

# Dimitrios Peroulis

## 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.

327  
papers

4,325  
citations

33  
h-index

51  
g-index

407  
ext. papers

5,470  
ext. citations

3.2  
avg, IF

6.16  
L-index

#	Paper	IF	Citations
327	High-Q High Power Tunable Filters Manufactured With Injection Molding Technology. <i>IEEE Access</i> , <b>2022</b> , 10, 19643-19653	3.5	1
326	2-8 GHz Interference Detector With 1.1 ns Response. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2022</b> , 1-4	2.6	
325	A Fiber-Free DC-7 GHz 35 W Integrated Semiconductor Plasma Switch <b>2021</b> ,		3
324	A Photogenerated Silicon Plasma Waveguide Switch and Variable Attenuator for Millimeter-Wave Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2021</b> , 1-1	4.1	1
323	Plasma Switch-Based Technology for High-Speed and High-Power Impedance Tuning <b>2021</b> ,		1
322	. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 6800-6814	10.7	4
321	Instinctual Interference-Adaptive Low-Power Receiver With Combined Feedforward and Feedback Control. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2021</b> , 31, 771-774	2.6	2
320	Hybrid Low-Power Wide-Area Mesh Network for IoT Applications. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 901-915	10.7	21
319	Microwave Wireless Powering of Sensored Agricultural Tile Drainages. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 2913-2920	4.9	1
318	A Compact Octave Tunable Switched-Power-Combining PA. <i>IEEE Access</i> , <b>2021</b> , 9, 15212-15220	3.5	0
317	Bandpass Filter With Tunable/Switchable In-Band Interference Rejection. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2021</b> , 1-1	2.6	2
316	Dual-Band Dual-Mode Filter-Enhanced Linearity Measurement. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2021</b> , 31, 1083-1085	2.6	3
315	Selective Detection of Ethylene by MoS-Carbon Nanotube Networks Coated with Cu(I)-Pincer Complexes. <i>ACS Sensors</i> , <b>2020</b> , 5, 1699-1706	9.2	7
314	Nanohybrids of a MXene and transition metal dichalcogenide for selective detection of volatile organic compounds. <i>Nature Communications</i> , <b>2020</b> , 11, 1302	17.4	129
313	Design and Optimization of Bidirectional Tunable MEMS All-Silicon Evanescent-Mode Cavity Filter. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2020</b> , 68, 2398-2408	4.1	4
312	High-Isolation Resistorless Tunable Filtering Power Divider <b>2020</b> ,		1
311	Frequency-Selective Limiters Using Triple-Mode Filters. <i>IEEE Access</i> , <b>2020</b> , 8, 114854-114863	3.5	5

310	A Hybrid Low-Cost Bandpass Filter With SAW Resonators and External Lumped Inductors Using a Dual-Coupling Scheme. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2020</b> , 68, 2289-2299	4.1	2
309	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2020</b> , 56, 2762-2778	3.7	7
308	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. <i>IEEE Journal of Solid-State Circuits</i> , <b>2020</b> , 55, 650-665	5.5	6
307	Multilayered Reflectionless Wideband Bandpass Filters With Shunt/In-Series Resistively Terminated Microstrip Lines. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2020</b> , 68, 877-893	4.1	15
306	Plasma-Based Power Limitation for Highly Linear MEMS Switch Protection and Isolation Enhancement. <i>IEEE Access</i> , <b>2020</b> , 8, 173103-173111	3.5	0
305	Surface Functionalization of TiCT MXene with Highly Reliable Superhydrophobic Protection for Volatile Organic Compounds Sensing. <i>ACS Nano</i> , <b>2020</b> , 14, 11490-11501	16.7	101
304	High-Selectivity Tunable Filters With Dual-Mode SIW Resonators in an L-Shaped Coupling Scheme. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2019</b> , 67, 5016-5028	4.1	6
303	Reflectionless Wideband Bandpass Filter Designed With Multilayered Microstrip Vertical Transition <b>2019</b> ,		2
302	Electrically-Coupled Goubau-Line-Based Wireless Power Transfer System. <i>IEEE Access</i> , <b>2019</b> , 7, 115886-115900	13.5	1
301	A New Reconfigurable Bandpass Filter With Adaptive Resonators for Switchable Passband and In-Band Notch <b>2019</b> ,		1
300	Balanced-Balanced Tunable Filtering LNA using Evanescent-Mode Resonators <b>2019</b> ,		1
299	Fast Frequency-Agile Real-Time Optimization of High-Power Tuning Network for Cognitive Radar Applications <b>2019</b> ,		7
298	A 2.2 B.4 GHz Constant Bandwidth High-Selectivity Tunable Filter Based on Dual-Mode SIW Resonators <b>2019</b> ,		1
297	<b>2019</b> ,		1
296	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2019</b> , 67, 2355-2369	4.1	7
295	An Evanescent-Mode Cavity-Backed High-Power Tunable Slot Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 3712-3719	4.9	2
294	Isolating Bandpass Filters Using Time-Modulated Resonators. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2019</b> , 67, 2331-2345	4.1	24
293	. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2019</b> , 9, 1291-1300	1.7	16

