

# Zhi Ning Chen

## 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.

297  
papers

8,470  
citations

50  
h-index

81  
g-index

368  
ext. papers

11,247  
ext. citations

3.8  
avg, IF

6.94  
L-index

#	Paper	IF	Citations
297	A Transformation-Optics-Based Flat Metamaterial Luneburg Lens Antenna with Zero Focal Length. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2022</b> , 1-1	4.9	3
296	A Hemispherical Wide-Angle Beamsteering Near-Surface Focal-Plane Metamaterial Luneburg Lens Antenna Using Transformation-Optics. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2022</b> , 1-1	4.9	0
295	Prior-Knowledge-Guided Deep-Learning-Enabled Synthesis for Broadband and Large Phase-Shift Range Metacells in Metalens Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2022</b> , 1-1	4.9	3
294	Characteristic Mode-Inspired Advanced Multiple Antennas. <i>IEEE Antennas and Propagation Magazine</i> , <b>2022</b> , 2-10	1.7	10
293	Phased Array Metantennas for Satellite Communications. <i>IEEE Communications Magazine</i> , <b>2022</b> , 60, 46-50.1		3
292	Reactive Impedance Surface-Loaded Wideband Wide-scanning Phased Array in Triangular Lattice. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	0
291	Broadband Polarization Conversion Metasurface for Antenna RCS Reduction. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	1
290	Measurement Methods and Setups of Antennas at 60-25 GHz Bands <b>2021</b> , 25-54		
289	Substrate Integrated Antennas for Millimeter Wave Automotive Radars <b>2021</b> , 211-240		
288	Substrate Integrated mmW Antennas on LTCC <b>2021</b> , 55-91		
287	Introduction to Millimeter Wave Antennas <b>2021</b> , 1-24		1
286	Broadband Metamaterial-Mushroom Antenna Array at 60 GHz Bands <b>2021</b> , 93-114		
285	Gain Enhancement of LTCC Microstrip Patch Antenna by Suppressing Surface Waves <b>2021</b> , 197-209		
284	Substrate Edge Antennas <b>2021</b> , 259-285		
283	Characteristic Mode Inspired Dual-Polarized Double-Layer Metasurface Lens. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 3144-3154	4.9	6
282	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 3294-3302	4.9	8
281	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 3512-3516	4.9	19

280	Improving Radiation Pattern Roundness of a Monopole Antenna Placed Off-Center Above a Circular Ground Plane Using Characteristic Mode Analysis. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 1135-1139	4.9	5
279	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 1874-1884	4.9	11
278	A Compact Beamsteering Metasurface Lens Array Antenna With Low-Cost Phased Array. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 1992-2002	4.9	10
277	Azimuthally Inhomogeneous Metasurface Cloak for Cylindrical Objects. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 254-262	4.9	3
276	Sidelobe Suppression of Metalens Antenna by Amplitude and Phase Controllable Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	10
275	Dual-band Miniaturized Linear-to-Circular Metasurface Polarization Converter with Wideband and Wide-Angle Axial Ratio. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	5
274	Wideband Wide-Scanning Planar Triangular-Lattice Phased Array With Substrate-Integrated Cavity-Backed U-Slot Patches. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 6082-6086	4.9	3
273	Low-profile Broadband Dual-polarization Double-layer Metasurface Antenna for 2G/3G/LTE Cellular Base-stations. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	5
272	High Efficiency Metalens Antenna Using Huygens Metasurface with Glide Symmetric I-shape Metal Strips. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	7
271	Metantennas: Flat Luneburg Lens Antennas Using Transformation Optics Method (TOM) <b>2020</b> ,		2
270	Wideband and Wide-Angle FSS Using Loop Slotted Hybrid Quarter-Mode Substrate Integrated Cavity With Two Independently Controllable Poles. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 8221-8226	4.9	7
269	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 5496-5504	4.9	9
268	Dispersion-engineered wideband low-profile metasurface antennas. <i>Frontiers of Information Technology and Electronic Engineering</i> , <b>2020</b> , 21, 27-38	2.2	3
267	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 1332-1347	4.9	44
266	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 1366-1377	4.9	33
265	Compact Wideband Wide-Angle Polarization-Free Metasurface Lens Antenna Array for Multibeam Base Stations. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 1378-1388	4.9	17
264	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 1356-1365	4.9	26
263	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 5652-5657	4.9	18

