

Yong-Kweon Kim

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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.

173 papers	3,446 citations	31 h-index	51 g-index
226 ext. papers	3,849 ext. citations	3.3 avg, IF	4.69 L-index

#	Paper	IF	Citations
173	Mechanical characterization of micro/nanoscale structures for MEMS/NEMS applications using nanoindentation techniques. <i>Ultramicroscopy</i> , 2003 , 97, 481-94	3.1	255
172	Nanoparticle probes with surface enhanced Raman spectroscopic tags for cellular cancer targeting. <i>Analytical Chemistry</i> , 2006 , 78, 6967-73	7.8	243
171	Multifunctional silver-embedded magnetic nanoparticles as SERS nanoprobe and their applications. <i>Small</i> , 2010 , 6, 119-25	11	161
170	Surface-enhanced Raman scattering-active nanostructures and strategies for bioassays. <i>Nanomedicine</i> , 2011 , 6, 1463-80	5.6	108
169	Measurement of the mechanical properties of electroplated gold thin films using micromachined beam structures. <i>Sensors and Actuators A: Physical</i> , 2005 , 117, 17-27	3.9	105
168	Surface-enhanced Raman spectroscopic-encoded beads for multiplex immunoassay. <i>ACS Combinatorial Science</i> , 2007 , 9, 237-44		81
167	Multiplex targeting, tracking, and imaging of apoptosis by fluorescent surface enhanced Raman spectroscopic dots. <i>Bioconjugate Chemistry</i> , 2007 , 18, 1155-62	6.3	79
166	Chemical mechanical polishing by colloidal silica-based slurry for micro-scratch reduction. <i>Wear</i> , 2004 , 257, 785-789	3.5	70
165	Protein patterning on silicon-based surface using background hydrophobic thin film. <i>Biosensors and Bioelectronics</i> , 2003 , 18, 437-44	11.8	69
164	Fabrication and experiment of a planar micro ion drag pump. <i>Sensors and Actuators A: Physical</i> , 1998 , 70, 1-5	3.9	65
163	Protein separation and identification using magnetic beads encoded with surface-enhanced Raman spectroscopy. <i>Analytical Biochemistry</i> , 2009 , 391, 24-30	3.1	59
162	V-band 2-b and 4-b low-loss and low-voltage distributed MEMS digital phase shifter using metal-air-metal capacitors. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2002 , 50, 2918-2923	4.1	55
161	Magnetic surface-enhanced Raman spectroscopic (M-SERS) dots for the identification of bronchioalveolar stem cells in normal and lung cancer mice. <i>Biomaterials</i> , 2009 , 30, 3915-25	15.6	53
160	Microbead-based affinity chromatography chip using RNA aptamer modified with photocleavable linker. <i>Electrophoresis</i> , 2004 , 25, 3730-9	3.6	53
159	Silicon micro XY-stage with a large area shuttle and no-etching holes for SPM-based data storage. <i>Journal of Microelectromechanical Systems</i> , 2003 , 12, 470-478	2.5	52
158	The SiOG-based single-crystalline silicon (SCS) RF MEMS switch with uniform characteristics. <i>Journal of Microelectromechanical Systems</i> , 2004 , 13, 1036-1042	2.5	50
157	Direct nanomechanical machining of gold nanowires using a nanoindenter and an atomic force microscope. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 551-556	2	49

