Dimitrios Peroulis

List of Publications by Year
in descending order

Version: 2024-02-01

406	6,521	76294	110317
papers	citations	40 h-index	64 g-index

407	407	407	4138
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanohybrids of a MXene and transition metal dichalcogenide for selective detection of volatile organic compounds. Nature Communications, 2020, 11, 1302.	5.8	294
2	Surface Functionalization of Ti₃C₂T_x MXene with Highly Reliable Superhydrophobic Protection for Volatile Organic Compounds Sensing. ACS Nano, 2020, 14, 11490-11501.	7.3	247
3	A hierarchical manifold microchannel heat sink array for high-heat-flux two-phase cooling of electronics. International Journal of Heat and Mass Transfer, 2018, 117, 319-330.	2.5	231
4	Design of Highly Efficient Broadband Class-E Power Amplifier Using Synthesized Low-Pass Matching Networks. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 3162-3173.	2.9	224
5	Design of Broadband Highly Efficient Harmonic-Tuned Power Amplifier Using In-Band Continuous Class-${hbox{F}}^{-1}/{hbox{F}}$ Mode Transferring. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 4107-4116.	2.9	179
6	High-Q Fully Reconfigurable Tunable Bandpass Filters. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 3525-3533.	2.9	163
7	High-Q Tunable Microwave Cavity Resonators and Filters Using SOI-Based RF MEMS Tuners. Journal of Microelectromechanical Systems, 2010, 19, 774-784.	1.7	156
8	Single/multi-band Wilkinson-type power dividers with embedded transversal filtering sections and application to channelized filters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1518-1527.	3.5	99
9	Low-frequency meandering piezoelectric vibration energy harvester. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 846-858.	1.7	94
10	Characterization of hierarchical manifold microchannel heat sink arrays under simultaneous background and hotspot heating conditions. International Journal of Heat and Mass Transfer, 2018, 126, 1289-1301.	2.5	91
11	Highly Loaded Evanescent Cavities for Widely Tunable High-Q Filters. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	85
12	Theory and Design of Octave Tunable Filters With Lumped Tuning Elements. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 4353-4364.	2.9	78
13	A Tunable Bandpass-to-Bandstop Reconfigurable Filter With Independent Bandwidths and Tunable Response Shape. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 3770-3779.	2.9	77
14	Switchless Tunable Bandstop-to-All-Pass Reconfigurable Filter. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 1258-1265.	2.9	76
15	A Microresonator Design Based on Nonlinear 1â€‰:â€‰2 Internal Resonance in Flexural Structural Modes. Journal of Microelectromechanical Systems, 2009, 18, 744-762.	1.7	75
16	A 6-Gb/s Wireless Inter-Chip Data Link Using 43-GHz Transceivers and Bond-Wire Antennas. IEEE Journal of Solid-State Circuits, 2009, 44, 2711-2721.	3.5	75
17	Co-Design of Highly Efficient Power Amplifier and High-Q Output Bandpass Filter. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3940-3950.	2.9	72
18	Frequency response of atmospheric pressure gas breakdown in micro/nanogaps. Applied Physics Letters, 2013, 103, .	1.5	61