292	High- $Q$ Tunable Evanescent-Mode Cavity SIW Resonators and Filters With Contactless Tuners. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2019</b> , 67, 3661-3672	4.1	12
291	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2019</b> , 67, 3391-3402	4.1	13
290	A 2026.5-GHz PCB Bandpass Filter Tuned With Contactless Tuners. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2019</b> , 29, 513-515	2.6	6
289	High-power impedance tuner utilising substrate-integrated evanescent-mode cavity technology and external linear actuators. <i>IET Microwaves, Antennas and Propagation</i> , <b>2019</b> , 13, 2067-2072	1.6	13
288	Wireless Sensor Network Utilizing Flexible Nitrate Sensors for Smart Farming <b>2019</b> ,		7
287	High-Performance Tunable Narrowband SIW Cavity-Based Quadrature Hybrid Coupler. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2019</b> , 29, 41-43	2.6	18
286	A Flexible Virtual Battery: A Wearable Wireless Energy Harvester. <i>IEEE Microwave Magazine</i> , <b>2019</b> , 20, 62-69	1.2	9
285	An L-Band Low Phase Noise Evanescent-Mode Cavity-Based Frequency Synthesizer. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2018</b> , 65, 2161-2168	3.9	5
284	Theory and Design of Frequency-Tunable Absorptive Bandstop Filters. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2018</b> , 65, 1862-1874	3.9	21
283	Wide-passband filters with in-band tunable notches for agile multi-interference suppression in broad-band antenna systems <b>2018</b> ,		8
282	Design and Optimization of Tunable Silicon-Integrated Evanescent-Mode Bandpass Filters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 1790-1803	4.1	17
281	Tunable Constant-Bandwidth Substrate-Integrated Bandstop Filters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 157-169	4.1	13
280	Tunable SIW Cavity-Based Dual-Mode Diplexers With Various Single-Ended and Balanced Ports. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 1238-1248	4.1	31
279	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 2199-2209	4.1	5
278	. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2018</b> , 65, 271-275	3.5	38
277	. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2018</b> , 65, 898-902	3.5	24
276	Planar Multifrequency Wideband Bandpass Filters With Constant and Frequency Mappings. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 935-942	4.1	4
275	A hierarchical manifold microchannel heat sink array for high-heat-flux two-phase cooling of electronics. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 117, 319-330	4.9	124

274	Multi-Point Wireless Temperature Sensing System for Monitoring Pharmaceutical Lyophilization. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 288	5	2
273	Fast impedance matching using interval halving of resonator position numbers for a high-power evanescent-mode cavity tuner <b>2018</b> ,		2
272	Mid-Range Wireless Power Transfer Based on Goubau Lines <b>2018</b> ,		2
271	A 2.2-2.2 GHz low-loss tunable bandpass filter based on low cost manufacturing of ABS polymer <b>2018</b> ,		3
270	Characterization of hierarchical manifold microchannel heat sink arrays under simultaneous background and hotspot heating conditions. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 126, 1289-1301	4-9	44
269	Hybrid Bandpass-Absorptive-Bandstop Magnetically Coupled Acoustic-Wave-Lumped-Element-Resonator Filters. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2018</b> , 28, 582-584	2.6	5
268	Tunable Filter Technologies for 5G Communications <b>2018</b> ,		1
267	Ultra-Compact Tunable Filtering Rat-Race Coupler Based on Half-Mode SIW Evanescent-Mode Cavity Resonators. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 5563-5572	4.1	13
266	A PCB Technology-Based 22-22-GHz Quasi-Absorptive Bandstop Filter. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2018</b> , 28, 975-977	2.6	9
265	Monitoring and Control of MEMS Tunable Filters Using Inductive Proximity Sensing. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 5605-5613	4.1	6
264	Mixed Lumped and Distributed Circuits in Wideband Bandpass Filter Application for Spurious-Response Suppression. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2018</b> , 28, 978-980	2.6	10
263	<b>2018</b> ,		2
262	Real-Time Frequency-Agile $\mathit{Circuit}$ Reconfiguration for S-Band Radar Using a High-Power Tunable Resonant Cavity Matching Network <b>2018</b> ,		2
261	A Compact Tunable Filtering Rat-Race Coupler <b>2018</b> ,		3
260	A Novel Independently-Tunable Dual-Mode SIW Resonator with a Reconfigurable Bandpass Filter Application <b>2018</b> ,		9
259	Real-time temperature compensation for tunable cavity-based BPFs and BSFs. <i>IET Circuits, Devices and Systems</i> , <b>2018</b> , 12, 785-791	1.1	
258	A Quasi-Absorptive Microwave Resonant Plasma Switch for High-Power Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 3798-3806	4.1	12
257	Balanced octave-tunable absorptive bandstop filter <b>2018</b> ,		5