262	A Single-Layer Dual-Polarized Differentially Fed Patch Antenna With Enhanced Gain and Bandwidth Operating at Dual Compressed High-Order Modes Using Characteristic Mode Analysis. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 4082-4087	4.9	12
261	Compact High-Efficiency Resonator Antennas Based on Dispersion Engineering of Even-Mode Spoof Surface Plasmon Polaritons. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 2557-2564	4.9	6
260	Series YBCO grain boundary Josephson junctions as a terahertz harmonic mixer. <i>Superconductor Science and Technology</i> , <b>2020</b> , 33, 025001	3.1	7
259	Broadband Low-Profile L-Probe Fed Metasurface Antenna With TM Leaky Wave and TE Surface Wave Resonances. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 1348-1355	4.9	34
258	Microwave Metasurface-based Lens Antennas for 5G and Beyond <b>2020</b> ,		3
257	Unlimited Power Division Ratio of Microstrip Balanced-to-Unbalanced Gysel-Type Arbitrary Power Divider. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1124	2.6	0
256	Ka-band Mechanically Beam Scanning Bifocal Reflectarray Antenna with Optimized Phase Distribution <b>2020</b> ,		1
255	Group delay flatness and bandwidth enhancement of wideband negative group delay microwave circuit. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2020</b> , 30, e22443	1.5	0
254	Wideband and Wide-Angle Single-Layered-Substrate Linear-to-Circular Polarization Metasurface Converter. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 1186-1191	4.9	30
253	A Low-Profile Wideband Hybrid Metasurface Antenna Array for 5G and WiFi Systems. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 665-671	4.9	23
252	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 1468-1476	4.9	37
251	Low-Profile 2-D THz Airy Beam Generator Using the Phase-Only Reflective Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 1503-1513	4.9	12
250	Shared-Surface Dual-Band Antenna for 5G Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 1128-1133	4.9	39
249	Isolation Improvement and Beam Manipulation of Dual-Polarized RIS-Halved Lens Antennas for Compact Transceiver Systems. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 5877-5884	4.9	2
248	. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2019</b> , 18, 576-580	3.8	7
247	Radiation Pattern Restoration of Closely-placed Cross-band Dipole Antennas Using Characteristic Mode Analysis <b>2019</b> ,		2
246	Graphene-Based Dynamically Tunable Attenuator on Spoof Surface Plasmon Polaritons Waveguide. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2019</b> , 29, 388-390	2.6	5
245	Radiation Pattern Improvement of Cross-Band Dipoles Using Inductive-Loading Mode-Suppression Method. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 3467-3471	4.9	13

244	Single-Layer Dual-Band Microwave Metasurface Cloak of Conducting Cylinder. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 4286-4290	4.9	14
243	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 2961-2970	4.9	26
242	Grain Boundary Josephson Junction Harmonic Mixer Coupled With a Bowtie Loaded Meander Antenna With Zero-Bias Operation. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-4	1.8	4
241	Enhanced Bandwidth and Directivity of a Dual-Mode Compressed High-Order Mode Stub-Loaded Dipole Using Characteristic Mode Analysis. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 1922-1925	4.9	31
240	Design of 3-D Multilayer Ferrite-Loaded Frequency-Selective Absorbers With Wide Absorption Bands. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2019</b> , 67, 108-117	4.1	48
239	Slit-Slot Line and Its Application to Low Cross-Polarization Slot Antenna and Mutual-Coupling Suppressed Tripolarized MIMO Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 4-15	4.9	20
238	A Method of Suppressing Higher Order Modes for Improving Radiation Performance of Metasurface Multiport Antennas Using Characteristic Mode Analysis. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 1894-1902	4.9	75
237	An Injection-Locked-Based FMCW Transmitter With Synthetic Bandwidth Technique. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2018</b> , 28, 55-57	2.6	2
236	Control of Beam Direction for Substrate-Integrated Waveguide Slot Array Antenna Using Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 2862-2869	4.9	22
235	Considering High-Performance Near-Field Reader Antennas: Comparisons of Proposed Antenna Layouts for Ultrahigh-Frequency Near-Field Radio-Frequency Identification. <i>IEEE Antennas and Propagation Magazine</i> , <b>2018</b> , 60, 14-26	1.7	27
234	Circular Polarization and Mode Reconfigurable Wideband Orbital Angular Momentum Patch Array Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 1796-1804	4.9	34
233	Wide Bandwidth and Enhanced Gain of a Low-Profile Dipole Antenna Achieved by Integrated Suspended Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 1540-1544	4.9	33
232	Enhanced wireless power transfer using magnetostatic volume modes in anisotropic magnetic metamaterials <b>2018</b> ,		2
231	. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2018</b> , 8, 1292-1299	1.7	4
230	Realization of Beam Steering Based on Plane Spiral Orbital Angular Momentum Wave. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 1352-1358	4.9	34
229	A Directional, Closely Spaced Zero-Phase-Shift-Line Loop Array for UHF Near-Field RFID Reader Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 5639-5642	4.9	18
228	A Dual-Band Metasurface Antenna Using Characteristic Mode Analysis. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 5620-5624	4.9	73
227	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 5043-5051	4.9	43

