

Nader Behdad

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.

167
papers

4,871
citations

36
h-index

65
g-index

215
ext. papers

6,139
ext. citations

3.6
avg, IF

6.39
L-index

#	Paper	IF	Citations
167	Wideband, Beam-Steerable Reflectarray Antennas Exploiting Electronically Reconfigurable Polarization-Rotating Phase Shifters. <i>IEEE Transactions on Antennas and Propagation</i> , 2022 , 1-1	4.9	3
166	Experimental Verification of Multipactor Suppression in Microstripline Using High Porosity Surfaces. <i>IEEE Transactions on Plasma Science</i> , 2022 , 50, 43-49	1.3	0
165	A Low-Profile, Risley-Prism-Based, Beam-Steerable Antenna Employing a Single Flat Prism. <i>IEEE Transactions on Antennas and Propagation</i> , 2022 , 1-1	4.9	1
164	Active, Ultra-Wideband, Electrically-Small Antennas for High-Power Transmission in the HF Band. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	1
163	Minimally Invasive Microwave Ablation Antennas 2021 , 345-398		
162	Feasibility Study of Microsecond Pulsed Microwave Ablation Using a Minimally Invasive Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021 , 20, 627-631	3.8	2
161	Ex Vivo Performance of a Flexible Microwave Ablation Antenna. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1680-1689	5	4
160	A Heuristic Study of the Bandwidth Potential of Electrically Small, Platform-Based Antennas at the HF Band. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 623-635	4.9	1
159	A Wideband Millimeter-Wave Rotman Lens Multibeam Array Using Substrate Integrated Coaxial Line (SICL) Technology. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	2
158	Mechanically Reconfigurable, Beam-Scanning Reflectarray and Transmitarray Antennas: A Review. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6890	2.6	7
157	A Multibeam Tapered Cylindrical Luneburg Lens. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 5060-5065	4.9	5
156	Platform-Based, Electrically-Small HF Antenna With Switchable Directional Radiation Patterns. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 4370-4379	4.9	3
155	Ultrawideband, high-power, microstripline test setup for experimental study and characterization of multipactor. <i>Review of Scientific Instruments</i> , 2021 , 92, 084706	1.7	4
154	Effective-Medium Modeling of a Meanderline Metamaterial-Enhanced Resistive Wall Amplifier Circuit for Particle-in-Cell Simulations. <i>IEEE Transactions on Plasma Science</i> , 2021 , 49, 2700-2708	1.3	
153	A Dual-Band, Polarization-Rotating Reflectarray With Independent Phase Control at Each Band. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 5546-5558	4.9	3
152	Performance-Enhancement of Platform-Based, HF Direction-Finding Systems Using Dynamic Mode Selection. <i>IEEE Open Journal of Antennas and Propagation</i> , 2021 , 2, 793-806	1.9	3
151	A Spatially-Confined, Platform-Based HF Direction Finding Array. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	

