Qingsha Cheng

List of Publications by Year
in descending order

172 papers	3,310 citations	218381 26 h-index	155451 55 g-index
172 all docs	172 docs citations	172 times ranked	1170 citing authors

#	Article	IF	Citations
1	Litz Wire and Uninsulated Twisted Wire Assessment Using a Multilevel PEEC Method. IEEE Transactions on Power Electronics, 2022, 37, 2372-2381.	5.4	11
2	Pixel Antenna Optimization Based on Perturbation Sensitivity Analysis. IEEE Transactions on Antennas and Propagation, 2022, 70, 472-486.	3.1	14
3	A Compact SIW Cavity-Backed Self-Multiplexing Antenna for Hexa-Band Operation. IEEE Transactions on Antennas and Propagation, 2022, 70, 2283-2288.	3.1	13
4	A novel compact diplexer employing substrate integrated waveguide loaded by triangular slots for C-band application. Journal of Electromagnetic Waves and Applications, 2022, 36, 830-842.	1.0	4
5	Resonant Manifold Multiplexers. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 1059-1071.	2.9	6
6	Automated Diplexer Design With Key Performance Indicator-Based Objectives. IEEE Microwave and Wireless Components Letters, 2022, 32, 827-830.	2.0	2
7	A shielded QMSIW ultra-compact self-diplexing antenna for WiMAX/WLAN applications. Journal of Electromagnetic Waves and Applications, 2022, 36, 1869-1881.	1.0	4
8	A Microwave Filter Yield Optimization Method Based on Off-Line Surrogate Model-Assisted Evolutionary Algorithm. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 2925-2934.	2.9	12
9	Multiport Pixel Antenna Optimization Using Characteristic Mode Analysis and Sequential Feeding Port Search. IEEE Transactions on Antennas and Propagation, 2022, 70, 9160-9174.	3.1	7
10	K-Means-Based Multigroup Differential Evolution Optimization Framework for Design of MIMO Antenna With Decoupling Elements. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 1980-1984.	2.4	1
11	Macromodeling of Reconfigurable Intelligent Surface Based on Microwave Network Theory. IEEE Transactions on Antennas and Propagation, 2022, 70, 8707-8717.	3.1	11
12	A superstrate loaded aperture coupled dual-band circularly polarized dielectric resonator antenna for X-band communications. International Journal of Microwave and Wireless Technologies, 2021, 13, 867-874.	1.5	6
13	Surrogate-Assisted Quasi-Newton Enhanced Global Optimization of Antennas Based on a Heuristic Hypersphere Sampling. IEEE Transactions on Antennas and Propagation, 2021, 69, 2993-2998.	3.1	33
14	Yield-Constrained Optimization Design Using Polynomial Chaos for Microwave Filters. IEEE Access, 2021, 9, 22408-22416.	2.6	28
15	A Shielded-QMSIW-Based Self-Diplexing Antenna for Closely Spaced Bands and High Isolation. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 2382-2386.	2.4	20
16	A Benchmark Test Suite for Antenna S-Parameter Optimization. IEEE Transactions on Antennas and Propagation, 2021, 69, 6635-6650.	3.1	16
17	A Compact Substrate Integrated Self-Diplexing Antenna for WiFi and ISM Band Applications. , 2021, , .		1
18	Compact dual-band SIW filters loaded with double ring D-shaped resonators for sub-6â€‰GHz applications. Journal of Electromagnetic Waves and Applications, 2021, 35, 923-936.	1.0	6