156	Low-loss and compact V-band MEMS-based analog tunable bandpass filters. <i>IEEE Microwave and Wireless Components Letters</i> , 2002 , 12, 432-434	2.6	48
155	On-line sample cleanup and chiral separation of gemifloxacin in a urinary solution using chiral crown ether as a chiral selector in microchip electrophoresis. <i>Journal of Chromatography A</i> , 2004 , 1055, 241-5	4.5	45
154	Chiral separation of gemifloxacin in sodium-containing media using chiral crown ether as a chiral selector by capillary and microchip electrophoresis. <i>Electrophoresis</i> , 2002 , 23, 972-7	3.6	43
153	Micro XY-stage using silicon on a glass substrate. <i>Journal of Micromechanics and Microengineering</i> , 2002 , 12, 103-107	2	43
152	Effects of polymer grafting on a glass surface for protein chip applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2004 , 33, 67-75	6	41
151	Low-loss analog and digital micromachined impedance tuners at the Ka-band. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2001 , 49, 2394-2400	4.1	40
150	Packaging for RF MEMS devices using LTCC substrate and BCB adhesive layer. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 150-156	2	39
149	Protein patterning by maskless photolithography on hydrophilic polymer-grafted surface. <i>Biosensors and Bioelectronics</i> , 2003 , 19, 485-94	11.8	39
148	Micro protein patterning using a lift-off process with fluorocarbon thin film. <i>Sensors and Actuators B: Chemical</i> , 2004 , 99, 623-632	8.5	36
147	A V-band micromachined 2-D beam-steering antenna driven by magnetic force with polymer-based hinges. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2003 , 51, 325-331	4.1	34
146	Fabrication of microchip electrophoresis devices and effects of channel surface properties on separation efficiency. <i>Sensors and Actuators B: Chemical</i> , 2005 , 107, 818-824	8.5	34
145	Integration of on-column immobilized enzyme reactor in microchip electrophoresis. <i>Electrophoresis</i> , 2003 , 24, 200-6	3.6	33
144	Microaffinity purification of proteins based on photolytic elution: toward an efficient microbead affinity chromatography on a chip. <i>Electrophoresis</i> , 2005 , 26, 694-702	3.6	33
143	A high-temperature MEMS heater using suspended silicon structures. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 115011	2	31
142	Prevention method of a notching caused by surface charging in silicon reactive ion etching. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 358-361	2	30
141	Protein patterning by virtual mask photolithography using a micromirror array. <i>Journal of Micromechanics and Microengineering</i> , 2003 , 13, 18-25	2	29
140	A high-aspect-ratio comb actuator using UV-LIGA surface micromachining and (110) silicon bulk micromachining. <i>Journal of Micromechanics and Microengineering</i> , 2002 , 12, 128-135	2	29
139	Quantitatively controlled nanoliter liquid manipulation using hydrophobic valving and control of surface wettability. <i>Journal of Micromechanics and Microengineering</i> , 2003 , 13, 89-97	2	28