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19	New Bandstop Filter Circuit Topology and Its Application to Design of a Bandstop-to-Bandpass Switchable Filter. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1114-1123.	2.9	59
20	Design of Adaptive Highly Efficient GaN Power Amplifier for Octave-Bandwidth Application and Dynamic Load Modulation. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 1829-1839.	2.9	58
21	Pre-breakdown evaluation of gas discharge mechanisms in microgaps. Applied Physics Letters, 2013, 102, .	1.5	56
22	A 3.1-GHz Class-F Power Amplifier With 82% Power-Added-Efficiency. IEEE Microwave and Wireless Components Letters, 2013, 23, 436-438.	2.0	55
23	Hybrid Low-Power Wide-Area Mesh Network for IoT Applications. IEEE Internet of Things Journal, 2021, 8, 901-915.	5.5	54
24	Liquid RF MEMS Wideband Reflective and Absorptive Switches. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2919-2929.	2.9	53
25	Multi-Stub-Loaded Differential-Mode Planar Multiband Bandpass Filters. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 271-275.	2.2	52
26	Dynamics of a nonlinear microresonator based onÂresonantly interacting flexural-torsional modes. Nonlinear Dynamics, 2008, 54, 31-52.	2.7	50
27	Isolating Bandpass Filters Using Time-Modulated Resonators. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 2331-2345.	2.9	49
28	DNA counterion current and saturation examined by a MEMS-based solid state nanopore sensor. Biomedical Microdevices, 2006, 8, 263-269.	1.4	48
29	Tunable Inter-Resonator Coupling Structure With Positive and Negative Values and Its Application to the Field-Programmable Filter Array (FPFA). IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 3389-3400.	2.9	47
30	Reconfigurable Single/Multi-Band Filtering Power Divider Based on Quasi-Bandpass Sections. IEEE Microwave and Wireless Components Letters, 2016, 26, 684-686.	2.0	47
31	Tuned to Resonance: Transfer-Function-Adaptive Filters in Evanescent-Mode Cavity-Resonator Technology. IEEE Microwave Magazine, 2014, 15, 55-69.	0.7	46
32	Hybrid Acoustic-Wave-Lumped-Element Resonators (AWLRs) for High-<formula formulatype="inline"><tex Notation="TeX">Q</tex> </formula> Bandpass Filters With Quasi-Elliptic Frequency Response. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2233-2244.	2.9	44
33	A High-Power Widely Tunable Limiter Utilizing an Evanescent-Mode Cavity Resonator Loaded With a Gas Discharge Tube. IEEE Transactions on Plasma Science, 2016, 44, 3271-3280.	0.6	44
34	Novel Dual-Band Microwave Filter Using Dual-Capacitively-Loaded Cavity Resonators. IEEE Microwave and Wireless Components Letters, 2010, 20, 610-612.	2.0	43
35	Power Handling of Electrostatic MEMS Evanescent-Mode (EVA) Tunable Bandpass Filters. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 270-283.	2.9	43
36	Quasi-Elliptic Multi-Band Filters With Center-Frequency and Bandwidth Tunability. IEEE Microwave and Wireless Components Letters, 2016, 26, 192-194.	2.0	42

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37	Tunable SIW Cavity-Based Dual-Mode Diplexers With Various Single-Ended and Balanced Ports. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 1238-1248.	2.9	42
38	Bandpassâ€“Bandstop Filter Cascade Performance Over Wide Frequency Tuning Ranges. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 3945-3953.	2.9	41
39	Co-Design of Multi-Band High-Efficiency Power Amplifier and Three-Pole High-Q Tunable Filter. IEEE Microwave and Wireless Components Letters, 2013, 23, 647-649.	2.0	41
40	Extended Passband Bandstop Filter Cascade With Continuous 0.85â€“6.6-GHz Coverage. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 21-30.	2.9	40
41	Handling RF Power: The Latest Advances in RF-MEMS Tunable Filters. IEEE Microwave Magazine, 2013, 14, 24-38.	0.7	39
42	Characterizing multi-way interference in wireless mesh networks. , 2006, , .		38
43	Tunable VHF Miniaturized Helical Filters. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 282-289.	2.9	38
44	Fully-Reconfigurable Bandpass/Bandstop Filters and Their Coupling-Matrix Representation. IEEE Microwave and Wireless Components Letters, 2016, 26, 22-24.	2.0	38
45	High temperature dynamic viscosity sensor for engine oil applications. Sensors and Actuators A: Physical, 2012, 173, 102-107.	2.0	36
46	Fully Adaptive Multiband Bandstop Filtering Sections and Their Application to Multifunctional Components. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4405-4418.	2.9	35
47	RF Wide-Band Bandpass Filter With Dynamic In-Band Multi-Interference Suppression Capability. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 898-902.	2.2	34
48	Design, Fabrication, and Characterization of a Compact Hierarchical Manifold Microchannel Heat Sink Array for Two-Phase Cooling. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 1291-1300.	1.4	34
49	A Yagiâ€“Uda Array of High-Efficiency Wire-Bond Antennas for On-Chip Radio Applications. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 3315-3321.	2.9	33
50	Tunable MEMS Spiral Inductors With Optimized RF Performance and Integrated Large-Displacement Electrothermal Actuators. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 2276-2283.	2.9	32
51	All-Silicon Technology for High-Q Evanescent Mode Cavity Tunable Resonators and Filters. Journal of Microelectromechanical Systems, 2014, 23, 727-739.	1.7	31
52	Design and characterization of a low frequency 2-dimensional magnetic levitation kinetic energy harvester. Sensors and Actuators A: Physical, 2015, 236, 1-10.	2.0	31
53	Dispersion Limitations of Ultra-Wideband Wireless Links and Their Compensation Via Photonically Enabled Arbitrary Waveform Generation. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 710-719.	2.9	30
54	A 3.4 – 6.2 GHz Continuously tunable electrostatic MEMS resonator with quality factor of 460–530. , 2009, , .		30