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19	Threeâ€phase adaptive differential evolution for antenna array synthesis. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2021, 34, e2871.	1.2	0
20	Gaussian Process Regression Modeling Based on Landmark Isometric Feature Mapping for Antennas. , 2021, , .		1
21	<scp>Lowâ€cost</scp> surrogate modeling of antennas using <scp>twoâ€level</scp> Gaussian process regression method. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2021, 34, e2886.	1.2	4
22	A compact dual-fed highly isolated SIW based self-diplexing antenna. AEU - International Journal of Electronics and Communications, 2021, 132, 153613.	1.7	7
23	Design of Compact Substrate Integrated Waveguide Based Triple- and Quad-Band Power Dividers. IEEE Microwave and Wireless Components Letters, 2021, 31, 365-368.	2.0	24
24	Design and experimental verification of compact dual-band SIW power dividers with arbitrary power division. Frequenz, 2021, 75, 313-318.	0.6	2
25	Design and Experimental Validation of Highly Compact Branch-Line Balun For Quad-Band Applications. , 2021, , .		0
26	A miniaturized quad-band branch-line crossover for GSM/WiFi/5G/WLAN applications. AEU - International Journal of Electronics and Communications, 2021, 134, 153611.	1.7	1
27	Quad-Band Impedance Transformer for Extremely High Load Impedance Matching with Out-of-Band Spurious Response Suppression. , 2021, , .		1
28	Quad-Band Impedance Transformer for Extremely High Load Impedance Matching with Out-of-Band Spurious Response Suppression. , 2021, , .		1
29	An Efficient Optimization Scheme for MIMO Antenna Decoupling Networks Using Space Mapping Techniques. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2021, 6, 56-61.	1.4	5
30	Early Warning of Incipient Faults for Power Transformer Based on DGA Using a Two-Stage Feature Extraction Technique. IEEE Transactions on Power Delivery, 2021, , 1-1.	2.9	1
31	Feature-based Surrogate-assisted Harris Hawks Optimization Algorithm for Microwave Filters. , 2021, , .		1
32	Highly Miniaturized Self-Diplexed U-Shaped Slot Antenna Based on Shielded QMSIW. IEEE Access, 2021, 9, 158926-158935.	2.6	10
33	Fast Design of Multilayered Shields Using Surrogate Model and Space Mapping. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 698-706.	1.4	3
34	Pixel Antenna Optimization Using N -Port Characteristic Mode Analysis. IEEE Transactions on Antennas and Propagation, 2020, 68, 3336-3347.	3.1	26
35	Design of dual mode wideband <scp>SIW</scp> slot antenna for <scp>5G</scp> applications. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22449.	0.8	6
36	Triple non-covalent dynamic interactions enabled a tough and rapid room temperature self-healing elastomer for next-generation soft antennas. Journal of Materials Chemistry A, 2020, 8, 25073-25084.	5.2	32

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37	A compact substrate integrated waveguide backed selfâ€quadruplexing antenna for Câ€band communication. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22366.	0.8	16
38	Automated Spiral Inductor Design by a Calibrated PI Network with Manifold Mapping Technique. , 2020, , .		1
39	Design of a compact orthogonal fed selfâ€diplexing bowtieâ€ring slot antenna based on substrate integrated waveguide. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22422.	0.8	18
40	Miniaturized SIW filter using D-shaped resonators with wide out-of-band rejection for 5G applications. Journal of Electromagnetic Waves and Applications, 2020, 34, 2397-2409.	1.0	10
41	Deep Multi-path Low-Light Image Enhancement. , 2020, , .		4
42	Design of Miniaturized SIW Filter Loaded with Open-Loop Resonators and Its Application to Diplexer. Radioengineering, 2020, 29, 609-616.	0.3	1
43	Fast Simulation of Litz Wire Using Multilevel PEEC Method. IEEE Transactions on Power Electronics, 2020, 35, 12612-12616.	5.4	11
44	An offâ€centerâ€fed compact wideband antenna with truncated corners and parasitic patches for circular polarization. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22244.	0.8	2
45	An inline pseudoelliptic selfâ€packaging substrate integrated suspended line filter with mixed electric and magnetic coupling. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22281.	0.8	0
46	Comprehensive transient analysis for low-voltage system in a wind turbine under direct lightning. International Journal of Electrical Power and Energy Systems, 2020, 121, 106131.	3.3	16
47	Compact high-isolation self-diplexing antenna based on SIW for C-band applications. Journal of Electromagnetic Waves and Applications, 2020, 34, 960-974.	1.0	28
48	Design of a Compact SIW Diplexer with Square Cavities for C-Band Applications. , 2020, , .		2
49	A Compact Triple-Fed High-Isolation SIW-Based Self-Triplexing Antenna. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 766-770.	2.4	31
50	Surrogate Model-Based Space Mapping in Postfabrication Bandpass Filtersâ€™ Tuning. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 2172-2182.	2.9	30
51	An Efficient Hybrid Sampling Method for Neural Network-Based Microwave Component Modeling and Optimization. IEEE Microwave and Wireless Components Letters, 2020, 30, 625-628.	2.0	51
52	Highly miniaturized wideband 3â€dB branchâ€line hybrid with second harmonicâ€suppression. Microwave and Optical Technology Letters, 2020, 62, 2248-2256.	0.9	1
53	A General Coupling Matrix Synthesis Method for All-Resonator Diplexers and Multiplexers. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 987-999.	2.9	15
54	A Compact SIW Power Divider for Dual-Band Applications. Radioengineering, 2020, 29, 94-100.	0.3	4