226	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 5088-5097	4.9	63
225	. <i>IEEE Access</i> , <b>2018</b> , 6, 52877-52888	3.5	8
224	Design of dual-band metasurface antenna <b>2018</b> ,		4
223	Full Modeling, Loss Reduction, and Mutual Coupling Control of Spoof Surface Plasmon-Based Meander Slow Wave Transmission Lines. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 3764-3772	4.1	25
222	Reactance Matching for Superconducting YBCO Josephson Junction Detector Using Bowtie Antenna <b>2018</b> ,		1
221	Wide-Angle Beam Scanning Leaky-Wave Antenna Using Spoof Surface Plasmon Polaritons Structure. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 348	2.6	10
220	Metasurface-Based Shared-Aperture 5G S-Band Antenna Using Characteristic Mode Analysis. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 6742-6750	4.9	74
219	Wideband Substrate-Integrated Waveguide-Fed Endfire Metasurface Antenna Array. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 7032-7040	4.9	37
218	An Inductive Perforated Ground Backed Thin Electrically Large Zero-Phase-Shift Line Loop Antenna for UHF Near-Field RFID Reader <b>2018</b> ,		1
217	A C-Band FMCW SAR Transmitter With 2-GHz Bandwidth Using Injection-Locking and Synthetic Bandwidth Techniques. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 1-11	4.1	7
216	Design of Dual-Band Metasurface Antenna Array Using Characteristic Mode Analysis (CMA) for 5G Millimeter-Wave Applications <b>2018</b> ,		4
215	A Substrate Integrated Cavity Backed Filtering Slot Antenna Stacked With a Patch for Frequency Selectivity Enhancement. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2018</b> , 17, 1910-1914	3.8	23
214	Dual-Beam Filtering Patch Antennas for Wireless Communication Application. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 3730-3734	4.9	43
213	Characteristic Mode Analysis and Metasurface- Based Suppression of Higher Order Modes of a $2 \times 2$ Closely Spaced Phased Array. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 1141-1150	4.9	26
212	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 1599-1606	4.9	9
211	Compact Ultrawideband Circularly Polarized Weakly Coupled Patch Array Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 1-1	4.9	3
210	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 1706-1713	4.9	191
209	Design of a Near-Field Nonperiodic Zero Phase Shift-Line Loop Antenna With a Full Dispersion Characterization. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 2666-2670	4.9	9

208	Low-profile broadband mushroom and metasurface antennas <b>2017</b> ,		3
207	Highly radiative symmetric plasmonic leaky wave antenna <b>2017</b> ,		2
206	Slotted SIW leaky-wave antenna with improved backward scanning bandwidth and consistent gain <b>2017</b> ,		1
205	A Single-Layered Spoof-Plasmon-Mode Leaky Wave Antenna With Consistent Gain. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 681-687	4.9	93
204	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 5697-5701	4.9	18
203	Miniaturized Wideband Metasurface Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 7345-7349	4.9	85
202	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 5886-5894	4.9	40
201	A Longitudinally Compact Yagi-Uda Antenna With a Parasitic Interdigital Strip. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2017</b> , 16, 2618-2621	3.8	5
200	Dielectric Metamaterial-Based Impedance-Matched Elements for Broadband Reflectarray. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 7019-7028	4.9	12
199	Miniaturized metasurface unit cell for microwave metalens antennas <b>2017</b> ,		8
198	Lorentz force and the optical pulling of multiple rayleigh particles outside the dielectric cylindrical waveguides. <i>Annalen Der Physik</i> , <b>2017</b> , 529, 1600213	2.6	7
197	Compact Pattern-Reconfigurable Monopole Antenna Using Parasitic Strips. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2017</b> , 16, 557-560	3.8	30
196	Metamaterial-Based Thin Planar Lens Antenna for Spatial Beamforming and Multibeam Massive MIMO. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 464-472	4.9	145
195	Non-Line-of-Sight Channel Performance of Plane Spiral Orbital Angular Momentum MIMO Systems. <i>IEEE Access</i> , <b>2017</b> , 5, 25377-25384	3.5	13
194	<b>2017</b> ,		3
193	Compact wideband metasurface-based circularly polarized antenna for Ka-band phased array <b>2017</b> ,		7
192	Planar transmit-array antenna and plano-convex lens antenna for 77-GHz automotive radar <b>2017</b> ,		2
191	Review of Zero-Phase-Shift-Line Loop Antennas for UHF Near-Field RFID Readers. <i>IEEE Journal of Radio Frequency Identification</i> , <b>2017</b> , 1, 245-252	2.4	2

