Maysam Ghovanloo

List of Publications by Citations

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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.

267 papers

6,633 citations

40 h-index

g-index

299 ext. papers

7,879 ext. citations

3.3 avg, IF

6.54 L-index

#	Paper	IF	Citations
267	Design and optimization of printed spiral coils for efficient transcutaneous inductive power transmission. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2007 , 1, 193-202	5.1	418
266	Design and Optimization of a 3-Coil Inductive Link for Efficient Wireless Power Transmission. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2011 , 99, 1	5.1	401
265	The Circuit Theory Behind Coupled-Mode Magnetic Resonance-Based Wireless Power Transmission. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 2065-2074	3.9	271
264	. IEEE Journal of Solid-State Circuits, 2004 , 39, 1976-1984	5.5	216
263	Modeling and optimization of printed spiral coils in air, saline, and muscle tissue environments. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2009 , 3, 339-47	5.1	182
262	An Integrated Power-Efficient Active Rectifier With Offset-Controlled High Speed Comparators for Inductively Powered Applications. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2011 , 58, 1749-1760	3.9	158
261	Optimal Design of Wireless Power Transmission Links for Millimeter-Sized Biomedical Implants. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2016 , 10, 125-37	5.1	152
260	. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 2211-2221		143
259	A magneto-inductive sensor based wireless tongue-computer interface. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2008 , 16, 497-504	4.8	141
258	A Power-Efficient Wireless System With Adaptive Supply Control for Deep Brain Stimulation. <i>IEEE Journal of Solid-State Circuits</i> , 2013 , 48, 2203-2216	5.5	130
257	Dual-task motor performance with a tongue-operated assistive technology compared with hand operations. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2012 , 9, 1	5.3	110
256	An Inductively Powered Scalable 32-Channel Wireless Neural Recording System-on-a-Chip for Neuroscience Applications. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2010 , 4, 360-71	5.1	110
255	An RFID-Based Closed-Loop Wireless Power Transmission System for Biomedical Applications. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2010 , 57, 260-264	3.5	107
254	A wireless implantable multichannel microstimulating system-on-a-chip with modular architecture. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2007 , 15, 449-57	4.8	103
253	An Inductively Powered Scalable 32-Channel Wireless Neural Recording System-on-a-Chip for Neuroscience Applications. <i>Digest of Technical Papers - IEEE International Solid-State Circuits Conference</i> , 2010 , 2010, 120-121	4	102
252	A Modular 32-site wireless neural stimulation microsystem. <i>IEEE Journal of Solid-State Circuits</i> , 2004 , 39, 2457-2466	5.5	100
251	A Figure-of-Merit for Designing High-Performance Inductive Power Transmission Links. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 60, 5292-5305	8.9	94

(2011-2015)

250	A Power-Efficient Switched-Capacitor Stimulating System for Electrical/Optical Deep Brain Stimulation. <i>IEEE Journal of Solid-State Circuits</i> , 2015 , 50, 360-374	5.5	92
249	A compact large voltage-compliance high output-impedance programmable current source for implantable microstimulators. <i>IEEE Transactions on Biomedical Engineering</i> , 2005 , 52, 97-105	5	92
248	A Triple-Loop Inductive Power Transmission System for Biomedical Applications. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2016 , 10, 138-48	5.1	89
247	Optimization of data coils in a multiband wireless link for neuroprosthetic implantable devices. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2010 , 4, 301-10	5.1	81
246	Evaluation of a wireless wearable tongue-computer interface by individuals with high-level spinal cord injuries. <i>Journal of Neural Engineering</i> , 2010 , 7, 26008	5	74
245	A Low-Noise Preamplifier with Adjustable Gain and Bandwidth for Biopotential Recording Applications 2007 ,		72
244	Using unconstrained tongue motion as an alternative control mechanism for wheeled mobility. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 1719-26	5	68
243	The tongue enables computer and wheelchair control for people with spinal cord injury. <i>Science Translational Medicine</i> , 2013 , 5, 213ra166	17.5	66
242	Robust Wireless Power Transmission to mm-Sized Free-Floating Distributed Implants. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017 , 11, 692-702	5.1	61
241	A Q-Modulation Technique for Efficient Inductive Power Transmission. <i>IEEE Journal of Solid-State Circuits</i> , 2015 , 50, 2839-2848	5.5	57
240	An Integrated Full-Wave CMOS Rectifier With Built-In Back Telemetry for RFID and Implantable Biomedical Applications. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008 , 55, 3328-3334	1 ^{3.9}	57
239	A 13.56-mbps pulse delay modulation based transceiver for simultaneous near-field data and power transmission. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2015 , 9, 1-11	5.1	55
238	Design, fabrication, and packaging of an integrated, wirelessly-powered optrode array for optogenetics application. <i>Frontiers in Systems Neuroscience</i> , 2015 , 9, 69	3.5	52
237	A wireless magnetoresistive sensing system for an intraoral tongue-computer interface. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2012 , 6, 571-85	5.1	51
236	An Adaptive Reconfigurable Active Voltage Doubler/Rectifier for Extended-Range Inductive Power Transmission. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2012 , 59, 481-485	3.5	46
235	An Implantable Peripheral Nerve Recording and Stimulation System for Experiments on Freely Moving Animal Subjects. <i>Scientific Reports</i> , 2018 , 8, 6115	4.9	45
234	Geometrical Design of a Scalable Overlapping Planar Spiral Coil Array to Generate a Homogeneous Magnetic Field. <i>IEEE Transactions on Magnetics</i> , 2012 , 49, 2933-2945	2	45
233	A 10.2 Mbps Pulse Harmonic Modulation Based Transceiver for Implantable Medical Devices. <i>IEEE Journal of Solid-State Circuits</i> , 2011 , 46, 1296-1306	5.5	45