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55	Surrogate-Assisted Enhanced Global Optimization Based on Hybrid DE for Antenna Design. , 2020, , .		2
56	Metamodels and Iterative Design Correction for Rapid Optimization of Compact Microwave Components. , 2020, , .		0
57	Antenna Modeling by Nested Kriging with Automated Domain Thickness Determination. , 2020, , .		0
58	Implementation of Project-Based Learning in Teaching an Antenna and Wave Propagation Course. , 2020, , .		3
59	Low-Cost Surrogate Modeling of Compact Microstrip Circuits in Highly-Dimensional Parameters Spaces Using Variable-Fidelity Nested Co-Kriging. , 2020, , .		1
60	Analysis of circular polarization antenna design tradeâ€offs using lowâ€cost EMâ€driven multiobjective optimization. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21483.	0.8	3
61	Multi-Fidelity Local Surrogate Model for Computationally Efficient Microwave Component Design Optimization. Sensors, 2019, 19, 3023.	2.1	15
62	A Generalized SDP Multi-Objective Optimization Method for EM-Based Microwave Device Design. Sensors, 2019, 19, 3065.	2.1	10
63	Dual-frequency-scanning broadband antenna based on Z-shape spoof surface plasmon polaritons. Applied Physics Express, 2019, 12, 084001.	1.1	14
64	Design of A Compact Quad-channel Diplexer using Stepped-Impedance Resonators. , 2019, , .		1
65	Multistage Modeling and Space Mapping for Automated Microwave Filter Design. , 2019, , .		0
66	EM-based Design Approach for Multiband Filters by Reflected Group Delay Method and Cascade Space Mapping. , 2019, , .		1
67	Reconfigurable Metal Chassis Antenna. IEICE Transactions on Communications, 2019, E102.B, 147-155.	0.4	0
68	Non-Invasive Blood Glucose Monitoring Using a Curved Goubau Line. Electronics (Switzerland), 2019, 8, 662.	1.8	19
69	Flexible wideband power divider with high isolation incorporating spoof surface plasmon polaritons transition with graphene flake. Applied Physics Express, 2019, 12, 022008.	1.1	15
70	Doubleâ€layer microstrip ultraâ€wideband filtering power divider with high selectivity and large isolation. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21726.	0.8	2
71	Design of pseudoelliptic filters with controllable transmission zeros using highâ€•Q doubleâ€layer suspended stripline resonators. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21785.	0.8	1
72	Lightning Propagation Analysis on Telecommunication Towers Above the Perfect Ground Using Full-Wave Time Domain PEEC Method. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 697-704.	1.4	6