150	A Decoupling and Matching Network Design for Single- and Dual-Band Two-Element Antenna Arrays. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 3986-3999	4.1	35
149	. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 5052-5060	4.9	11
148	Electrically Small Platform-Based Antennas for an Unmanned Ground Vehicle. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 5189-5198	4.9	4
147	Narrowband, infrared absorbing metasurface using polystyrene thin films. <i>Journal of Applied Physics</i> , 2020 , 127, 074504	2.5	1
146	2-Bit Phase Quantization Using Mixed Polarization-Rotation/Non-Polarization- Rotation Reflection Modes for Beam-Steerable Reflectarrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 7937-7946	4.9	6
145	Wide Dynamic Range, Angle-Sensing, Long-Wave Infrared Detector Using Nano-Antenna Arrays. <i>Scientific Reports</i> , 2020 , 10, 2488	4.9	4
144	Design of Dual-Polarized, Platform-Based HF Antennas Using the Characteristic Mode Theory. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 5130-5141	4.9	6
143	An Analytic Synthesis Method for Two-Element Biomimetic Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 2797-2809	4.9	4
142	Remembering Prof. Mojgan Daneshmand and Prof. Pedram Mousavi [In Memoriam]. <i>IEEE Antennas and Propagation Magazine</i> , 2020 , 62, 124-125	1.7	2
141	X-band, mechanically-beam-steerable lens antenna exploiting the Risley prism concept. <i>IET Microwaves, Antennas and Propagation</i> , 2020 , 14, 1902-1908	1.6	6
140	Rapid development of application-specific flexible MRI receive coils. <i>Physics in Medicine and Biology</i> , 2020 , 65, 19NT01	3.8	5
139	Broadband, Small-Aperture Direction-Finding Array With Azimuth and Elevation Estimation Capability. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 3163-3175	4.9	3
138	Wideband Transmitarrays Based on Polarization- Rotating Miniaturized-Element Frequency Selective Surfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 2128-2137	4.9	14
137	Calculating multipactor susceptibility chart using a semi-analytic approach with improved accuracy. <i>Physics of Plasmas</i> , 2020 , 27, 113510	2.1	2
136	A Concurrently Dual-Polarized, Simultaneous Transmit and Receive (STAR) Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 5935-5944	4.9	11
135	Design Method for Low-Profile, Harmonic-Suppressed Filter-Antennas Using Miniaturized-Element Frequency Selective Surfaces. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 427-431	3.8	10
134	Wideband, Beam-Steerable Reflectarrays Based on Minimum-Switch Topology, Polarization-Rotating Unit Cells. <i>IEEE Access</i> , 2019 , 7, 36568-36578	3.5	10
133	Subject-Specific, Non-Invasive Helmet-Restraint RF Coil for Awake, Non-Human Primate MR Imaging. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2019 , 3, 177-183	2.8	3

132	A Compact, Low-Profile Simultaneous Transmit and Receive Antenna With Monopole-Like Radiation Characteristics. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 611-615	3.8	16
131	The Performance of Higher Frequency Microwave Ablation in the Presence of Perfusion. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 257-262	5	10
130	Earth-Effect Emulation Using Periodic Structures in Scaled-Model Characterization of HF Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 2731-2735	3.8	2
129	Metamaterial-Inspired Vacuum Electron Devices and Accelerators. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 207-218	2.9	23
128	Design of Platform-Based HF Direction-Finding Antennas Using the Characteristic Mode Theory. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 1417-1427	4.9	15
127	A Wideband, Single-Layer Reflectarray Exploiting a Polarization Rotating Unit Cell. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 872-883	4.9	20
126	Dielectric properties of 3D-printed materials for anatomy specific 3D-printed MRI coils. <i>Journal of Magnetic Resonance</i> , 2018 , 289, 113-121	3	16
125	An Electronically Tunable Biomimetic Antenna Array. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 1248-1257	4.9	6
124	A Wideband, Unidirectional Circularly Polarized Antenna for Full-Duplex Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 1559-1563	4.9	28
123	A High-Isolation, Ultra-Wideband Simultaneous Transmit and Receive Antenna With Monopole-Like Radiation Characteristics. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 1002-1007	4.9	36
122	Dual-band platform-mounted HF/VHF antenna design using the characteristic mode theory. <i>IET Microwaves, Antennas and Propagation</i> , 2018 , 12, 452-458	1.6	9
121	An Angle-Sensing Infrared Detector Using a Two-Element Biomimetic Antenna Array. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 5818-5826	4.9	5
120	Non-coaxial-based microwave ablation antennas for creating symmetric and asymmetric coagulation zones. <i>Journal of Applied Physics</i> , 2018 , 123, 214903	2.5	10
119	A Small-Aperture, Ultrawideband HF/VHF Direction-Finding System For Unmanned Aerial Vehicles. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 5109-5120	4.9	9
118	Trellis-Coded Space-Time Shift Keying. <i>IEEE Transactions on Communications</i> , 2018 , 66, 5888-5901	6.9	2
117	A New Reconfigurable Antenna MIMO Architecture for mmWave Communication 2018 ,		12
116	Wideband, Non-Foster Impedance Matching of Electrically Small Transmitting Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 5687-5697	4.9	13
115	Design of platform-based HF direction finding antennas using the characteristic mode theory 2018 ,		3