190	A broadband 3D frequency selective rasorber by using magnetic materials <b>2017</b> ,		6
189	Broadband circularly polarized antenna using metasurface <b>2017</b> ,		1
188	Probe-fed broadband low-profile metasurface antennas using characteristic mode analysis <b>2017</b> ,		14
187	Low-profile bilayer metasurface integrated antenna for cellular base stations <b>2017</b> ,		1
186	AMC-based high-isolation SIW slot array antennas for ka-band SAR systems <b>2017</b> ,		1
185	Low-Loss Spoof Surface Plasmon Slow-Wave Transmission Lines With Compact Transition and High Isolation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2016</b> , 64, 3078-3086	4.1	102
184	Mutual Coupling Reduction of a Closely Spaced Four-Element MIMO Antenna System Using Discrete Mushrooms. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2016</b> , 64, 3060-3067	4.1	32
183	Modeling and Characterization of Zero-Phase-Shift Lines and Optimization of Electrically Large ZPSL Loop Antennas for Near-Field Systems. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 4587-4594	4.9	12
182	Effect of mutual coupling on Ka-band circularly polarized beam scanning antenna array <b>2016</b> ,		4
181	Mode analysis and experimental verification of shorting-wall loaded mushroom antenna <b>2016</b> ,		2
180	<b>2016</b> ,		5
179	<b>2016</b> ,		3
178	Metamaterial magneto inductive lens for magnetic resonance imaging <b>2016</b> ,		4
177	Planar Image-Reject Bow-Tie Antenna With Gain Enhancement for Superheterodyne Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2016</b> , 15, 658-661	3.8	8
176	Spoof Plasmon-Based Slow-Wave Excitation of Dielectric Resonator Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 2094-2099	4.9	73
175	Synthesis Method for Substrate-Integrated Waveguide Bandpass Filter With Even-Order Chebyshev Response. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2016</b> , 6, 126-135	1.7	30
174	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 574-581	4.9	27
173	. <i>IEEE Antennas and Propagation Magazine</i> , <b>2016</b> , 58, 39-46	1.7	104

172	Independent Mobility Achieved through a Wireless Brain-Machine Interface. <i>PLoS ONE</i> , <b>2016</b> , 11, e0165737	22
171	A circularly polarized beam-steering antenna system for GNSS applications <b>2016</b> ,	1
170	Miniaturized broadband metasurface antenna using stepped impedance resonators <b>2016</b> ,	11
169	Implanted Antennas and RF Transmission in Through-Body Communications <b>2016</b> , 159-203	
168	Enhanced Radiation From a Horizontal Dipole Closely Placed Above a PEC Ground Plane Using a Parasitic Strip. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 4868-4871	4.9 17
167	Excitation for tightly coupled beam scanning antenna array based on inverse scattering <b>2016</b> ,	2
166	Acoustic cloaking by extraordinary sound transmission. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 214507	2.5 14
165	A Wideband Ultra-Thin Differential Loop-Fed Patch Antenna for Head Implants. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 3244-3248	4.9 17
164	Metamaterial-Based Low-Profile Broadband Aperture-Coupled Grid-Slotted Patch Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 3325-3329	4.9 164
163	77-GHz Dual-Layer Transmit-Array for Automotive Radar Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 2833-2837	4.9 49
162	A Compact Differential Filtering Quasi-Yagi Antenna With High Frequency Selectivity and Low Cross-Polarization Levels. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2015</b> , 14, 1573-1576	3.8 49
161	Simplification and Implementation of Decoupling and Matching Network With Port Pattern-Shaping Capability for Two Closely Spaced Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 3695-3699	4.9 18
160	Broadband and Ultrathin Frequency-Dispersive Metamaterial Screen for Reflectivity Reduction. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 4156-4160	4.9 17
159	Miniaturized Patch Antenna With Grounded Strips. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 843-848	4.9 31
158	<b>2015</b> ,	3
157	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 3362-3370	4.9 108
156	Design and Modeling of Spoof Surface Plasmon Modes-Based Microwave Slow-Wave Transmission Line. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2015</b> , 63, 1817-1825	4.1 188
155	Mutual coupling reduction of compact four-element MIMO slot antennas using metamaterial mushroom structures <b>2015</b> ,	2