138	Tunable millimeter-wave filters using a coplanar waveguide and micromachined variable capacitors. <i>Journal of Micromechanics and Microengineering</i> , 2001 , 11, 706-712	2	28
137	Design and fabrication of micromirror supported by electroplated nickel posts. <i>Sensors and Actuators A: Physical</i> , 1996 , 54, 464-467	3.9	28
136	A new micromachined overlay CPW structure with low attenuation over wide impedance ranges and its application to low-pass filters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2001 , 49, 1634-1639	4.1	27
135	Permittivity measurements up to 30 GHz using micromachined probe. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 543-550	2	26
134	Novel low-cost planar probes with broadside apertures for nondestructive dielectric measurement of biological materials at microwave frequencies. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005 , 53, 134-143	4.1	26
133	A Miniaturized Broadband Multi-State Reflectometer Integrated on a Silicon MEMS Probe for Complex Permittivity Measurement of Biological Material. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013 , 61, 2205-2214	4.1	25
132	Low-loss analog and digital reflection-type MEMS phase shifters with 1:3 bandwidth. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2004 , 52, 211-219	4.1	25
131	Design and fabrication of 10×10 micro-spatial light modulator array for phase and amplitude modulation. <i>Sensors and Actuators A: Physical</i> , 1999 , 78, 63-70	3.9	25
130	Direct identification of on-bead peptides using surface-enhanced Raman spectroscopic barcoding system for high-throughput bioanalysis. <i>Scientific Reports</i> , 2015 , 5, 10144	4.9	24
129	Automated maskless photolithography system for peptide microarray synthesis on a chip. <i>ACS Combinatorial Science</i> , 2010 , 12, 463-71		24
128	Light-directed synthesis of peptide nucleic acids (PNAs) chips. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2891-7	11.8	24
127	Microfluidic chip for biochemical reaction and electrophoretic separation by quantitative volume control. <i>Sensors and Actuators B: Chemical</i> , 2005 , 110, 164-173	8.5	24
126	Millimeter-wave MEMS tunable low pass filter with reconfigurable series inductors and capacitive shunt switches. <i>IEEE Microwave and Wireless Components Letters</i> , 2005 , 15, 691-693	2.6	23
125	Effect of mechanical process parameters on chemical mechanical polishing of Al thin films. <i>Microelectronic Engineering</i> , 2003 , 65, 13-23	2.5	23
124	Silicon scanning mirror of two DOF with compensation current routing. <i>Journal of Micromechanics and Microengineering</i> , 2004 , 14, 1455-1461	2	22
123	V-band reflection-type phase shifters using micromachined CPW coupler and RF switches. <i>Journal of Microelectromechanical Systems</i> , 2002 , 11, 808-814	2.5	21
122	A compact V-band 2-bit reflection-type MEMS phase shifter. <i>IEEE Microwave and Wireless Components Letters</i> , 2002 , 12, 324-326	2.6	21
121	Electromagnetic micromirror array with single-crystal silicon mirror plate and aluminum spring. <i>Journal of Lightwave Technology</i> , 2003 , 21, 584-590	4	20

120	Continuous anti-stiction coatings using self-assembled monolayers for gold microstructures. <i>Journal of Micromechanics and Microengineering</i> , 2002 , 12, 688-695	2	20
119	Low-loss micromachined inverted overlay CPW lines with wide impedance ranges and inherent airbridge connection capability. <i>IEEE Microwave and Wireless Components Letters</i> , 2001 , 11, 59-61	2.6	20
118	MEMS acceleration switch with bi-directionally tunable threshold. <i>Sensors and Actuators A: Physical</i> , 2014 , 208, 120-129	3.9	19
117	Bead affinity chromatography in a temperature-controllable microsystem for biomarker detection. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 2267-75	4.4	19
116	Reconfigurable millimeter-wave filters using CPW-based periodic structures with novel multiple-contact MEMS switches. <i>Journal of Microelectromechanical Systems</i> , 2005 , 14, 456-463	2.5	19
115	Synthesis of photolabile o-nitroveratryloxycarbonyl (NVOC) protected peptide nucleic acid monomers. <i>Tetrahedron</i> , 2005 , 61, 7967-7973	2.4	18
114	Feed-through capacitance reduction for a micro-resonator with push-pull configuration based on electrical characteristic analysis of resonator with direct drive. <i>Sensors and Actuators A: Physical</i> , 2011 , 170, 131-138	3.9	17
113	Electrostatically driven low-voltage micromechanical RF switches using robust single-crystal silicon actuators. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 095007	2	17
112	MEMS variable optical attenuator using a translation motion of 45°-tilted vertical mirror. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 1466-1475	2	17
111	Deep wet etching of borosilicate glass and fused silica with dehydrated AZ4330 and a Cr/Au mask. <i>Journal of Micromechanics and Microengineering</i> , 2014 , 24, 015003	2	16
110	Design and fabrication of micromirror array supported by vertical springs. <i>Sensors and Actuators A: Physical</i> , 1998 , 66, 144-149	3.9	16
109	Bias-free pneumatic sample injection in microchip electrophoresis. <i>Journal of Chromatography A</i> , 2005 , 1063, 253-6	4.5	16
108	An integrated microfluidic chip for the analysis of biochemical reactions by MALDI mass spectrometry. <i>Biomedical Microdevices</i> , 2008 , 10, 1-9	3.7	15
107	Micromirror array for protein micro array fabrication. <i>Journal of Micromechanics and Microengineering</i> , 2003 , 13, 474-481	2	15
106	Fabrication of a vertical sidewall using double-sided anisotropic etching of <1 0 0> oriented silicon. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 095014	2	14
105	MEMS micromirror characterization in space environments. <i>Optics Express</i> , 2009 , 17, 3370-80	3.3	14
104	Application of a temperature-controllable microreactor to simple and rapid protein identification using MALDI-TOF MS. <i>Lab on A Chip</i> , 2006 , 6, 1056-61	7.2	13
103	A Planar High- Q Micromachined Monolithic Half-Coaxial Transmission-Line Filter. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006 , 54, 4161-4168	4.1	13