114	Capacity enhancement of MIMO systems using electrically-small, biomimetic antenna arrays 2018 ,		1
113	Mechanical Super-Low Frequency (SLF) Transmitter Using Electrically-Modulated Reluctance 2018 ,		5
112	Design of Bandwidth-Enhanced Platform-Mounted Electrically Small VHF Antennas Using the Characteristic-Mode Theory. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 2384-2388	3.8	11
111	Subwavelength angle-sensing photodetectors inspired by directional hearing in small animals. <i>Nature Nanotechnology</i> , 2018 , 13, 1143-1147	28.7	40
110	Tools for Attacking Tumors: Performance Comparison of Triaxial, Choke Dipole, and Balun-Free Base-Fed Monopole Antennas for Microwave Ablation. <i>IEEE Antennas and Propagation Magazine</i> , 2018 , 60, 52-57	1.7	13
109	. <i>IEEE Antennas and Propagation Magazine</i> , 2018 , 60, 32-44	1.7	10
108	Capacity-enhancement in MIMO systems using biomimetic electrically small antenna arrays. <i>IET Microwaves, Antennas and Propagation</i> , 2018 , 12, 2001-2006	1.6	4
107	Power-Handling Capabilities of Non-Foster Impedance-Matching Networks: Using Gridded Vacuum Tubes and Power Transistors. <i>IEEE Antennas and Propagation Magazine</i> , 2018 , 60, 60-69	1.7	3
106	A mechanically based magneto-inductive transmitter with electrically modulated reluctance. <i>PLoS ONE</i> , 2018 , 13, e0199934	3.7	12
105	Design of vehicle-mounted, compact VHF antennas using characteristic mode theory 2017 ,		4
104	A Three-Element Biomimetic Antenna Array With an Electrically Small Triangular Lattice. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 4007-4016	4.9	6
103	A Hybrid Slot/Monopole Antenna With Directional Heating Patterns for Microwave Ablation. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 3889-3896	4.9	21
102	Array Sensitivity for Model-Based Microwave Breast Imaging. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 2958-2965	4.9	5
101	Inductive Meandered Metal Line Metamaterial for Rectangular Waveguide Linings. <i>IEEE Transactions on Plasma Science</i> , 2017 , 45, 654-664	1.3	7
100	Reduced-Diameter Designs of Coax-Fed Microwave Ablation Antennas Equipped With Baluns. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 1385-1388	3.8	16
99	A Compact, Capacitively Fed UWB Antenna With Monopole-Like Radiation Characteristics. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 1026-1037	4.9	30
98	Inductive meandered line metamaterial for metamaterial-enhanced resistive wall amplifiers 2017 ,		1
97	A reflective-type, quasi-optical metasurface filter. <i>Journal of Applied Physics</i> , 2017 , 122, 064901	2.5	3