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55	Theory and Design of Frequency-Tunable Absorptive Bandstop Filters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 1862-1874.	3.5	30
56	Intersecting Parallel-Plate Waveguide Loaded Cavities for Dual-Mode and Dual-Band Filters. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1829-1838.	2.9	29
57	Design and Optimization of Tunable Silicon-Integrated Evanescent-Mode Bandpass Filters. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 1790-1803.	2.9	29
58	Tunable Cavity-Based Diplexer With Spectrum-Aware Automatic Tuning. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 934-944.	2.9	28
59	An Electronically Tunable High-Power Impedance Tuner With Integrated Closed-Loop Control. IEEE Microwave and Wireless Components Letters, 2017, 27, 754-756.	2.0	28
60	Non-Toxic Liquid-Metal 2-100 GHz MEMS Switch. , 2007, , .		27
61	Evaporative intrachip hotspot cooling with a hierarchical manifold microchannel heat sink array. , 2016, , .		27
62	Multilayered Reflectionless Wideband Bandpass Filters With Shunt/In-Series Resistively Terminated Microstrip Lines. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 877-893.	2.9	27
63	A 6 to 24 GHz continuously tunable, microfabricated, high-Q cavity resonator with electrostatic MEMS actuation. , 2012, , .		26
64	Wireless Temperature Sensor for Condition Monitoring of Bearings Operating Through Thick Metal Plates. IEEE Sensors Journal, 2013, 13, 2292-2298.	2.4	26
65	Plasma-Enabled Tuning of a Resonant RF Circuit. IEEE Transactions on Plasma Science, 2016, 44, 1396-1404.	0.6	26
66	Single and Multiband Acoustic-Wave-Lumped- Element-Resonator (AWLR) Bandpass Filters With Reconfigurable Transfer Function. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4394-4404.	2.9	25
67	Highâ€power impedance tuner utilising substrateâ€integrated evanescentâ€mode cavity technology and external linear actuators. IET Microwaves, Antennas and Propagation, 2019, 13, 2067-2072.	0.7	25
68	Early-Warning Wireless Telemeter for Harsh-Environment Bearings. , 2007, , .		24
69	An Experimental and Theoretical Investigation of Creep in Ultrafine Crystalline Nickel RF-MEMS Devices. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2655-2664.	2.9	24
70	A Wireless Condition Monitoring System Powered by a Sub-100 muW Vibration Energy Harvester. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1082-1093.	3.5	24
71	Microwave Gas Breakdown in Tunable Evanescent-Mode Cavity Resonators. IEEE Microwave and Wireless Components Letters, 2014, 24, 351-353.	2.0	23
72	A Flexible Quadrature Coupler With Reconfigurable Frequency and Coupling Ratio in Switchable Coupling Direction. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3391-3402.	2.9	23