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73	Microwave Engineering Course for Engineering Education Accreditation: Exploration and Practice in SUSTech. , 2019, , .		0
74	Automatic Impedance Matching for Three-Stub Waveguide Tuner Based on Space Mapping. , 2019, , .		5
75	A Tuning Method for Triple-Stub Tuner using Knowledge-Based Surrogate Model. , 2019, , .		2
76	An Automatic Design Approach for Microstrip Line Impedance Transformer for Triple-Band Application. , 2019, , .		5
77	A compact wideband SIW power divider with CSRR and slots for Ku and K band applications. , 2019, , .		2
78	Aggressive Space Mapping Technique for Reconfigurable Hexagonal Patch Antenna Design. , 2019, , .		0
79	A 3-D Printed E -Plane Waveguide Magic-T Using Air-Filled Coax-to-Waveguide Transitions. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4984-4994.	2.9	42
80	A Post-fabrication Tuning Method using Space Mapping and Surrogate Modeling Techniques. , 2019, , .		2
81	A Dualband Coupling Matrix Method for Designing Quad-channel Diplexer. , 2019, , .		1
82	A Connectorized X-Band 3-D Printed Air-Filled Self-Suspended Rectangular Coaxial Transmission Line. , 2019, , .		3
83	Reduced-Cost Constrained Miniaturization of Wideband Antennas Using Improved Trust-Region Gradient Search With Repair Step. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 559-562.	2.4	8
84	Response features for lowâ€cost statistical analysis and toleranceâ€aware design of antennas. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2018, 31, e2297.	1.2	5
85	Optimization-Driven Antenna Design Framework With Multiple Performance Constraints. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21208.	0.8	16
86	Lightning Transient Analysis of Telecommunication System With a Tubular Tower. IEEE Access, 2018, 6, 60088-60099.	2.6	9
87	Design Trade-Offs of Compact Circular Polarization Antennas by Means of Multi-Objective Optimization. , 2018, , .		0
88	Lightning Current Distribution of the Radio Base Station With a Steel Tower. , 2018, , .		0
89	An Efficient EM-based Ultra-Wideband Bandpass Filter Design. , 2018, , .		0
90	The Sequential Parameter Extraction for EM-based Design of Dielectric-resonator Bandpass Filter. , 2018, , .		0

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91	An EM-Based Cascade Design Procedure for High-Order Bandpass Filter. , 2018, , .		0
92	Frequency-Dependent Implicit Space-Mapping Algorithm for Wideband Microwave Prototyping. , 2018, , .		1
93	A High-Q Miniaturized Suspended Stripline Resonator for Pseudoelliptic Filter Design. IEEE Access, 2018, 6, 64784-64789.	2.6	0
94	Miniaturization of Wideband Antennas by Means of Ground Plane Modifications: A Case Study. , 2018, , .		0
95	Wireless Power Transfer Using an RF Plasma. IEEE Access, 2018, 6, 73905-73915.	2.6	4
96	Miniaturisation of wideband antennas by means of feed line topology alterations. IET Microwaves, Antennas and Propagation, 2018, 12, 2128-2134.	0.7	12
97	Design of A Novel Compact Structure of A Wide-Slot Circularly Polarized Antenna. , 2018, , .		0
98	On ultra-wideband antenna miniaturization involving efficiency and matching constraints. , 2017, , .		5
99	Accelerated multi-objective design optimization of antennas by surrogate modeling and domain segmentation. , 2017, , .		2
100	Pareto ranking bisection algorithm for rapid multi-objective design of antenna structures. , 2017, , .		0
101	EM-driven design of recurrent slow-wave structures. , 2017, , .		0
102	Multi-objective design of miniaturized impedance transformers by domain segmentation. , 2017, , .		0
103	Multi-objective EM-based design optimization of compact branch-line coupler. , 2017, , .		4
104	Conceptual design and automated optimisation of a novel compact UWB MIMO slot antenna. IET Microwaves, Antennas and Propagation, 2017, 11, 1162-1168.	0.7	24
105	A sequentially coupled filter design approach using the reflected group delay method and the implicit space mapping technique. , 2017, , .		4
106	Monitoring blood glucose fluctuation using SIW cavity with a coupling slot. , 2017, , .		0
107	Reflection response control of bandwidth-enhanced antennas through constrained optimization. , 2016, , .		0
108	Fast re-design of antenna structures with respect to substrate permittivity and thickness. , 2016, , .		1