96	A Wide Dynamic Range Polarization Sensing Long Wave Infrared Detector. <i>Scientific Reports</i> , 2017 , 7, 17475	4.9	8
95	A Hybrid Miniaturized-Element Frequency Selective Surface With a Third-Order Bandpass Response. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 708-711	3.8	15
94	The impact of frequency on the performance of microwave ablation. <i>International Journal of Hyperthermia</i> , 2017 , 33, 61-68	3.7	33
93	A Minimally Invasive Coax-Fed Microwave Ablation Antenna With a Tapered Balun. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 7280-7287	4.9	18
92	Characterizations of biodegradable epoxy-coated cellulose nanofibrils (CNF) thin film for flexible microwave applications. <i>Cellulose</i> , 2016 , 23, 1989-1995	5.5	11
91	A Dual-Band, Inductively Coupled Miniaturized-Element Frequency Selective Surface With Higher Order Bandpass Response. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 3729-3734	4.9	47
90	Exploiting Mechanical Flexure as a Means of Tuning the Responses of Large-Scale Periodic Structures. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 933-943	4.9	19
89	A Compact Parylene-Coated WLAN Flexible Antenna for Implantable Electronics. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016 , 15, 1382-1385	3.8	40
88	Wideband Linear-to-Circular Polarization Converters Based on Miniaturized-Element Frequency Selective Surfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 525-534	4.9	124
87	A Low-Profile, Wideband Antenna With Vertically Polarized Directional Radiation. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016 , 15, 1093-1096	3.8	4
86	Bandwidth Enhancement of Platform-Mounted HF Antennas Using the Characteristic Mode Theory. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 2648-2659	4.9	45
85	A Fluidically Tunable, Dual-Band Patch Antenna With Closely Spaced Bands of Operation. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016 , 15, 118-121	3.8	14
84	A broadband, circular-polarization selective surface. <i>Journal of Applied Physics</i> , 2016 , 119, 244901	2.5	13
83	MAcro-Electro-Mechanical Systems (MMS) based concept for microwave beam steering in reflectarray antennas. <i>Journal of Applied Physics</i> , 2016 , 120, 054901	2.5	10
82	Metamaterial-Enhanced Resistive Wall Amplifier Design Using Periodically Spaced Inductive Meandered Lines. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 2476-2484	1.3	10
81	Broadband True-Time-Delay Circularly Polarized Reflectarray With Linearly Polarized Feed. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 4891-4896	4.9	19
80	. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 959-965	4.9	46
79	Metamaterial-Enhanced Resistive Wall Amplifiers: Theory and Particle-in-Cell Simulations. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 2123-2131	1.3	13

78	Large-Scale Fluidic Tuning of Subwavelength Periodic Structures. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015 , 14, 190-193	3.8	6
77	A Compact, Broadband Spiral Antenna With Unidirectional Circularly Polarized Radiation Patterns. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 2776-2781	4.9	26
76	Fluidic beam steering in parasitically coupled patch antenna arrays. <i>Electronics Letters</i> , 2015 , 51, 1229-1231		3
75	Inductively-Coupled Miniaturized-Element Frequency Selective Surfaces With Narrowband, High-Order Bandpass Responses. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 4766-4774	4.9	44
74	A Fluidic Colorimetric Sensor Design for Water Hardness Detection. <i>IEEE Sensors Journal</i> , 2015 , 15, 819-826		12
73	Bandwidth enhancement of platform-mounted HF antennas using the characteristic modes theory 2015 ,		1
72	A Low-Profile, Vertically Polarized Ultrawideband Antenna With Monopole-Like Radiation Characteristics. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 3699-3705	4.9	30
71	Metamaterials for Rapidly Forming Large-Area Distributed Plasma Discharges for High-Power Microwave Applications. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 4099-4109	1.3	9
70	Low-cost phased-array antenna technology enabled by MAcro-Electro-Mechanical Systems (MMS) 2015 ,		2
69	A TSVD Analysis of the Impact of Polarization on Microwave Breast Imaging using an Enclosed Array of Miniaturized Patch Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015 , 14, 418-421	3.8	14
68	A Two-Element Biomimetic Antenna Array With Enhanced Angular Resolution and Optimized Power Extraction. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 1059-1066	4.9	14
67	Ultra-Wideband, True-Time-Delay Reflectarray Antennas Using Ground-Plane-Backed, Miniaturized-Element Frequency Selective Surfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 534-542	4.9	53
66	Investigating the Physics of Simultaneous Breakdown Events in High-Power-Microwave (HPM) Metamaterials With Multiresonant Unit Cells and Discrete Nonlinear Responses. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 1255-1264	1.3	8
65	Microwave ablation at 10.0 GHz achieves comparable ablation zones to 1.9 GHz in ex vivo bovine liver. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 1702-10	5	51
64	Design of Wideband, FSS-Based MultiBeam Antennas Using the Effective Medium Approach. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 5557-5564	4.9	57
63	Harmonic-Suppressed Miniaturized-Element Frequency Selective Surfaces With Higher Order Bandpass Responses. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 2562-2571	4.9	63
62	A harmonic-suppressed miniaturized-element frequency selective surface with a second-order bandpass response 2014 ,		1
61	Compact parylene-c-coated flexible antenna for WLAN and upper-band UWB applications. <i>Electronics Letters</i> , 2014 , 50, 1782-1784	1.1	25

