coil for wireless power transmission. , 2015, , .		2

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109	Improved 60GHz loaded-line phase shifter using tunable inductor. , 2016, , .		2
110	A side-fed spiral antenna for near-field coupler applications. AEU - International Journal of Electronics and Communications, 2016, 70, 1172-1178.	1.7	2
111	Mechanically tunable periodic electromagnetic surface using stretchable polymer. , 2016, , .		2
112	Vacuum-Assisted Through Silicon via Filling Method With Ag-Based Epoxy. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 1475-1481.	1.4	2
113	Linear-linear basis functions for source reconstruction using magnetic-field integral equations in very-near-field measurements. , 2017, , .		2
114	Conductive Polymer Metallized Vias: A New Approach for Substrate Integrated Waveguide Development. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 1111-1118.	1.4	2
115	Design and Analysis of Corrugated Antennas Based on Surface Susceptance of a Single Cell of Corrugation. IEEE Transactions on Antennas and Propagation, 2020, 68, 5218-5227.	3.1	2
116	Broadband array antenna design by coupling technique using 180 degree phase shifter. , 2015, , .		1
117	A multi-band-reconfigurable antenna using split-ring resonators. , 2015, , .		1
118	Low-cost miniaturized open-ended slot-based UHF RFID tag for harsh environment. , 2016, , .		1
119	Beam-steering slotted leaky wave antenna with flexible control of azimuth pattern. , 2016, , .		1
120	Pattern reconfigurable multimode square waveguide slot antenna. , 2016, , .		1
121	Locally corrected Nyström technique and its relationship with RWG method of moment for current reconstruction using very-near-field measurements. , 2017, , .		1
122	Overview of Single Conductor Power Transfer With Open-Ended Helical Resonators. , 2018, , .		1
123	Performance analysis of silicon-based frequency reconfigurable monopole. Microsystem Technologies, 2019, 25, 4373-4377.	1.2	1
124	A Wideband CP Resonant Cavity Antenna with a Self-Complimentary Partially Reflective Surface. , 2020, , .		1
125	Reflectarray antenna as a feed syetem for parallel plate waveguide slot array. , 2012, , .		0
126	Bidirectional RHCP monopole slot antenna using Jerusalem-FSS polarization converter. , 2013, , .		0

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127	Novel 4 states variable UWB phase shifter. , 2013, , .		0
128	Design of 0.3–6GHz spiral antenna coupler. , 2014, , .		0
129	A novel terrestrial local positioning technique using transmitting multi-frequency antenna array. , 2014, , .		0
130	Stability and dispersion analysis of FDTD technique in sinusoidally stratified media. , 2014, , .		0
131	CPW-fed 3D cubic folded annular slot antenna. , 2015, , .		0
132	A Novel Self-Localization Technique for Wireless Receivers Using Transmitting Multifrequency Antenna Array. Canadian Journal of Electrical and Computer Engineering, 2015, 38, 287-293.	1.5	0
133	RFIC measurement and off-chip antenna excitation through proximity coupling at 60GHz. , 2015, , .		0
134	A High- Resolution Approach to Extract the the Emissions from a Circuit Board Using the Magnitude-Only Near-Field Measurement. , 2018, , .		0
135	A Low-Profile Bullâ€™s-eye Antennas for Dual-Band Applications. , 2019, , .		0
136	Singularity Extraction of Electric -Field Integral Equations in Spherical Near-Field Antenna Measurement. , 2020, , .		0
137	Characterization of a resonant capacitively coupled wireless power transfer system for communication purposes at 6 MHz. IET Science, Measurement and Technology, 2021, 15, 241-248.	0.9	0
138	A Three-Port Zero-Power RFID Wireless Sensor for IoT Applications. , 2020, , .		0