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109	Multi-objective optimization of compact UWB impedance matching transformers using Pareto front exploration and adjoint sensitivities. , 2016, , .		0
110	Geometry scaling of UWB antennas with respect to material properties of the substrate. , 2016, , .		0
111	Reduced-cost modeling of dual-band antennas exploiting response features. , 2016, , .		1
112	Expedited two-objective dimension scaling of compact microwave passives using surrogate models. , 2016, , .		0
113	Patch size setup and performance/cost trade-offs in multi-objective antenna optimization using domain patching technique. , 2016, , .		0
114	Reduced-cost data-driven modeling of antenna structures. , 2016, , .		0
115	Response features for fast EM-driven design of miniaturized impedance matching transformers. , 2016, , .		0
116	On low-cost space mapping optimization of antenna structures. , 2016, , .		1
117	Expedited EM-driven design optimization of compact dual-band microwave couplers using adaptive response scaling. , 2016, , .		0
118	Featureâ€based surrogates for lowâ€cost microwave modelling and optimisation. IET Microwaves, Antennas and Propagation, 2015, 9, 1706-1712.	0.7	11
119	A review of implicit space mapping optimization and modeling techniques. , 2015, , .		7
120	Rapid electromagneticâ€based microwave design optimisation exploiting shapeâ€preserving response prediction and adjoint sensitivities. IET Microwaves, Antennas and Propagation, 2014, 8, 775-781.	0.7	34
121	A maximally flat quadratic interpolation enhanced input space mapping modeling approach. , 2014, , .		0
122	Fast EM Modeling Exploiting Shape-Preserving Response Prediction and Space Mapping. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 399-407.	2.9	66
123	Low-cost feature-based modeling of microwave structures. , 2014, , .		5
124	Reliable Space-Mapping Optimization Integrated With EM-Based Adjoint Sensitivities. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3493-3502.	2.9	215
125	Reducedâ€cost microwave component modeling using space mappingâ€enhanced electromagneticâ€based kriging surrogates. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2013, 26, 275-286.	1.2	13
126	Enhanced fidelity modeling of microwave structures combining shape-preserving response prediction with space mapping. , 2013, , .		1

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127	Tuning Space Mapping. , 2013, , 107-128.		0
128	Space Mapping Optimization of Handset Antennas Exploiting Thin-Wire Models. IEEE Transactions on Antennas and Propagation, 2013, 61, 3797-3807.	3.1	31
129	A statistical input space mapping approach for accommodating modeling residuals. , 2013, , .		3
130	Retrospective on microwave CAD and optimization technology. , 2012, , .		0
131	Space mapping design exploiting library antenna models. , 2012, , .		1
132	Robust space mapping optimization exploiting EM-based models with adjoint sensitivities. , 2012, , .		7
133	A space mapping schematic for fast EM-based modeling and design. , 2012, , .		4
134	Tuning space mapping: The state of the art. International Journal of RF and Microwave Computer-Aided Engineering, 2012, 22, 639-651.	0.8	16
135	Comparative study of space-mapping-based techniques for microwave design optimisation. IET Microwaves, Antennas and Propagation, 2012, 6, 361.	0.7	1
136	Accelerating Space Mapping Optimization with Adjoint Sensitivities. IEEE Microwave and Wireless Components Letters, 2011, 21, 280-282.	2.0	20
137	Electromagnetics-based CAD and optimization of microwave circuits exploiting time-domain techniques. , 2011, , .		0
138	Constrained parameter extraction for microwave design optimisation using implicit space mapping. IET Microwaves, Antennas and Propagation, 2011, 5, 1156.	0.7	40
139	Tuning space mapping design framework exploiting reduced electromagnetic models. IET Microwaves, Antennas and Propagation, 2011, 5, 1219.	0.7	29
140	Electromagnetics-based CAD and optimization of microwave circuits exploiting time-domain techniques. , 2011, , .		0
141	Fast space mapping modeling with adjoint sensitivity. , 2011, , .		4
142	Fast space mapping modeling with adjoint sensitivity. , 2011, , .		2
143	Implicit space mapping with adaptive selection of preassigned parameters. IET Microwaves, Antennas and Propagation, 2010, 4, 361.	0.7	22
144	Rapid design optimisation of microwave structures through automated tuning space mapping. IET Microwaves, Antennas and Propagation, 2010, 4, 1892.	0.7	5