256	Simultaneous analog tuning of the series- and anti-resonances of acoustic wave resonators <b>2018</b> ,		3
255	Reconfigurable Multiband Bandpass Filters in Evanescent-Mode-Cavity-Resonator Technology. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2017</b> , 27, 248-250	2.6	11
254	An Adaptive Educational Web Application for Engineering Students. <i>IEEE Access</i> , <b>2017</b> , 5, 359-365	3.5	5
253	Fully-tunable filtering power dividers exploiting dynamic transmission-zero allocation. <i>IET Microwaves, Antennas and Propagation</i> , <b>2017</b> , 11, 378-385	1.6	18
252	Tune-All RF Planar Duplexers With Intrinsically Switched Channels. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2017</b> , 27, 350-352	2.6	11
251	Tunable Cavity-Based Diplexer With Spectrum-Aware Automatic Tuning. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2017</b> , 65, 934-944	4.1	19
250	Single/multi-band multi-functional passive components with reconfiguration capabilities <b>2017</b> ,		2
249	A substrate-integrated-waveguide dual-band bandpass filter based on signal-interference principles <b>2017</b> ,		1
248	Design of an airline coax radial power combiner with enhanced isolation <b>2017</b> ,		6
247	Tunable absorptive bandstop filter with an ultra-broad upper passband <b>2017</b> ,		4
246	A tunable 0.86–1.03 GHz FDD wireless communication system with an evanescent-mode diplexer and a self-interference-cancelling receiver <b>2017</b> ,		3
245	An Electronically Tunable High-Power Impedance Tuner With Integrated Closed-Loop Control. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2017</b> , 27, 754-756	2.6	20
244	SAW-based bandpass filters with flat in-band group delay and enhanced fractional bandwidth <b>2017</b> ,		5
243	RF design of acoustic-wave-lumped-element-resonator-(AWLER)-based bandpass filters with constant in-band group delay <b>2017</b> ,		4
242	Dual-passband filters and extended-stopband wide-band bandpass filters based on generalized stub-loaded planar circuits <b>2017</b> ,		3
241	An S-band 3-W load-reconfigurable power amplifier with 50% efficiency for VSWR up to 4:1 <b>2017</b> ,		1
240	A 1940 GHz bi-directional MEMS tunable all silicon evanescent-mode cavity filter <b>2017</b> ,		2
239	A widely-tunable substrate-integrated balun filter <b>2017</b> ,		8

238	Multi-resonant acoustic-wave-lumped-element resonators (AWLRs) for multi-band bandpass filters with enhanced fractional bandwidth <b>2017</b> ,		2
237	Temperature-compensated open-loop tuning of a dual-notch absorptive bandstop filter <b>2017</b> ,		1
236	3D MOS-capacitor-based ionizing radiation sensors <b>2017</b> ,		3
235	Integrated Systems in the More-Than-Moore Era: Designing Low-Cost Energy-Efficient Systems Using Heterogeneous Components. <i>IEEE Design and Test</i> , <b>2016</b> , 33, 56-65	1.4	15
234	Temperature-compensated lumped element tunable bandpass filter <b>2016</b> ,		2
233	A high-Q octave-tunable all-silicon cavity filter using magnetostatic actuation <b>2016</b> ,		1
232	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2016</b> , 64, 4394-4404	4.1	18
231	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2016</b> , 64, 4405-4418	4.1	30
230	Octave-tunable constant absolute bandwidth bandstop filter utilizing a novel passively-compensated coupling method <b>2016</b> ,		7
229	Design and implementation of an intrinsically-switched 22-3 GHz tunable bandstop filter <b>2016</b> ,		6
228	Gas discharge tube-based variable RF attenuator <b>2016</b> ,		3
227	Recent advances in reconfigurable microwave filter design <b>2016</b> ,		7
226	Digital representation of multi-functional microwave passive circuits <b>2016</b> ,		1
225	Fully-Reconfigurable Bandpass/Bandstop Filters and Their Coupling-Matrix Representation. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2016</b> , 26, 22-24	2.6	34
224	High- $Q$ Bandstop Filters Exploiting Acoustic-Wave-Lumped-Element Resonators (AWLRs). <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2016</b> , 63, 79-83	3.5	12
223	A High-Performance Pathway: a 0.95/2.45-GHz Switched-Frequency Bandpass Filter Using Commercially Available RF MEMS Tuning Elements. <i>IEEE Microwave Magazine</i> , <b>2016</b> , 17, 34-41	1.2	2
222	Acoustic-Wave-Lumped-Element-Resonator Filters With Equi-Ripple Absorptive Stopbands. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2016</b> , 26, 177-179	2.6	14
221	Quasi-Elliptic Multi-Band Filters With Center-Frequency and Bandwidth Tunability. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2016</b> , 26, 192-194	2.6	28