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73	High-Performance Tunable Narrowband SIW Cavity-Based Quadrature Hybrid Coupler. IEEE Microwave and Wireless Components Letters, 2019, 29, 41-43.	2.0	23
74	Time-Domain Measurement of the Frequency-Dependent Delay of Broadband Antennas. IEEE Transactions on Antennas and Propagation, 2008, 56, 39-47.	3.1	22
75	Antibiased Electrostatic RF MEMS Varactors and Tunable Filters. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 3971-3981.	2.9	21
76	Tunable high-isolation W-band bandstop filters. , 2015, , .		21
77	High-Q Tunable Evanescent-Mode Cavity SIW Resonators and Filters With Contactless Tuners. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3661-3672.	2.9	21
78	High-efficiency wire bond antennas for on-chip radios. , 2009, , .		20
79	Energy-Efficient Transmission for Beamforming in Wireless Sensor Networks. , 2010, , .		20
80	Integrated Systems in the More-Than-Moore Era: Designing Low-Cost Energy-Efficient Systems Using Heterogeneous Components. IEEE Design and Test, 2016, 33, 56-65.	1.1	20
81	Fullyâ€tunable filtering power dividers exploiting dynamic transmissionâ€zero allocation. IET Microwaves, Antennas and Propagation, 2017, 11, 378-385.	0.7	20
82	Estimating the In-Plane Young's Modulus of Polycrystalline Films in MEMS. Journal of Microelectromechanical Systems, 2012, 21, 840-849.	1.7	19
83	Acoustic-Wave-Lumped-Element-Resonator Filters With Equi-Ripple Absorptive Stopbands. IEEE Microwave and Wireless Components Letters, 2016, 26, 177-179.	2.0	19
84	A Quasi-Absorptive Microwave Resonant Plasma Switch for High-Power Applications. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3798-3806.	2.9	19
85	Electrostatic Liquid-Metal Capacitive Shunt MEMS Switch. , 2006, , .		18
86	High-power microwave gas discharge in high-Q evanescent-mode cavity resonators and its instantaneous/long-term effects. , 2013, , .		18
87	Estimating residual stress, curvature and boundary compliance of doubly clamped MEMS from their vibration response. Journal of Micromechanics and Microengineering, 2013, 23, 045009.	1.5	18
88	Octave tunable lumped-element notch filter with resonator-Q-independent zero reflection coefficient. , 2014, , .		18
89	Coupling-Matrix-Based Design of High-<formula formulatype="inline"><tex Notation="TeX">Q</tex></formula> Bandpass Filters Using Acoustic-Wave Lumped-Element Resonator (AWLR) Modules. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 4319-4328.	2.9	18
90	Ultra-Compact Tunable Filtering Rat-Race Coupler Based on Half-Mode SIW Evanescent-Mode Cavity Resonators. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5563-5572.	2.9	18