60	An Electrically Small, Vertically Polarized Ultrawideband Antenna With Monopole-Like Radiation Characteristics. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014 , 13, 742-745	3.8	30
59	Large-scale fluidic tuning of sub-wavelength periodic structures 2014 ,		1
58	Investigating the effective range of vacuum ultraviolet-mediated breakdown in high-power microwave metamaterials. <i>Journal of Applied Physics</i> , 2014 , 116, 143302	2.5	4
57	Multi-Band Miniaturized Patch Antennas for a Compact, Shielded Microwave Breast Imaging Array. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 62, 1221-1231	4.9	55
56	Thermoelectric Powered Wireless Sensors for Dry-Cask Storage. <i>IEEE Transactions on Nuclear Science</i> , 2013 , 60, 1072-1079	1.7	4
55	Wideband True-Time-Delay Microwave Lenses Based on Metallo-Dielectric and All-Dielectric Lowpass Frequency Selective Surfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 4109-4119	4.9	85
54	Investigating the Impact of Microwave Breakdown on the Responses of High-Power Microwave Metamaterials. <i>IEEE Transactions on Plasma Science</i> , 2013 , 41, 2992-3000	1.3	13
53	Biomimetic Antenna Arrays Based on the Directional Hearing Mechanism of the Parasitoid Fly <i>Ormia ochracea</i> . <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 2500-2510	4.9	27
52	Beamspace MIMO for Millimeter-Wave Communications: System Architecture, Modeling, Analysis, and Measurements. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 3814-3827	4.9	475
51	All-dielectric, true-time-delay, planar microwave lenses 2013 ,		1
50	A Very Low-Profile, Omnidirectional, Ultrawideband Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2013 , 12, 280-283	3.8	36
49	Frequency Selective Surfaces for Pulsed High-Power Microwave Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 677-687	4.9	50
48	Broadband True-Time-Delay Microwave Lenses Based on Miniaturized Element Frequency Selective Surfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 1166-1179	4.9	118
47	Architecture, Design, and Nonlinear Optimization of Three-Element Biomimetic Antenna Arrays. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2013 , 12, 1416-1419	3.8	8
46	An Improved Architecture for Two-Element Biomimetic Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 6224-6228	4.9	18
45	A COMPACT, LOW-PROFILE, ULTRA-WIDEBAND ANTENNA UTILIZING DUAL-MODE COUPLED RADIATORS. <i>Progress in Electromagnetics Research B</i> , 2013 , 50, 235-251	0.7	1
44	Analysis of electromagnetic wave tunneling through stacked single-negative metamaterial slabs: A microwave filter theory approach 2012 ,		1
43	High-power microwave filters and frequency selective surfaces utilizing EM wave tunneling through ϵ -negative layers 2012 ,		1