154	A wideband horizontally polarized omnidirectional antenna <b>2015,</b>		6
153	<b>2015,</b>		3
152	A metamaterial-based broadband circularly polarized aperture-fed grid-slotted patch antenna <b>2015</b>		28
151	Metamaterial-based antennas: Engineering designs <b>2015,</b>		1
150	Substrate-integrated antennas at 60/77/140/270 GHz <b>2015,</b>		1
149	An ultrathin microwave Huygens' metasurface lens <b>2015,</b>		4
148	Metamaterial lens for magnetic resonance imaging <b>2015,</b>		1
147	Tapered composite right/left-handed leaky-wave antenna for wideband broadside radiation. <i>Microwave and Optical Technology Letters</i> , <b>2015</b> , 57, 624-629	1.2	12
146	60-GHz antennas on PCB <b>2014,</b>		7
145	Design and measurement of substrate-integrated planar millimeter wave antenna arrays at 60B25 GHz <b>2014,</b>		1
144	60-GHz Thin Broadband High-Gain LTCC Metamaterial-Mushroom Antenna Array. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 4592-4601	4.9	53
143	Gain Enhancement of Beam Scanning Substrate Integrated Waveguide Slot Array Antennas Using a Phase-Correcting Grating Cover. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 4584-4591	4.9	29
142	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 1165-1172	4.9	197
141	A Beam Scanning Leaky-Wave Slot Antenna With Enhanced Scanning Angle Range and Flat Gain Characteristic Using Composite Phase-Shifting Transmission Line. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 5871-5875	4.9	59
140	Electromagnetic Lens-Focusing Antenna Enabled Massive MIMO: Performance Improvement and Cost Reduction. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2014</b> , 32, 1194-1206	14.2	86
139	A slotted circularly-polarized patch antenna for near-field and far-field UHF RFID applications <b>2014,</b>		4
138	Electrically Large Zero-Phase-Shift Line Grid-Array UHF Near-Field RFID Reader Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 2201-2208	4.9	42
137	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 4528-4536	4.9	42

136	Manipulation of acoustic focusing with an active and configurable planar metasurface transducer. <i>Scientific Reports</i> , <b>2014</b> , 4, 6257	4.9	62
135	A Compact Circularly Polarized Slotted Patch Antenna for GNSS Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 6506-6509	4.9	62
134	SIW-Slot-Fed Thin Beam-Squint-Free Fabry-Pérot Cavity Antenna With Low Backlobe Levels. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2014</b> , 13, 552-554	3.8	11
133	Stripline aperture coupled metamaterial mushroom antenna with increased front-to-back ratio <b>2014</b> ,		3
132	Metamaterial-based wideband horizontally polarized omnidirectional 5-GHz WLAN antenna array <b>2014</b> ,		9
131	Dual-square-ring-shaped slot antenna for wideband circularly polarized radiation. <i>Microwave and Optical Technology Letters</i> , <b>2014</b> , 56, 2645-2649	1.2	13
130	Measurement setups for millimeter-wave antennas at 60/140/270 GHz bands <b>2014</b> ,		11
129	A wideband differential directional antenna for head implants <b>2014</b> ,		1
128	270-GHz LTCC-Integrated Strip-Loaded Linearly Polarized Radial Line Slot Array Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 1794-1801	4.9	20
127	. <i>IEEE Antennas and Propagation Magazine</i> , <b>2013</b> , 55, 124-137	1.7	42
126	Cross-Band Mutual Coupling of Monopole Antennas on a Finite-Sized Ground Plane. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 4372-4375	4.9	7
125	Zero-phase-shift line antennas <b>2013</b> ,		1
124	Channel Characterization of Walking Passerby's Effects on 2.48-GHz Wireless Body Area Network. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 1495-1498	4.9	4
123	Compact Substrate Integrated Waveguide Slot Antenna Array With Low Back Lobe. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2013</b> , 12, 999-1002	3.8	18
122	. <i>IEEE Antennas and Propagation Magazine</i> , <b>2013</b> , 55, 84-99	1.7	37
121	270-GHz LTCC-Integrated High Gain Cavity-Backed Fresnel Zone Plate Lens Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 1679-1687	4.9	36
120	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 1616-1622	4.9	28
119	Electromagnetic lens-focusing antenna enabled massive MIMO <b>2013</b> ,		9