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91	Selective Detection of Ethylene by MoS₂â€“Carbon Nanotube Networks Coated with Cu(I)â€“Pincer Complexes. ACS Sensors, 2020, 5, 1699-1706.	4.0	18
92	In-situ control of tunable evanescent-mode cavity filters using differential mode monitoring. , 2009, , .		17
93	Energy efficient collaborative beamforming in wireless sensor networks. , 2009, , .		17
94	Energy-efficient data dissemination using beamforming in wireless sensor networks. ACM Transactions on Sensor Networks, 2013, 9, 1-30.	2.3	17
95	A 23–35 GHz MEMS tunable all-silicon cavity filter with stability characterization up to 140 million cycles. , 2014, , .		17
96	High-Selectivity Tunable Filters With Dual-Mode SIW Resonators in an L-Shaped Coupling Scheme. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 5016-5028.	2.9	17
97	Context-Aware Collaborative Intelligence With Spatio-Temporal In-Sensor-Analytics for Efficient Communication in a Large-Area IoT Testbed. IEEE Internet of Things Journal, 2021, 8, 6800-6814.	5.5	17
98	A capacitively-loaded MEMS Slot element for wireless temperature sensing of up to 300°C. , 2009, , .		16
99	Tunable bandstop filter with a 17-to-1 upper passband. , 2012, , .		16
100	Real-Time Feedback Control System for Tuning Evanescent-Mode Cavity Filters. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 2804-2813.	2.9	16
101	Tunable Constant-Bandwidth Substrate-Integrated Bandstop Filters. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 157-169.	2.9	16
102	Mixed Lumped and Distributed Circuits in Wideband Bandpass Filter Application for Spurious-Response Suppression. IEEE Microwave and Wireless Components Letters, 2018, 28, 978-980.	2.0	16
103	Multifunctional Bandpass Filters With Reconfigurable and Switchable Band Control. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 2355-2369.	2.9	16
104	Time-Varying Matching Networks for Signal-Centric Systems. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2599-2613.	2.9	15
105	Contribution of ions in radio frequency properties of atmospheric pressure microgaps. Applied Physics Letters, 2014, 105, .	1.5	15
106	Series-cascaded absorptive notch-filters for 4G-LTE radios. , 2015, , .		15
107	Reconfigurable Multiband Bandpass Filters in Evanescent-Mode-Cavity-Resonator Technology. IEEE Microwave and Wireless Components Letters, 2017, 27, 248-250.	2.0	15
108	Silicon Micromachined Packages for RF MEMS Switches. , 2001, , .		14

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109	A viscoelastic-aware experimentally-derived model for analog RF MEMS varactors. , 2010, , .		14
110	Power handling of high-Q evanescent-mode tunable filter with integrated piezoelectric actuators. , 2012, , .		14
111	Millimeterâ€wave phase shifter based on waveguideâ€mounted RFâ€MEMS. Microwave and Optical Technology Letters, 2013, 55, 465-468.	0.9	14
112	Acoustic Wave Resonator-Based Absorptive Bandstop Filters With Ultra-Narrow Bandwidth. IEEE Microwave and Wireless Components Letters, 2015, 25, 570-572.	2.0	14
113	High- <inline-formula> <tex-math notation="LaTeX">Q</tex-math></inline-formula> Bandstop Filters Exploiting Acoustic-Wave-Lumped-Element Resonators (AWLRs). IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 79-83.	2.2	14
114	Tune-All RF Planar Duplexers With Intrinsically Switched Channels. IEEE Microwave and Wireless Components Letters, 2017, 27, 350-352.	2.0	14
115	A widely-tunable substrate-integrated balun filter. , 2017, , .		14
116	An inherently-robust 300°C MEMS temperature sensor for wireless health monitoring of ball and rolling element bearings. , 2009, , .		13
117	Thermal and Electrical Conductivities of Nanocrystalline Nickel Microbridges. Journal of Microelectromechanical Systems, 2012, 21, 850-858.	1.7	13
118	A novel high-Q<inf>u</inf> octave-tunable resonator with lumped tuning elements. , 2013, , .		13
119	High-Q intrinsically-switched quasi-absorptive tunable bandstop filter with electrically-short resonators. , 2014, , .		13
120	Highly Linear and Highly Efficient Dual-Carrier Power Amplifier Based on Low-Loss RF Carrier Combiner. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 590-599.	2.9	13
121	Dynamic Bandpass Filter Shape and Interference Cancellation Control Utilizing Bandpassâ€“Bandstop Filter Cascade. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2526-2539.	2.9	13
122	A class of fully-reconfigurable planar multi-band bandstop filters. , 2016, , .		13
123	Low-pressure gas sensor exploiting the Knudsen thermal force: DSMC modeling and experimental validation. , 2016, , .		13
124	Wide-passband filters with in-band tunable notches for agile multi-interference suppression in broad-band antenna systems. , 2018, , .		13
125	Planar Multifrequency Wideband Bandpass Filters With Constant and Frequency Mappings. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 935-942.	2.9	13
126	A Novel Independently-Tunable Dual-Mode SIW Resonator with a Reconfigurable Bandpass Filter Application. , 2018, , .		13