102	In vitro and in vivo measurement for biological applications using micromachined probe. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005 , 53, 3415-3421	4.1	13
101	Novel Micromachined Coplanar Waveguide Transmission Lines for Application in Millimeter-Wave Circuits. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 7120-7124	1.4	13
100	A hybrid RF MEMS probe array system with a SP3T RF MEMS silicon switch for permittivity measurement. <i>Journal of Micromechanics and Microengineering</i> , 2008 , 18, 085006	2	12
99	A compact low-loss reconfigurable monolithic low-pass filter using multiple-contact MEMS switches. <i>IEEE Microwave and Wireless Components Letters</i> , 2004 , 14, 37-39	2.6	12
98	Silicon MEMS acceleration switch with high reliability using hooked latch. <i>Microelectronic Engineering</i> , 2016 , 152, 10-19	2.5	11
97	Electrochemical sensing of high density photosynthetic cells using a microfluidic chip. <i>Sensors and Actuators B: Chemical</i> , 2013 , 188, 1300-1305	8.5	10
96	A wafer-level vacuum package using glass-reflowed silicon through-wafer interconnection for nano/micro devices. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 5252-62	1.3	10
95	Biochemical reactions on a microfluidic chip based on a precise fluidic handling method at the nanoliter scale. <i>Biotechnology and Bioprocess Engineering</i> , 2006 , 11, 146-153	3.1	10
94	Thermal de-isolation of silicon microstructures in a plasma etching environment. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 025026	2	9
93	. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 4830-4836	8.9	9
92	A single-pole nine-throw antenna switch using radio-frequency microelectromechanical systems technology for broadband multi-mode and multi-band front-ends. <i>Journal of Micromechanics and Microengineering</i> , 2008 , 18, 015012	2	9
91	Planar type micromachined probe with low uncertainty at low frequencies. <i>Sensors and Actuators A: Physical</i> , 2007 , 139, 111-117	3.9	9
90	Characterization of a single-crystal silicon micromirror array for maskless UV lithography in biochip applications. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 2360-2368	2	9
89	Multi-step reactions on microchip platform using nitrocellulose membrane reactor. <i>Biotechnology and Bioprocess Engineering</i> , 2003 , 8, 257-262	3.1	9
88	A 50/100 GHz ohmic contact SPDT RF MEMS silicon switch with dual axis movement. <i>Microelectronic Engineering</i> , 2016 , 162, 69-74	2.5	9
87	Two-dimensional optical scanner with monolithically integrated glass microlens. <i>Journal of Micromechanics and Microengineering</i> , 2014 , 24, 055009	2	8
86	Wafer-Level Fabrication of a Fused-Quartz Double-Ended Tuning Fork Resonator Oscillator Using Quartz-on-Quartz Direct Bonding. <i>IEEE Electron Device Letters</i> , 2013 , 34, 692-694	4.4	8
85	Novel microbial photobioelectrochemical cell using an invasive ultramicroelectrode array and a microfluidic chamber. <i>Biotechnology Letters</i> , 2017 , 39, 849-855	3	8