42	X-band energy harvester with miniaturized on-chip slot antenna implemented in 0.18- μ m RF CMOS 2012 ,			2
41	Fluidically Tunable Frequency Selective/Phase Shifting Surfaces for High-Power Microwave Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 2748-2759	4.9		78
40	A Third-Order Bandpass Frequency Selective Surface With a Tunable Transmission Null. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 2109-2113	4.9		24
39	Frequency selective surfaces for high-power microwave (HPM) applications 2012 ,			2
38	Quantitative Microwave Imaging of Realistic Numerical Breast Phantoms Using an Enclosed Array of Multiband, Miniaturized Patch Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 1626-1629	3.8		13
37	THEORETICAL EXAMINATION OF ELECTROMAGNETIC WAVE TUNNELING THROUGH CASCADED ϵ - AND μ -NEGATIVE METAMATERIAL SLABS. <i>Progress in Electromagnetics Research B</i> , 2012 , 42, 1-22	0.7		7
36	Reverse chromatic aberration and its numerical optimization in a metamaterial lens. <i>Optics Express</i> , 2012 , 20, 8761-9	3.3		4
35	Discrete lens array modeling and design for optimum MIMO communications at mm-wave 2012 ,			3
34	MRI-Derived 3-D-Printed Breast Phantom for Microwave Breast Imaging Validation. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 1610-1613	3.8		91
33	Ultra-wideband, true-time-delay, metamaterial-based microwave lenses 2012 ,			7
32	Design of a microwave breast imaging array composed of dual-band miniaturized antennas 2011 ,			4
31	Wideband Planar Microwave Lenses Using Sub-Wavelength Spatial Phase Shifters. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 4542-4552	4.9		159
30	Continuous aperture phased MIMO: A new architecture for optimum line-of-sight links 2011 ,			33
29	Biologically Inspired Electrically Small Antenna Arrays With Enhanced Directional Sensitivity. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 361-364	3.8		26
28	Biologically-inspired antenna arrays based on the hearing mechanism of the parasitoid fly <i>Ormia ochracea</i> 2011 ,			4
27	Flexible high-frequency microwave inductors and capacitors integrated on a polyethylene terephthalate substrate. <i>Applied Physics Letters</i> , 2010 , 96, 013509	3.4		62
26	Biomimetic electrically small antennas 2010 ,			2
25	Biomimetic electrically small antennas. <i>Electronics Letters</i> , 2010 , 46, 1650	1.1		10

24	A Wideband, Dual-Polarized, Substrate-Integrated Cavity-Backed Slot Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2010 , 9, 645-648	3.8	44
23	Dual-Band Miniaturized Patch Antennas for Microwave Breast Imaging. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2010 , 9, 268	3.8	44
22	. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 4042-4050	4.9	84
21	A Generalized Method for Synthesizing Low-Profile, Band-Pass Frequency Selective Surfaces With Non-Resonant Constituting Elements. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 4033-4041	4.9	163
20	Liquid-Tunable Frequency Selective Surfaces. <i>IEEE Microwave and Wireless Components Letters</i> , 2010 , 20, 423-425	2.6	72
19	A Generalized Synthesis Procedure for Low-Profile, Frequency Selective Surfaces With Odd-Order Bandpass Responses. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 2460-2464	4.9	66
18	Continuous aperture phased MIMO: Basic theory and applications 2010 ,		69
17	Design of compact, narrow-band, band-pass microwave filters in coplanar waveguide technology. <i>Microwave and Optical Technology Letters</i> , 2010 , 52, 1999-2002	1.2	
16	Single- and dual-polarized miniaturized slot antennas and their applications in on-chip integrated radios 2009 ,		2
15	A New Technique for Design of Low-Profile, Second-Order, Bandpass Frequency Selective Surfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2009 , 57, 452-459	4.9	191
14	A 2.45-GHz Electrically Small Slot Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2008 , 7, 346-348	3.48	15
13	A Second-Order Dual X-/Ka-Band Frequency Selective Surface. <i>IEEE Microwave and Wireless Components Letters</i> , 2008 , 18, 785-787	2.6	87
12	A second-order band-pass frequency selective surface using nonresonant subwavelength periodic structures. <i>Microwave and Optical Technology Letters</i> , 2008 , 50, 1639-1643	1.2	55
11	Compact odd-order band-pass filters using capacitively coupled spiral resonators. <i>Microwave and Optical Technology Letters</i> , 2008 , 50, 3172-3175	1.2	
10	. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 1239-1245	4.9	362
9	A varactor-tuned dual-band slot antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2006 , 54, 401-408	4.9	176
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7	A measurement system for ultrawide-band communication channel characterization. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 2146-2155	4.9	2

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3	Bandwidth enhancement and further size reduction of a class of miniaturized slot antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2004 , 52, 1928-1935	4-9	67
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1	Non-Foster Impedance Matching1-11		