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127	Fast Frequency-Agile Real-Time Optimization of High-Power Tuning Network for Cognitive Radar Applications. , 2019, , .		13
128	A Flexible Virtual Battery: A Wearable Wireless Energy Harvester. IEEE Microwave Magazine, 2019, 20, 62-69.	0.7	13
129	Fast Optimization Algorithm for Evanescent-Mode Cavity Tuner Optimization and Timing Reduction in Software-Defined Radar Implementation. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 2762-2778.	2.6	13
130	On-chip bond-wire antennas on CMOS-grade silicon substrates. , 2008, , .		12
131	A single-crystal silicon DC-40 GHz RF MEMS switch. , 2009, , .		12
132	High Q narrow-band tunable filters with controllable bandwidth. , 2009, , .		12
133	Tunable, substrate integrated, high Q filter cascade for high isolation. , 2010, , .		12
134	Impact of Mechanical Vibration on the Performance of RF MEMS Evanescent-Mode Tunable Resonators. IEEE Microwave and Wireless Components Letters, 2011, 21, 406-408.	2.0	12
135	Direct measurement of field emission current in E-static MEMS structures. , 2011, , .		12
136	Low-Order Filter Response Enhancement in Reconfigurable Resonator Arrays. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 4387-4395.	2.9	12
137	A Tunable Miniaturized RF MEMS Resonator With Simultaneous High <formula formulatype="inline"><tex Notation="TeX">Q</tex></formula> (500–735) and Fast Response Speed <formula formulatype="inline"><tex Notation="TeX">$(<hbox{10}-hbox{60} muhbox{s})$</tex></formula>. Journal of Microelectromechanical Systems, 2013, 22, 395-405.	1.7	12
138	Vâ€band bandpass filter with continuously variable centre frequency. IET Microwaves, Antennas and Propagation, 2013, 7, 701-707.	0.7	12
139	A Compact L-Band Bandpass Filter with RF MEMS-Enabled Reconfigurable Notches for Interference Rejection in GPS Applications. IEEE Microwave Magazine, 2015, 16, 81-88.	0.7	12
140	A PCB Technology-Based 22â€“42-GHz Quasi-Absorptive Bandstop Filter. IEEE Microwave and Wireless Components Letters, 2018, 28, 975-977.	2.0	12
141	A Wearable Real-Time CMOS Dosimeter With Integrated Zero-Bias Floating Gate Sensor and an 861-nW 18-Bit Energy-Resolution Scalable Time-Based Radiation to Digital Converter. IEEE Journal of Solid-State Circuits, 2020, 55, 650-665.	3.5	12
142	Bandpass Filter With Tunable/Switchable In-Band Interference Rejection. IEEE Microwave and Wireless Components Letters, 2021, 31, 1115-1118.	2.0	12
143	A Fiber-Free DC-7 GHz 35 W Integrated Semiconductor Plasma Switch. , 2021, , .		12
144	An Evanescent-mode Cavity Resonator Based Thermal Sensor. , 2007, , .		11