118	Compact SIW bandpass filter for wideband millimeter-wave applications <b>2013</b> ,		2
117	Compact ultra-wideband microstrip-to-coplanar stripline transitions <b>2013</b> ,		2
116	A compact metamaterial-based horizontally polarized omnidirectional antenna array <b>2013</b> ,		5
115	Planar Filtering Ultra-Wideband (UWB) Antenna With Shorting Pins. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 948-953	4.9	55
114	Electrically Large Dual-Loop Antenna for UHF Near-Field RFID Reader. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 1019-1025	4.9	46
113	Gain Enhancement of 60-GHz Antipodal Tapered Slot Antenna Using Zero-Index Metamaterial. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 1741-1746	4.9	92
112	Substrate Integrated Metamaterial-Based Leaky-Wave Antenna With Improved Boresight Radiation Bandwidth. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 3451-3457	4.9	73
111	Single-Layered SIW Post-Loaded Electric Coupling-Enhanced Structure and Its Filter Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2013</b> , 61, 125-130	4.1	50
110	Empirical Formula of Cavity Dominant Mode Frequency for 60-GHz Cavity-Backed Wide Slot Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 969-972	4.9	16
109	140-GHz TE <sub>20</sub> -Mode Dielectric-Loaded SIW Slot Antenna Array in LTCC. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 1784-1793	4.9	62
108	Redirection of sound waves using acoustic metasurface. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 151604	3.4	111
107	Report on the Inaugural IEEE Asia-Pacific Conference on Antennas and Propagation (APCAP). <i>IEEE Antennas and Propagation Magazine</i> , <b>2013</b> , 55, 147-152	1.7	
106	Development of Ultra-Wideband Antennas. <i>Journal of the Korean Institute of Electromagnetic Engineering and Science</i> , <b>2013</b> , 13, 63-72	2.3	8
105	Gain enhancement of antipodal tapered slot antenna using zero-index metamaterial <b>2012</b> ,		5
104	Antennas for WiFi Connectivity. <i>Proceedings of the IEEE</i> , <b>2012</b> , 100, 2322-2329	14.3	26
103	A High Gain Antenna With an Optimized Metamaterial Inspired Superstrate. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 6018-6023	4.9	136
102	A Compact Circularly Polarized Cross-Shaped Slotted Microstrip Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 1584-1588	4.9	93
101	140-GHz Planar Broadband LTCC SIW Slot Antenna Array. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 3025-3028	4.9	63

100	Substrate Integrated Waveguide Cavity-Backed Wide Slot Antenna for 60-GHz Bands. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 6023-6026	4.9	104
99	Axial Ratio Bandwidth Enhancement of 60-GHz Substrate Integrated Waveguide-Fed Circularly Polarized LTCC Antenna Array. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 4619-4626	4.9	136
98	Multilayered Composite Right/Left-Handed Leaky-Wave Antenna With Consistent Gain. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 5056-5062	4.9	67
97	Study of dynamic on-body link reliability for WBAN systems <b>2012</b> ,		2
96	A UHF near-field/far-field RFID metamaterial-inspired loop antenna <b>2012</b> ,		6
95	Subwavelength Substrate-Integrated Fabry-Pérot Cavity Antennas Using Artificial Magnetic Conductor. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 30-35	4.9	60
94	Research and development of microwave & millimeter-wave technology in singapore <b>2012</b> ,		2
93	Compact circularly polarized asymmetric-slotted microstrip patch antennas. <i>Microwave and Optical Technology Letters</i> , <b>2012</b> , 54, 1920-1927	1.2	18
92	Split-step finite-difference time-domain method with perfectly matched layers for efficient analysis of two-dimensional photonic crystals with anisotropic media. <i>Optics Letters</i> , <b>2012</b> , 37, 326-8	3	4
91	Fabry-Perot cavity antenna with beam switching <b>2012</b> ,		2
90	A horizontally polarized omnidirectional slot antenna array <b>2012</b> ,		4
89	Wideband circularly polarized slot antenna <b>2012</b> ,		2
88	Bandwidth Enhancement for a 60 GHz Substrate Integrated Waveguide Fed Cavity Array Antenna on LTCC. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 826-832	4.9	166
87	Wideband Millimeter-Wave Substrate Integrated Waveguide Slotted Narrow-Wall Fed Cavity Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 1488-1496	4.9	63
86	Gain-Enhanced 60-GHz LTCC Antenna Array With Open Air Cavities. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 3470-3473	4.9	80
85	Compact Asymmetric-Slit Microstrip Antennas for Circular Polarization. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 285-288	4.9	127
84	Compact Dual-Band and Ultrawideband Loop Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 2774-2779	4.9	13
83	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 3441-3444	4.9	13