220	Low-pressure gas sensor exploiting the Knudsen thermal force: DSMC modeling and experimental validation <b>2016</b> ,		10
219	Field emission mitigation in X-band silicon-etched cavity resonators <b>2016</b> ,		2
218	. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 3271-3280	1.3	25
217	A 200 GHz tunable MEMS bandpass filter with enhanced stability by gold-vanadium micro-corrugated diaphragms <b>2016</b> ,		8
216	Characterization of fading of a MOS-based sensor for occupational radiation dosimetry <b>2016</b> ,		2
215	Tunable acoustic-wave-lumped-element resonator (awlr)-based bandpass filters <b>2016</b> ,		4
214	Low temperature plasma for tunable resonant attenuation <b>2016</b> ,		3
213	Power limiting characteristics of a plasma-loaded evanescent-mode cavity resonator <b>2016</b> ,		2
212	Substrate-integrated-waveguide signal-interference bandpass filters <b>2016</b> ,		1
211	An ANT-based low-power battery-free wireless cryogenic temperature probes for industrial process monitoring <b>2016</b> ,		1
210	V-band frequency reconfigurable cavity-based bandpass filters <b>2016</b> ,		3
209	A tunable VHF gas discharge tube resonator <b>2016</b> ,		2
208	Signal-interference bandpass filters with dynamic in-band interference suppression <b>2016</b> ,		7
207	Electrical properties of creep-resistant nanocrystalline gold-vanadium thin films at millimeter-wave frequencies <b>2016</b> ,		2
206	Hybrid surface-acoustic-wave/microstrip signal-interference bandpass filters. <i>IET Microwaves, Antennas and Propagation</i> , <b>2016</b> , 10, 426-434	1.6	8
205	MEMS-tunable silicon-integrated cavity filters <b>2016</b> ,		1
204	Authors' Reply to Comments on Design of Highly Efficient Broadband Class-E Power Amplifier Using Synthesized Low-Pass Matching Networks. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2016</b> , 64, 1679-1679	4.1	1
203	Reconfigurable Single/Multi-Band Filtering Power Divider Based on Quasi-Bandpass Sections. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2016</b> , 26, 684-686	2.6	36



202	<b>2016,</b>		15
201	Adaptive-transfer-function bandpass filters using reconfigurable evanescent-mode-cavity resonator cascades <b>2016,</b>		4
200	A class of fully-reconfigurable planar multi-band bandstop filters <b>2016,</b>		9
199	Multi-band signal-interference planar bandpass filters based on stub-loaded transversal filtering sections <b>2016,</b>		1
198	A constant-transfer-function widely-tunable VHF modular field-programmable filter array (FPFA) with IIP3 of 3852 dBm <b>2016,</b>		1
197	Plasma-Enabled Tuning of a Resonant RF Circuit. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 1396-1403		16
196	Real-Time Feedback Control System for Tuning Evanescent-Mode Cavity Filters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2016</b> , 64, 2804-2813	4.1	15
195	Reconfigurable single/multi-band planar impedance transformers with incorporated bandpass filtering functionality <b>2016,</b>		4
194	Hybrid Acoustic-Wave-Lumped-Element Resonators (AWLRs) for High- $Q$ Bandpass Filters With Quasi-Elliptic Frequency Response. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2015</b> , 63, 2233-2244	4.1	26
193	Series-cascaded absorptive notch-filters for 4G-LTE radios <b>2015,</b>		14
192	A VHF tunable lumped-element filter with mixed electric-magnetic couplings <b>2015,</b>		5
191	Thermally Stable Nonuniform Microcorrugated Capacitive MEMS Tuner. <i>Journal of Microelectromechanical Systems</i> , <b>2015</b> , 24, 522-524	2.5	2
190	An equation-based nonlinear model for non-flat MEMS fixed-fixed beams with non-vertical anchoring supports. <i>Journal of Micromechanics and Microengineering</i> , <b>2015</b> , 25, 055018	2	4
189	A Compact L-Band Bandpass Filter with RF MEMS-Enabled Reconfigurable Notches for Interference Rejection in GPS Applications. <i>IEEE Microwave Magazine</i> , <b>2015</b> , 16, 81-88	1.2	9
188	Variable-output charge-pump for piezoelectric and electrostatic tunable RF filters <b>2015,</b>		3
187	Acoustic Wave Resonator-Based Absorptive Bandstop Filters With Ultra-Narrow Bandwidth. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2015</b> , 25, 570-572	2.6	13
186	Advances in high-Q tunable filter technologies. <i>International Journal of Advances in Engineering Sciences and Applied Mathematics</i> , <b>2015</b> , 7, 170-176	0.6	3
185	Dynamic Bandpass Filter Shape and Interference Cancellation Control Utilizing Bandpass-Bandstop Filter Cascade. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2015</b> , 63, 2526-2539	4.1	9

184	. <i>Journal of Microelectromechanical Systems</i> , <b>2015</b> , 24, 1803-1816	2.5	3
183	Sharp-rejection highpass and dual-band bandpass planar filters with multi-transmission-zero-generation transversal cell <b>2015</b> ,		3
182	High-Q bandpass filters using hybrid acoustic-wave-lumped-element resonators (AWLRs) for UHF applications <b>2015</b> ,		1
181	A class of planar multi-band Wilkinson-type power divider with intrinsic filtering functionality <b>2015</b> ,		4
180	RF-design of narrowband absorptive bandstop filters for UHF applications <b>2015</b> ,		4
179	Analog signal-interference narrow-band bandpass filters with hybrid transmission-line/SAW-resonator transversal filtering sections <b>2015</b> ,		4
178	Spectrum-aware jammer suppression using evanescent-mode cavity filters <b>2015</b> ,		3
177	Dark-to-arc transition in field emission dominated atmospheric microdischarges. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 083508	2.1	7
176	MOS-capacitor-based ionizing radiation sensors for occupational dosimetry applications <b>2015</b> ,		4
175	Creep-resistant nanocrystalline gold-vanadium alloyed microcorrugated diaphragms (MCDS) <b>2015</b> ,		2
174	Development of 60 GHz evanescent-mode two-pole low-loss tunable bandpass filter. <i>Microwave and Optical Technology Letters</i> , <b>2015</b> , 57, 2418-2422	1.2	
173	Single/multi-band Wilkinson-type power dividers with embedded transversal filtering sections and application to channelized filters. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2015</b> , 62, 1518-1527	3.9	75
172	. <i>Journal of Microelectromechanical Systems</i> , <b>2015</b> , 24, 1487-1494	2.5	3
171	Silicon-micromachined spacers for UHF cavity resonators <b>2015</b> ,		4
170	Tunable high-isolation W-band bandstop filters <b>2015</b> ,		17
169	<b>2015</b> ,		1
168	<b>2015</b> ,		2
167	Miniaturized signal-interference planar filters <b>2015</b> ,		2