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145	Radiating sensor selection for distributed beamforming in wireless sensor networks. , 2008, , .		11
146	A Phenomenological Discrete Brittle Damage-Mechanics Model for Fatigue of MEMS Devices With Application to LIGA Ni. Journal of Microelectromechanical Systems, 2009, 18, 119-128.	1.7	11
147	A 12–18 GHz electrostatically tunable liquid metal RF MEMS resonator with quality factor of 1400–1840. , 2011, , .		11
148	A CAD Model for Creep Behavior of RF-MEMS Varactors and Circuits. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1761-1768.	2.9	11
149	Uncertainty in microscale gas damping: Implications on dynamics of capacitive MEMS switches. Reliability Engineering and System Safety, 2011, 96, 1171-1183.	5.1	11
150	Widely Tunable High-Efficiency Power Amplifier With Ultra-Narrow Instantaneous Bandwidth. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3787-3797.	2.9	11
151	Wide spurious free range positive-to-negative inter-resonator coupling structure for reconfigurable filters. , 2013, , .		11
152	Multiple Timescales and Modeling of Dynamic Bounce Phenomena in RF MEMS Switches. Journal of Microelectromechanical Systems, 2014, 23, 137-146.	1.7	11
153	A 20â€“40 GHz tunable MEMS bandpass filter with enhanced stability by gold-vanadium micro-corrugated diaphragms. , 2016, , .		11
154	Signal-interference bandpass filters with dynamic in-band interference suppression. , 2016, , .		11
155	Recent advances in reconfigurable microwave filter design. , 2016, , .		11
156	Wireless Sensor Network Utilizing Flexible Nitrate Sensors for Smart Farming. , 2019, , .		11
157	Alleviating the Adverse Effects of Residual Stress in RF MEMS Switches. , 2001, , .		10
158	Cyclic evolution of bouncing for contacts in commercial RF MEMS switches. , 2012, , .		10
159	Reconfigurable bandpass filter with center frequency and bandwidth control. Microwave and Optical Technology Letters, 2013, 55, 2745-2750.	0.9	10
160	High-Q MEMS-tunable W-band bandstop resonators. , 2014, , .		10
161	Transformers with incorporated filtering capabilities exploiting signal-interference principles. , 2015, , .		10
162	A VHF tunable lumped-element filter with mixed electric-magnetic couplings. , 2015, , .		10

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163	Time-varying matching network for antennas in pulse-based systems. , 2007, , .		9
164	Low-Cost 3-D Integration of RF and Micro-Cooling Systems. , 2008, , .		9
165	Tunable high Q narrow-band triplexer. , 2009, , .		9
166	RF Design, Power Handling, and Hot Switching of Waveguide Water-Based Absorptive Switches. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 2038-2046.	2.9	9
167	Reconfigurable-order bandpass filter for frequency agile systems. , 2010, , .		9
168	A wireless sensor node for condition monitoring powered by a vibration energy harvester. , 2011, , .		9
169	High-Q tunable bandstop filters with adaptable bandwidth and pole allocation. , 2011, , .		9
170	Design of broadband high-efficiency power amplifier using in-band Class-F^{−1}/F mode-transferring technique. , 2012, , .		9
171	An Analytical Capacitance Model of Temperature-Sensitive, Large-Displacement Multimorph Cantilevers: Numerical and Experimental Validation. Journal of Microelectromechanical Systems, 2012, 21, 161-170.	1.7	9
172	Vibration mitigation for evanescent-mode cavity filters. , 2014, , .		9
173	Dark-to-arc transition in field emission dominated atmospheric microdischarges. Physics of Plasmas, 2015, 22, .	0.7	9
174	Hybrid surfaceâ€acousticâ€wave/microstrip signalâ€interference bandpass filters. IET Microwaves, Antennas and Propagation, 2016, 10, 426-434.	0.7	9
175	Design of an airline coax radial power combiner with enhanced isolation. , 2017, , .		9
176	Frequency-Selective Limiters Using Triple-Mode Filters. IEEE Access, 2020, 8, 114854-114863.	2.6	9
177	A high-efficiency low-cost wire-bond loop antenna for CMOS wafers. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	8
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