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145	Space Mapping Design Framework Exploiting Tuning Elements. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 136-144.	2.9	43
146	Robust Trust-Region Space-Mapping Algorithms for Microwave Design Optimization. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2166-2174.	2.9	78
147	The state of the art of microwave CAD: EM-based optimization and modeling. International Journal of RF and Microwave Computer-Aided Engineering, 2010, 20, 475-491.	0.8	31
148	Response corrected tuning space mapping for yield estimation and design centering. , 2010, , .		2
149	Progress in Simulator-Based Tuningâ€"The Art of Tuning Space Mapping [Application Notes. IEEE Microwave Magazine, 2010, 11, 96-110.	0.7	48
150	Adaptively constrained parameter extraction for robust space mapping optimization of microwave circuits. , 2010, , .		3
151	Response corrected tuning space mapping for yield estimation and design centering. , 2010, , .		0
152	Adaptively constrained parameter extraction for robust space mapping optimization of microwave circuits. , 2010, , .		3
153	Trust-region-based convergence safeguards for space mapping design optimization of microwave circuits. , 2009, , .		7
154	Tuning space mapping optimization exploiting embedded surrogate elements. , 2009, , .		9
155	Accelerated Microwave Design Optimization With Tuning Space Mapping. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 383-394.	2.9	130
156	A Simple ADS Schematic for Space Mapping. , 2009, , .		1
157	Tuning-aided implicit space mapping. International Journal of RF and Microwave Computer-Aided Engineering, 2008, 18, 445-453.	0.8	19
158	Space mapping. IEEE Microwave Magazine, 2008, 9, 105-122.	0.7	300
159	Adaptive space mapping with convergence enhancement for optimization of microwave structures and devices. , 2008, , .		1
160	Tuning space mapping: A novel technique for engineering design optimization. , 2008, , .		16
161	Combining Coarse and Fine Models for Optimal Design. IEEE Microwave Magazine, 2008, 9, 79-88.	0.7	35
162	Improving Efficiency of Space Mapping Optimization of Microwave Structures and Devices. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	5

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163	Simplified space-mapping approach to enhancement of microwave device models. International Journal of RF and Microwave Computer-Aided Engineering, 2006, 16, 518-535.	0.8	77
164	An Implicit Space Mapping Technique for Component Modeling. , 2006, , .		10
165	Implementable space mapping approach to enhancement of microwave device models. , 2005, , .		5
166	A Space-Mapping Design Framework. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 2601-2610.	2.9	36
167	Space Mapping: The State of the Art. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 337-361.	2.9	871
168	Implicit Space Mapping Optimization Exploiting Preassigned Parameters. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 378-385.	2.9	172
169	Implicit space mapping EM-based modeling and design exploiting preassigned parameters. , 0, , .		6
170	EM-based surrogate modeling and design exploiting implicit, frequency and output space mappings. , 0, , .		51
171	Design and implementation of compact tri- and quad-band SIW power divider using modified circular complementary split-ring resonators. International Journal of Microwave and Wireless Technologies, 0, , 1-9.	1.5	0
172	Compact HMSIW diplexer loaded with modified circular complementary split ring resonators for WiMAX /WLAN applications. Journal of Electromagnetic Waves and Applications, 0, , 1-16.	1.0	1