166	Coupling-Matrix-Based Design of High-Q Bandpass Filters Using Acoustic-Wave Lumped-Element Resonator (AWLR) Modules. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2015</b> , 63, 4319-4328 <sup>4.1</sup>	4.1	15
165	Design and characterization of a low frequency 2-dimensional magnetic levitation kinetic energy harvester. <i>Sensors and Actuators A: Physical</i> , <b>2015</b> , 236, 1-10	3.9	17
164	Transformers with incorporated filtering capabilities exploiting signal-interference principles <b>2015</b> ,		7
163	Design of high-Q absorptive bandstop filters with static and reconfigurable attenuation <b>2015</b> ,		4
162	Bandwidth enlargement in acoustic-wave RF bandpass filters with planar transversal circuits <b>2015</b> ,		1
161	Wearable, wireless sensor platform for occupational radiation dosimetry applications <b>2015</b> ,		3
160	. <i>Journal of Microelectromechanical Systems</i> , <b>2014</b> , 23, 972-979	2.5	3
159	Multiple Timescales and Modeling of Dynamic Bounce Phenomena in RF MEMS Switches. <i>Journal of Microelectromechanical Systems</i> , <b>2014</b> , 23, 137-146	2.5	7
158	Microwave Gas Breakdown in Tunable Evanescent-Mode Cavity Resonators. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2014</b> , 24, 351-353	2.6	16
157	Tunable VHF Miniaturized Helical Filters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2014</b> , 62, 282-289	4.1	24
156	Tuned to Resonance: Transfer-Function-Adaptive Filters in Evanescent-Mode Cavity-Resonator Technology. <i>IEEE Microwave Magazine</i> , <b>2014</b> , 15, 55-69	1.2	38
155	Highly Linear and Highly Efficient Dual-Carrier Power Amplifier Based on Low-Loss RF Carrier Combiner. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2014</b> , 62, 590-599	4.1	9
154	All-Silicon Technology for High-Q Evanescent Mode Cavity Tunable Resonators and Filters. <i>Journal of Microelectromechanical Systems</i> , <b>2014</b> , 23, 727-739	2.5	25
153	Real-time DC-dynamic biasing method for switching time improvement in severely underdamped fringing-field electrostatic MEMS actuators. <i>Journal of Visualized Experiments</i> , <b>2014</b> , e51251	1.6	1
152	Vibration mitigation for evanescent-mode cavity filters <b>2014</b> ,		6
151	High-Q MEMS-tunable W-band bandstop resonators <b>2014</b> ,		9
150	Nano-plasma tunable evanescent-mode cavity resonators <b>2014</b> ,		4
149	A 23.85 GHz MEMS tunable all-silicon cavity filter with stability characterization up to 140 million cycles <b>2014</b> ,		2

148	Contribution of ions in radio frequency properties of atmospheric pressure microgaps. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 253105	3.4	12
147	(Invited) An X-Band Class-E Power Amplifier with MEMS Output Impedance Tuner. <i>ECS Transactions</i> , <b>2014</b> , 60, 1121-1126	1	
146	Octave tunable lumped-element notch filter with resonator-Q-independent zero reflection coefficient <b>2014</b> ,		17
145	High-Q intrinsically-switched quasi-absorptive tunable bandstop filter with electrically-short resonators <b>2014</b> ,		11
144	Application of ball bearing cage RF temperature sensor in high speed turbocharger <b>2014</b> ,		2
143	Testing Techniques for Shock Accelerometers below 10,000 g. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2014</b> , 333-340	0.3	1
142	A 3.1-GHz Class-F Power Amplifier With 82% Power-Added-Efficiency. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2013</b> , 23, 436-438	2.6	36
141	Intersecting Parallel-Plate Waveguide Loaded Cavities for Dual-Mode and Dual-Band Filters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2013</b> , 61, 1829-1838	4.1	19
140	Frequency response of atmospheric pressure gas breakdown in micro/nanogaps. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 063102	3.4	47
139	Co-Design of Highly Efficient Power Amplifier and High- $Q$ Output Bandpass Filter. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2013</b> , 61, 3940-3950	4.1	48
138	Co-Design of Multi-Band High-Efficiency Power Amplifier and Three-Pole High- $Q$ Tunable Filter. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2013</b> , 23, 647-649	2.6	33
137	Wireless temperature sensor for mechanical face seals using permanent magnets. <i>Sensors and Actuators A: Physical</i> , <b>2013</b> , 203, 369-372	3.9	4
136	Reconfigurable bandpass filter with center frequency and bandwidth control. <i>Microwave and Optical Technology Letters</i> , <b>2013</b> , 55, 2745-2750	1.2	9
135	Theory and Design of Octave Tunable Filters With Lumped Tuning Elements. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2013</b> , 61, 4353-4364	4.1	55
134	Low-Order Filter Response Enhancement in Reconfigurable Resonator Arrays. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2013</b> , 61, 4387-4395	4.1	11
133	A polarization-reconfigurable filtering antenna system: a visual approach to investigating the bandwidth of transmission lines with non-z0 impedance [education column]. <i>IEEE Antennas and Propagation Magazine</i> , <b>2013</b> , 55, 197-235	1.7	3
132	A novel high- $Q$ octave-tunable resonator with lumped tuning elements <b>2013</b> ,		3
131	In situ monitoring of dynamic bounce phenomena in RF MEMS switches. <i>Journal of Micromechanics and Microengineering</i> , <b>2013</b> , 23, 115007	2	2