84	Cold- and hot-switching lifetime characterizations of ohmic-contact RF MEMS switches. <i>IEICE Electronics Express</i> , 2008 , 5, 418-423	0.5	8
83	A method of binding kinetics of a ligand to micropatterned proteins on a microfluidic chip. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 891-8	11.8	8
82	Nanoslit membrane-integrated fluidic chip for protein detection based on size-dependent particle trapping. <i>Lab on A Chip</i> , 2014 , 14, 237-43	7.2	7
81	Switchable Composite Right/Left-Handed (S-CRLH) Transmission Line Using MEMS Switches. <i>IEEE Microwave and Wireless Components Letters</i> , 2009 , 19, 804-806	2.6	7
80	Design, fabrication and characterization of an electromagnetically actuated addressable out-of-plane micromirror array for vertical optical source applications. <i>Journal of Micromechanics and Microengineering</i> , 2003 , 13, 853-863	2	7
79	Electric spring modeling for a comb actuator deformed by the footing effect in deep reactive ion etching. <i>Journal of Micromechanics and Microengineering</i> , 2003 , 13, 72-79	2	7
78	A Surface-Bulk-Micromachined Electromagnetic Gyroscope Operating at Atmospheric Pressure. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 7130-7133	1.4	7
77	Mechanical Property Measurement of Electroplated Gold Microstructure Using Resonance Method. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 605, 229		7
76	Design and fabrication of a silicon-based MEMS acceleration switch working lower than 10 g. <i>Journal of Micromechanics and Microengineering</i> , 2017 , 27, 065009	2	6
75	Monolithically integrated glass microlens scanner using a thermal reflow process. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 065012	2	6
74	Numerical analysis and demonstration of a 2-DOF large-size micromirror with sloped electrodes. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 095006	2	6
73	Fabrication of disposable protein chip for simultaneous sample detection. <i>Biotechnology and Bioprocess Engineering</i> , 2006 , 11, 455-461	3.1	6
72	Fabrication and Characterization of RF MEMS Package Based on LTCC Lid Substrate and Gold-Tin Eutectic Bonding 2007 ,		6
71	A mechanically reliable digital-type single crystalline silicon (SCS) RF MEMS variable capacitor. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 1854-1863	2	6
70	Monolithic fabrication of optical benches and scanning mirror using silicon bulk micromachining. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 747-755	2	6
69	Anisotropic Bulk Etching of (110) Silicon with High Aspect Ratio. <i>IEEJ Transactions on Sensors and Micromachines</i> , 1998 , 118, 32-36	0.2	6
68	Disposable MEMS optrode array integrated with single LED for neurostimulation. <i>Sensors and Actuators A: Physical</i> , 2018 , 273, 276-284	3.9	5
67	Single-mask fabrication of micro-probe electrode array with various tip heights and sharpness using isotropic and anisotropic etching. <i>Micro and Nano Letters</i> , 2018 , 13, 1245-1247	0.9	5