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81	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 833-838	4.9	13
80	Symmetric-Aperture Antenna for Broadband Circular Polarization. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 3932-3936	4.9	42
79	A miniaturized directional UWB antenna <b>2011</b> ,		1
78	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 2588-2598	4.9	4
77	Efficient Complex Envelope ADI-FDTD Method for the Analysis of Anisotropic Photonic Crystals. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 801-803	2.2	5
76	Analysis and Optimization of Compact Suspended Plate MIMO Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 263-270	4.9	10
75	2.4/5-GHz dual-band PIFA for portable devices <b>2011</b> ,		1
74	Characterization of RF transmission in human body <b>2010</b> ,		1
73	A Broadband UHF Near-Field RFID Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 3829-3838	4.9	108
72	Dual-Band Circularly Polarized \$\$\$-Shaped Slotted Patch Antenna With a Small Frequency-Ratio. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 2112-2115	4.9	128
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70	A Split-Step FDTD Method for 3-D Maxwell's Equations in General Anisotropic Media. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 3647-3657	4.9	11
69	RF transmission in/through the human body at 915 MHz <b>2010</b> ,		4
68	Microstrip Patch Antennas With Enhanced Gain by Partial Substrate Removal. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 2811-2816	4.9	41
67	Comments on Comments on Measuring the Impedance of Balanced Antennas by an S-Parameter Method <i>IEEE Antennas and Propagation Magazine</i> , <b>2010</b> , 52, 171-172	1.7	5
66	Coplanar stripline ultra-wideband compact uniplanar bandpass filter with a notched band. <i>Microwave and Optical Technology Letters</i> , <b>2010</b> , 52, 1201-1203	1.2	2
65	Low cost 60-GHz microstrip bandpass filter with stub-loaded anticoupled line. <i>Microwave and Optical Technology Letters</i> , <b>2010</b> , 52, 2375-2378	1.2	1

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63	Compact ultra-wideband filtering antennas on low temperature co-fired ceramic substrate <b>2009</b> ,		3
62	Compact circularly polarized microstrip antenna for RFID handheld reader applications <b>2009</b> ,		8
61	Implementation of total-field/scattered-field technique in the 2-D LOD-FDTD method <b>2009</b> ,		3
60	A stopband-enhanced UWB bandpass filter using short-/open- stubs embedded ring resonator <b>2009</b> ,		1
59	A novel butterfly-shaped monopole UWB antenna. <i>Microwave and Optical Technology Letters</i> , <b>2009</b> , 51, 590-593	1.2	3
58	Efficient tensor based FDTD scheme for modeling sloped interfaces in lossy media. <i>Microwave and Optical Technology Letters</i> , <b>2009</b> , 51, 1530-1537	1.2	
57	A Universal UHF RFID Reader Antenna. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2009</b> , 57, 1275-1282	4.1	142
56	A Planar UWB Diversity Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 3467-3473	4.9	50
55	Diversity and its applications in ultra-wideband antennas <b>2009</b> ,		5
54	A UWB Dipole Antenna With Enhanced Impedance and Gain Performance. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 2959-2966	4.9	52
53	Measurement of UHF RFID tag antenna impedance <b>2009</b> ,		9
52	Experimental Characterization of UWB Antennas for On-Body Communications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 866-874	4.9	55
51	Miniaturization of small printed UWB antenna for WPAN applications <b>2009</b> ,		5
50	An Ultrawideband Diversity Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 1597-1605	4.9	111
49	Characteristics of a Metal-Backed Loop Antenna and its Application to a High-Frequency RFID Smart Shelf. <i>IEEE Antennas and Propagation Magazine</i> , <b>2009</b> , 51, 26-38	1.7	30
48	Miniaturized Multilayer UWB Antennas on LTCC. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 3988-3992	4.9	3
47	Compact monopole-like slot antenna and band-notched design for ultrawideband applications. <i>Radio Science</i> , <b>2009</b> , 44, n/a-n/a	1.4	4