130	Lifetime effects of drive voltage for a commercially-available ohmic-contact RF MEMS switch <b>2013</b> ,		1
129	Wide spurious free range positive-to-negative inter-resonator coupling structure for reconfigurable filters <b>2013</b> ,		9
128	Wireless Temperature Sensor for Condition Monitoring of Bearings Operating Through Thick Metal Plates. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 2292-2298	4	18
127	A visual approach to investigating the bandwidth of transmission lines with non-Z0 impedance. <i>IEEE Antennas and Propagation Magazine</i> , <b>2013</b> , 55, 220-235	1.7	1
126	. <i>IEEE Microwave Magazine</i> , <b>2013</b> , 14, 24-38	1.2	29
125	Millimeter-wave phase shifter based on waveguide-mounted RF-MEMS. <i>Microwave and Optical Technology Letters</i> , <b>2013</b> , 55, 465-468	1.2	11
124	. <i>Journal of Microelectromechanical Systems</i> , <b>2013</b> , 22, 395-405	2.5	8
123	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2013</b> , 60, 1082-1093	3.9	21
122	. <i>Journal of Microelectromechanical Systems</i> , <b>2013</b> , 22, 225-235	2.5	1
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120	Pre-breakdown evaluation of gas discharge mechanisms in microgaps. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 174102	3.4	49
119	New Bandstop Filter Circuit Topology and Its Application to Design of a Bandstop-to-Bandpass Switchable Filter. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2013</b> , 61, 1114-1123	4.1	45
118	Wireless chip-to-chip communication in three-dimensional integrated circuits using microbump antennas <b>2013</b> ,		3
117	Energy-efficient data dissemination using beamforming in wireless sensor networks. <i>ACM Transactions on Sensor Networks</i> , <b>2013</b> , 9, 1-30	2.9	10
116	V-band bandpass filter with continuously variable centre frequency. <i>IET Microwaves, Antennas and Propagation</i> , <b>2013</b> , 7, 701-707	1.6	11
115	Continuously variable W-band phase shifters based on MEMS-actuated conductive fingers. <i>International Journal of Microwave and Wireless Technologies</i> , <b>2013</b> , 5, 477-489	0.8	2
114	Wireless temperature and vibration sensor for real-time bearing condition monitoring <b>2013</b> ,		4
113	High-power microwave gas discharge in high-Q evanescent-mode cavity resonators and its instantaneous/long-term effects <b>2013</b> ,		9

112	Near-Contact Gas Damping and Dynamic Response of High-g MEMS Accelerometer Beams. <i>Journal of Microelectromechanical Systems</i> , <b>2013</b> , 22, 1089-1099	2.5	6
111	Estimating residual stress, curvature and boundary compliance of doubly clamped MEMS from their vibration response. <i>Journal of Micromechanics and Microengineering</i> , <b>2013</b> , 23, 045009	2	14
110	Implementing wireless communication links in 3-D ICs utilizing wide-band on-chip meandering microbump antenna <b>2013</b> ,		2
109	High temperature dynamic viscosity sensor for engine oil applications. <i>Sensors and Actuators A: Physical</i> , <b>2012</b> , 173, 102-107	3.9	24
108	. <i>Journal of Microelectromechanical Systems</i> , <b>2012</b> , 21, 161-170	2.5	8
107	Extended Passband Bandstop Filter Cascade With Continuous 0.85-6-GHz Coverage. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2012</b> , 60, 21-30	4.1	35
106	Power Handling of Electrostatic MEMS Evanescent-Mode (EVA) Tunable Bandpass Filters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2012</b> , 60, 270-283	4.1	37
105	Switchless Tunable Bandstop-to-All-Pass Reconfigurable Filter. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2012</b> , 60, 1258-1265	4.1	53
104	Low-frequency meandering piezoelectric vibration energy harvester. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2012</b> , 59, 846-58	3.2	76
103	. <i>Journal of Microelectromechanical Systems</i> , <b>2012</b> , 21, 840-849	2.5	17
102	Wireless Temperature Sensor Operating in Complete Metallic Environment Using Permanent Magnets. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 4413-4416	2	8
101	Thermal and Electrical Conductivities of Nanocrystalline Nickel Microbridges. <i>Journal of Microelectromechanical Systems</i> , <b>2012</b> , 21, 850-858	2.5	12
100	Design of Adaptive Highly Efficient GaN Power Amplifier for Octave-Bandwidth Application and Dynamic Load Modulation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2012</b> , 60, 1829-1839	4.1	48
99	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2012</b> , 60, 3787-3797	4.1	8
98	A 6 to 24 GHz continuously tunable, microfabricated, high-Q cavity resonator with electrostatic MEMS actuation <b>2012</b> ,		21
97	Power handling of high-Q evanescent-mode tunable filter with integrated piezoelectric actuators <b>2012</b> ,		11
96	Design of broadband high-efficiency power amplifier using in-band Class-F <sub>1</sub> /F mode-transferring technique <b>2012</b> ,		4
95	Cyclic evolution of bouncing for contacts in commercial RF MEMS switches <b>2012</b> ,		6