66	A planar vibratory gyroscope using electromagnetic force. <i>Sensors and Actuators A: Physical</i> , 1998 , 65, 101-108	3.9	5
65	A low-drift, open-loop controlled, single crystalline silicon micromirror with floating field-limiting shields. <i>Journal of Micromechanics and Microengineering</i> , 2008 , 18, 035031	2	5
64	Novel compact low-loss millimeter-wave filters using micromachined overlay and inverted overlay coplanar waveguide transmission lines with defected ground structures. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 2183-2191	2	5
63	Measurements of a fabricated micro mirror using a lateral-effect position-sensitive photodiode. <i>IEEE Transactions on Industrial Electronics</i> , 1998 , 45, 861-865	8.9	5
62	The Surface Modification with Fluorocarbon Thin Films for the Prevention of Stiction in Mems. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 518, 143		5
61	Chemical gating experiment of a nano-field-effect transistor sensor using the detection of negative ions in air. <i>Sensors and Actuators B: Chemical</i> , 2016 , 236, 654-658	8.5	4
60	Negative ions detection in air using nano field-effect-transistor (nanoFET). <i>Micro and Nano Systems Letters</i> , 2014 , 2,	2	4
59	Conductive microtip electrode array with variable aspect ratio using combination process of reactive ion etching. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 115009	2	4
58	An absorptive single-pole four-throw switch using multiple-contact MEMS switches and its application to a monolithic millimeter-wave beam-forming network. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 015024	2	4
57	Fabrication and experiment of planar micro ion drag pump		4
56	Two-mass system with wide bandwidth for SiOG (silicon on glass) vibratory gyroscopes		4
55	Enhancement of analyte ionization in desorption/ionization on porous silicon (DIOS)-mass spectrometry (MS). <i>Biotechnology and Bioprocess Engineering</i> , 2005 , 10, 212-217	3.1	4
54	Compact low-loss monolithic CPW filters using air-gap overlay structures. <i>IEEE Microwave and Wireless Components Letters</i> , 2001 , 11, 328-330	2.6	4
53	Design and Fabrication of Electromagnetic Micromirror with Bulk Silicon Mirror Plate and Aluminum Spring. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 7138-7141	1.4	4
52	Novel Fabrication Process of Freestanding Metallic Microstructures Using Double Electroplating. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, 7104-7109	1.4	4
51	Design and fabrication of hidden-spring-structure-type micro-SLM for phase and amplitude modulation 1998 ,		4
50	Detecting ions in air using a nanofield-effect transistor (nanoFET). <i>Microelectronic Engineering</i> , 2016 , 158, 75-79	2.5	3
49	Suppression of surface crystallization on borosilicate glass using RF plasma treatment. <i>Applied Surface Science</i> , 2014 , 316, 484-490	6.7	3

48	Fabrication of polydimethylsiloxane microlens arrays by surface tension induced liquid separation. <i>Micro and Nano Letters</i> , 2011 , 6, 809	0.9	3
47	Pull-in voltage uniformity analysis of digitally operated micro mirror array with torsional springs. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 035006	2	3
46	RF MEMS suspended band-stop resonator and filter for frequency and bandwidth continuous fine tuning. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 015005	2	3
45	Controlled volume transfer and lens shape formation by liquid bridge disconnection. <i>Applied Physics Letters</i> , 2012 , 100, 214103	3-4	3
44	LTCC-based vertical via interconnects for RF MEMS packaging. <i>Microwave and Optical Technology Letters</i> , 2010 , 52, 252-257	1.2	3
43	V-band Single-Platform Beam Steering Transmitters Using Micromachining Technology 2006 ,		3
42	MEMS-based compact dual-band bandpass filters with applications to wireless local area network. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 1135-1142	2	3
41	Micromachined frequency-variable impedance tuners using resonant unit cells		3
40	Novel Fabrication of Comb Actuator Using Reactive Ion Etching of Polysilicon and (110) Si Anisotropic Bulk Etching in KOH. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, 7086-7092	1.4	3
39	Micro electrohydrodynamic pump driven by traveling electric fields		3
38	Fabrication and Experiment of Novel Type Electrohydrodynamic Micropump.. <i>IEEJ Transactions on Sensors and Micromachines</i> , 1997 , 117, 170-174	0.2	3
37	Design, fabrication and characterization of piezoelectric micro-cantilever operated in liquid environment for ultrasound energy source applications. <i>Microsystem Technologies</i> , 2011 , 17, 1319-1327	1.7	2
36	MEMS-tunable composite right/left-handed (CRLH) transmission line and its application to a phase shifter. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 125022	2	2
35	New release technique of a thick sacrificial layer and residue effects on novel half-coaxial transmission line filters. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 055018	2	2
34	Silicon/quartz bonding and quartz deep RIE for the fabrication of quartz resonator structures 2008 ,		2
33	Monolithic reconfigurable bandpass filter using single-pole double-throw RF MEMS switches. <i>IEICE Electronics Express</i> , 2008 , 5, 483-489	0.5	2
32	Multi-layer processed probes for permittivity measurement		2
31	Silicon MEMS probe using a simple adhesive bonding process for permittivity measurement. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, N11-N16	2	2