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45	A Planar UWB Antenna With a Broadband Feeding Structure. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 2172-2175	4-9	16
44	Impedance Characterization of RFID Tag Antennas and Application in Tag Co-Design. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2009</b> , 57, 1268-1274	4-1	157
43	Correlation analysis of UWB MIMO antenna system configurations <b>2008</b> ,		9
42	An Electromagnetically Coupled UWB Plate Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2008</b> , 56, 1476-1479	4-9	19
41	On a Broadband Elevated Suspended-Plate Antenna with Consistent Gain. <i>IEEE Antennas and Propagation Magazine</i> , <b>2008</b> , 50, 95-105	1-7	3
40	Ultra-Wideband Antennas with Miniaturized Size, Reduced Ground Plane Reliance, and Enhanced Diversity <b>2008</b> ,		5
39	Ultrawideband Suspended Plate Antenna With Enhanced Impedance and Radiation Performance. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2008</b> , 56, 2490-2495	4-9	21
38	Monopole-like slot UWB antenna on LTCC <b>2008</b> ,		9
37	Platform effect on RFID tag antennas and co-design considerations <b>2008</b> ,		3
36	Ground Plane Effect on the Performance of a Butterfly-Shaped UWB Monopole <b>2008</b> ,		3
35	Compact ultra-wideband T-shaped CPW-fed monopole-like slot antenna <b>2008</b> ,		1
34	Parametric Study of Ultra-Wideband Dual Elliptically Tapered Antipodal Slot Antenna. <i>International Journal of Antennas and Propagation</i> , <b>2008</b> , 2008, 1-9	1.2	8
33	A broadband dual-fed notched suspended plate antenna. <i>Microwave and Optical Technology Letters</i> , <b>2008</b> , 50, 1093-1098	1.2	1
32	A microstrip patch antenna with broadened beamwidth. <i>Microwave and Optical Technology Letters</i> , <b>2008</b> , 50, 1885-1888	1.2	34
31	Wideband circularly polarized microstrip antenna array using a new single feed network. <i>Microwave and Optical Technology Letters</i> , <b>2008</b> , 50, 1784-1789	1.2	18
30	UHF omnidirectional bent dipole antenna for item-level RFID applications <b>2008</b> ,		7
29	Small UWB Antennas for Wireless USB Dongle Attached to Laptop Computer <b>2007</b> ,		4

28	Performance assessment of printed RFID reader antenna <b>2007</b> ,		1
27	UWB Antennas: From Hype, Promise to Reality <b>2007</b> ,		14
26	Wideband Reconfigurable Rolled Planar Monopole Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2007</b> , 55, 1760-1767	4.9	26
25	A Broadband Circularly Polarized Stacked Probe-Fed Patch Antenna for UHF RFID Applications. <i>International Journal of Antennas and Propagation</i> , <b>2007</b> , 2007, 1-8	1.2	35
24	High frequency RFID smart table antenna. <i>Microwave and Optical Technology Letters</i> , <b>2007</b> , 49, 2074-2076	6.2	8
23	UWB antennas: Design and application <b>2007</b> ,		4
22	Small Printed Ultrawideband Antenna With Reduced Ground Plane Effect. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2007</b> , 55, 383-388	4.9	246
21	Multi-loop antenna for high frequency RFID smart shelf application <b>2007</b> ,		5
20	Multi-dielectric layer multi-patches microstrip antenna for UWB applications <b>2007</b> ,		1
19	Proximity Effects of Metallic Environments on High Frequency RFID Reader Antenna: Study and Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2007</b> , 55, 3105-3111	4.9	81
18	Broadband and Compact Coupled Coplanar Stripline Filters With Impedance Steps. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2007</b> , 55, 2874-2886	4.1	17
17	Dual elliptically tapered antipodal slot antenna loaded by curved terminations for ultrawideband applications. <i>Radio Science</i> , <b>2006</b> , 41, n/a-n/a	1.4	15
16	Planar antennas. <i>IEEE Microwave Magazine</i> , <b>2006</b> , 7, 63-73	1.2	101
15	Reduced Ground-Plane Effect UWB Antenna and Application for Laptop Computers (Invited) <b>2006</b> ,		2
14	A Printed Ultra-Wideband Diversity Antenna <b>2006</b> ,		13
13	CPW bandpass filter with serially-connected series-stub resonators <b>2005</b> ,		1
12	Novel bi-arm rolled monopole for UWB applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2005</b> , 53, 672-677	4.9	50
11	Broadband suspended plate antenna with concaved center portion. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2005</b> , 53, 1550-1551	4.9	10

10	Signal optimization for UWB radio systems. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2005</b> , 53, 2178-2184	4.9	21
9	Network approach to UWB antenna transfer functions characterization <b>2005</b> ,		1
8	An investigation into measurement of handset antennas. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2005</b> , 54, 1100-1110	5.2	49
7	Design of a human-head-equivalent phantom for ISM 2.4-GHz applications. <i>Microwave and Optical Technology Letters</i> , <b>2005</b> , 47, 163-166	1.2	40
6	Broadband suspended plate antennas fed by double L-shaped strips. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2004</b> , 52, 2496-2500	4.9	9
5	Suspended plate antennas with shorting strips and slots. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2004</b> , 52, 2525-2531	4.9	10
4	Considerations for source pulses and antennas in UWB radio systems. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2004</b> , 52, 1739-1748	4.9	195
3	Wideband monopole antennas for multi-band wireless systems. <i>IEEE Antennas and Propagation Magazine</i> , <b>2003</b> , 45, 146-150	1.7	207
2	Experimental study on radiation performance of probe-fed suspended plate antennas. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2003</b> , 51, 1964-1971	4.9	26
1	Network approach to UWB antenna transfer functions characterization		1