94	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2012</b> , 60, 4107-4116	4.1	120
93	<b>2012</b> ,		5
92	Tunable bandpass and bandstop filter cascade for dynamic pole allocation <b>2012</b> ,		3
91	Wideband diode-based reconfigurable matching network operating at 36 dBm input power <b>2012</b> ,		1
90	Tunable bandstop filter with a 17-to-1 upper passband <b>2012</b> ,		14
89	Non-linear effects in MEMS tunable bandstop filters <b>2012</b> ,		5
88	RF-MEMS enabled power divider with arbitrary power division ratio <b>2012</b> ,		3
87	Design of Highly Efficient Broadband Class-E Power Amplifier Using Synthesized Low-Pass Matching Networks. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2011</b> , 59, 3162-3173	4.1	145
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85	A 12.8 GHz electrostatically tunable liquid metal RF MEMS resonator with quality factor of 1400. <b>2011</b> ,		1
84	System-level characterization of bias noise effects on electrostatic RF MEMS tunable filters <b>2011</b> ,		1
83	<b>2011</b> ,		1
82	Uncertainty Quantification of Pull-In Phenomenon in Capacitive RF-MEMS <b>2011</b> ,		2
81	A CAD Model for Creep Behavior of RF-MEMS Varactors and Circuits. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2011</b> , 59, 1761-1768	4.1	8
80	Corrections to A Yagi-Uda Array of High-Efficiency Wire-Bond Antennas for On-Chip Radio Applications [Dec 09 3315-3321]. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2011</b> , 59, 1895-1895	4.1	1
79	Direct measurement of field emission current in E-static MEMS structures <b>2011</b> ,		7
78	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2011</b> , 59, 323-337	4.1	1
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75	An Experimental and Theoretical Investigation of Creep in Ultrafine Crystalline Nickel RF-MEMS Devices. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2011</b> , 59, 2655-2664	4.1	16
74	Uncertainty in microscale gas damping: Implications on dynamics of capacitive MEMS switches. <i>Reliability Engineering and System Safety</i> , <b>2011</b> , 96, 1171-1183	6.3	11
73	High-Q tunable bandstop filters with adaptable bandwidth and pole allocation <b>2011</b> ,		1
72	MEMS-Based Power Gating for Highly Scalable Periodic and Event-Driven Processing <b>2011</b> ,		1
71	Frequency-agile field-programmable filter array (FPFA) with multiple functionalities <b>2011</b> ,		1
70	Arrays of silicon cantilevers for detecting high-G rapidly varying acceleration profiles <b>2010</b> ,		6
69	. <i>Journal of Microelectromechanical Systems</i> , <b>2010</b> , 19, 1490-1502	2.5	6
68	Real-time monitoring of contact behavior of RF MEMS switches with a very low power CMOS capacitive sensor interface <b>2010</b> ,		3
67	Phase difference and frequency offset estimation for collaborative beamforming in sensor networks <b>2010</b> ,		1
66	CMOS-based monitoring of contact events up to 4 MHz in ohmic RF MEMS switches <b>2010</b> ,		1
65	Bandpass/Bandstop Filter Cascade Performance Over Wide Frequency Tuning Ranges. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 3945-3953	4.1	34
64	A Tunable Bandpass-to-Bandstop Reconfigurable Filter With Independent Bandwidths and Tunable Response Shape. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 3770-3779	4.1	56
63	Tunable, substrate integrated, high Q filter cascade for high isolation <b>2010</b> ,		8
62	Antibiased Electrostatic RF MEMS Varactors and Tunable Filters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 3971-3981	4.1	17
61	. <i>Journal of Microelectromechanical Systems</i> , <b>2010</b> , 19, 774-784	2.5	130
60	Reconfigurable-order bandpass filter for frequency agile systems <b>2010</b> ,		5
59	Anti-biased RF MEMS varactor topology for 20dB linearity enhancement <b>2010</b> ,		3