30	A few deg/hr resolvable low noise lateral microgyroscope		2
29	Design and fabrication of electromagnetic micromirror with bulk silicon mirror plate and aluminum spring		2
28	Design And Fabrication Of Micro Mirror Supported By Electroplated Nickel Posts		2
27	Improvement of Maskless Photolithography of Bio Pattern with Single Crystalline Silicon Micromirror Array. <i>Journal of Electrical Engineering and Technology</i> , 2007 , 2, 274-279	1.4	2
26	Fabrication of a Bottom Electrode for a Nano-scale Beam Resonator Using Backside Exposure with a Self-aligned Metal Mask. <i>Journal of Electrical Engineering and Technology</i> , 2009 , 4, 546-551	1.4	2
25	Nanoslit-concentration-chip integrated microbead-based protein assay system for sensitive and quantitative detection. <i>RSC Advances</i> , 2017 , 7, 29679-29685	3.7	1
24	Effect of reference electrode in the nanoFET (field-effect transistor)-based biosensor experiment. <i>Micro and Nano Letters</i> , 2014 , 9, 874-876	0.9	1
23	Design of etch holes to compensate spring width loss for reliable resonant frequencies. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 057002	2	1
22	A Ku-band miniaturized microwave ablation system integrated on a micromachined silicon applicator 2013 ,		1
21	Tunable composite right/left-handed transmission line with positive/negative phase tunability using integrated MEMS switches 2010 ,		1
20	Design and fabrication of a self-aligned parallel-plate-type silicon micromirror minimizing the effect of misalignment. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 055004	2	1
19	[110] silicon etching for high aspect ratio comb structures		1
18	A micromachined monolithic half coaxial transmission line filter		1
17	Biochip fluorescence detection system with spatial and spectral separation. <i>Optics and Lasers in Engineering</i> , 2006 , 44, 1198-1208	4.6	1
16	A 5-17 GHz wideband reflection-type phase shifter using digitally operated capacitive MEMS switches		1
15	A V-band CPS distributed analog MEMS phase shifter		1
14	A 15-to-45 GHz low-loss analog reflection-type MEMS phase shifter		1
13	Vacuum packaged low noise gyroscope with sub mdeg/s//spl radic/Hz resolution		1

12	Protein patterning by virtual mask photolithography using micromirror array		1
11	Millimeter-wave micromachined tunable filters		1
10	Fabrication and experimentation of vertical spring-type micromirror using shielding screen structure. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1999 , 5, 102-105	3.8	1
9	Fabrication of Micro XY-Stage with Large-Area Rectangular Shuttle using Anodic Bonding Process 2001 , 752-755		1
8	A 3-Voltage Actuated Micromachined RF Switch for Telecommunications Applications 2001 , 1512-1515		1
7	Multi-wavelength light emitting diode-based disposable optrode array for in vivo optogenetic modulation. <i>Journal of Biophotonics</i> , 2019 , 12, e201800343	3.1	1
6	Two-state reconfigurable miniaturized low-pass filter using micromachined double-contact RF switches. <i>Sensors and Actuators A: Physical</i> , 2011 , 170, 172-179	3.9	0
5	Microfluidic platform for cell analysis using through-polydimethylsiloxane micro-tip electrode array. <i>Microelectronic Engineering</i> , 2019 , 215, 111021	2.5	
4	Novel MMIC protection technique in plasma etching process for mechanically movable RF mems antenna. <i>Microwave and Optical Technology Letters</i> , 2008 , 50, 3089-3093	1.2	
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