58	A viscoelastic-aware experimentally-derived model for analog RF MEMS varactors <b>2010</b> ,		10
57	An experimental investigation on viscoelastic behavior in tunable planar RF-MEMS resonators <b>2010</b> ,		5
56	<b>2010</b> ,		3
55	Bearing cage telemeter for the detection of shaft imbalance in rotating systems <b>2010</b> ,		3
54	<b>2010</b> ,		14
53	Novel Dual-Band Microwave Filter Using Dual-Capacitively-Loaded Cavity Resonators. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2010</b> , 20, 610-612	2.6	32
52	Analysis and Measurement of a Time-Varying Matching Scheme for Pulse-Based Receivers With High- $Q$ Sources. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 2231-2243	4.1	4
51	Tunable high $Q$ narrow-band triplexer <b>2009</b> ,		7
50	Nano-switch for study of gold contact behavior <b>2009</b> ,		3
49	Power handling capability of High- $Q$ evanescent-mode RF MEMS resonators with flexible diaphragm <b>2009</b> ,		4
48	A high-efficiency low-cost wire-bond loop antenna for CMOS wafers. <i>Digest / IEEE Antennas and Propagation Society International Symposium</i> , <b>2009</b> ,		6
47	Experimental quantification of temperature uncertainty for an array of thermally-sensitive MEMS cantilever beams <b>2009</b> ,		1
46	High-efficiency wire bond antennas for on-chip radios <b>2009</b> ,		14
45	Fully electronic method for quantifying the post-release gap-height uncertainty of capacitive RF MEMS switches <b>2009</b> ,		5
44	A single-crystal silicon DC-40 GHz RF MEMS switch <b>2009</b> ,		10
43	High $Q$ narrow-band tunable filters with controllable bandwidth <b>2009</b> ,		7
42	A capacitively-loaded MEMS Slot element for wireless temperature sensing of up to 300°C <b>2009</b> ,		10
41	RF Design, Power Handling, and Hot Switching of Waveguide Water-Based Absorptive Switches. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2009</b> , 57, 2038-2046	4.1	7

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39	Loss optimization of coplanar strips for CMOS RFICs <b>2009</b> ,		2
38	Three-Bit and Six-Bit Tunable Matching Networks with Tapered Lines <b>2009</b> ,		3
37	High- $Q$ Fully Reconfigurable Tunable Bandpass Filters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2009</b> , 57, 3525-3533	4.1	130
36	In-situ control of tunable evanescent-mode cavity filters using differential mode monitoring <b>2009</b> ,		11
35	A 3.4 to 6.2 GHz Continuously tunable electrostatic MEMS resonator with quality factor of 46000 <b>2009</b> ,		3
34	Energy efficient collaborative beamforming in wireless sensor networks <b>2009</b> ,		12
33	Non-toxic liquid metal microstrip resonators <b>2009</b> ,		6
32	A Micromachined High-Q Microstrip Line with a Broadband Microstrip-to-CPW Transition <b>2009</b> ,		1
31	An inherently-robust 300°C MEMS temperature sensor for wireless health monitoring of ball and rolling element bearings <b>2009</b> ,		8
30	Electrostatically tunable analog single crystal silicon fringing-field MEMS varactors <b>2009</b> ,		2
29	A Phenomenological Discrete Brittle Damage-Mechanics Model for Fatigue of MEMS Devices With Application to LIGA Ni. <i>Journal of Microelectromechanical Systems</i> , <b>2009</b> , 18, 119-128	2.5	9
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27	Impact of sacrificial layer type on thin-film metal residual stress <b>2009</b> ,		3
26	A 6-Gb/s Wireless Inter-Chip Data Link Using 43-GHz Transceivers and Bond-Wire Antennas. <i>IEEE Journal of Solid-State Circuits</i> , <b>2009</b> , 44, 2711-2721	5.5	62
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22	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2008</b> , 56, 39-47	4.9	16
21	Low-Cost 3-D Integration of RF and Micro-Cooling Systems <b>2008</b> ,		6
20	On-chip bond-wire antennas on CMOS-grade silicon substrates <b>2008</b> ,		10
19	A Ka-band waveguide water-based absorptive switch with an integrated micropump <b>2008</b> ,		1
18	Dynamics of a nonlinear microresonator based on resonantly interacting flexural-torsional modes. <i>Nonlinear Dynamics</i> , <b>2008</b> , 54, 31-52	5	40
17	Time-Varying Matching Networks for Signal-Centric Systems. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2007</b> , 55, 2599-2613	4.1	9
16	An Evanescent-mode Cavity Resonator Based Thermal Sensor <b>2007</b> ,		9
15	Non-Toxic Liquid-Metal 2-100 GHz MEMS Switch <b>2007</b> ,		21
14	Photonicallly-Synthesized Waveforms to Combat Broadband Antenna Phase Distortions <b>2007</b> ,		1
13	Time-Domain Impedance Adaptors for Pulse-Based Systems with High Q RC loads. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , <b>2007</b> ,		3
12	Early-Warning Wireless Telemeter for Harsh-Environment Bearings <b>2007</b> ,		17
11	Highly Loaded Evanescent Cavities for Widely Tunable High-Q Filters. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , <b>2007</b> ,		54
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9	Liquid RF MEMS Wideband Reflective and Absorptive Switches. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2007</b> , 55, 2919-2929	4.1	47
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7	Time-varying matching network for antennas in pulse-based systems <b>2007</b> ,		4
6	Characterizing multi-way interference in wireless mesh networks <b>2006</b> ,		26
5	Electrostatic Liquid-Metal Capacitive Shunt MEMS Switch <b>2006</b> ,		16

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2	Silicon Micromachined Packages for RF MEMS Switches <b>2001</b> ,		13
1	Alleviating the Adverse Effects of Residual Stress in RF MEMS Switches <b>2001</b> ,		8