232	Evaluation of a smartphone platform as a wireless interface between tongue drive system and electric-powered wheelchairs. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 1787-96	5	43
231	EnerCage: a smart experimental arena with scalable architecture for behavioral experiments. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 139-48	5	42
230	Active High Power Conversion Efficiency Rectifier With Built-In Dual-Mode Back Telemetry in Standard CMOS Technology. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2008 , 2, 184-92	5.1	42
229	Unobtrusive and Wearable Systems for Automatic Dietary Monitoring. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2075-2089	5	41
228	A high frequency active voltage doubler in standard CMOS using offset-controlled comparators for inductive power transmission. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2013 , 7, 213-24	5.1	41
227	Introduction and preliminary evaluation of the Tongue Drive System: wireless tongue-operated assistive technology for people with little or no upper-limb function. <i>Journal of Rehabilitation Research and Development</i> , 2008 , 45, 921-30		40
226	Three-Phase Time-Multiplexed Planar Power Transmission to Distributed Implants. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2016 , 4, 263-272	5.6	38
225	Position and Orientation Insensitive Wireless Power Transmission for EnerCage-Homecage System. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2439-2449	5	37
224	An Experimental Study of Voltage, Current, and Charge Controlled Stimulation Front-End Circuitry 2007 ,		36
223	Analytical Modeling and Optimization of Small Solenoid Coils for Millimeter-Sized Biomedical Implants. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 1024-1035	4.1	35
222	Energy-efficient switching scheme in SAR ADC for biomedical electronics. <i>Electronics Letters</i> , 2015 , 51, 676-678	1.1	35
221	An Inductively-Powered Wireless Neural Recording and Stimulation System for Freely-Behaving Animals. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2019 , 13, 413-424	5.1	35
220	A Multi-Cycle Q-Modulation for Dynamic Optimization of Inductive Links. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 5091-5100	8.9	34
219	Wireless opto-electro neural interface for experiments with small freely behaving animals. <i>Journal of Neural Engineering</i> , 2018 , 15, 046032	5	34
218	Towards a smart experimental arena for long-term electrophysiology experiments. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2012 , 6, 414-23	5.1	33
217	Quantitative and comparative assessment of learning in a tongue-operated computer input device. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2011 , 15, 747-57		33
216	An Adaptive Reconfigurable Active Voltage Doubler/Rectifier for Extended-Range Inductive Power Transmission. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2012 , 286-288	3.5	32
215	An Inductively-Powered Wireless Neural Recording System with a Charge Sampling Analog Front-End. <i>IEEE Sensors Journal</i> , 2016 , 16, 475-484	4	31

214	Wideband Near-Field Data Transmission Using Pulse Harmonic Modulation. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2011 , 58, 186-195	3.9	31
213	A Smart Wirelessly Powered Homecage for Long-Term High-Throughput Behavioral Experiments. <i>IEEE Sensors Journal</i> , 2015 , 15, 4905-4916	4	30
212	Chip-Scale Coils for Millimeter-Sized Bio-Implants. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018 , 12, 1088-1099	5.1	28
211	Enhanced Wireless Power Transmission Using Strong Paramagnetic Response. <i>IEEE Transactions on Magnetics</i> , 2014 , 50,	2	28
210	A Power-Efficient Wireless Capacitor Charging System Through an Inductive Link. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2013 , 60, 707-711	3.5	28
209	A 20-Mb/s Pulse Harmonic Modulation Transceiver for Wideband Near-Field Data Transmission. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2013 , 60, 382-386	3.5	28
208	Feasibility Study on Active Back Telemetry and Power Transmission Through an Inductive Link for Millimeter-Sized Biomedical Implants. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017 , 11, 1366-1376	5.1	28
207	All-soft, battery-free, and wireless chemical sensing platform based on liquid metal for liquid- and gas-phase VOC detection. <i>Lab on A Chip</i> , 2017 , 17, 2323-2329	7.2	27
206	Assessment of the Tongue-Drive System Using a Computer, a Smartphone, and a Powered-Wheelchair by People With Tetraplegia. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016 , 24, 68-78	4.8	27
205	A wideband dual-antenna receiver for wireless recording from animals behaving in large arenas. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 1993-2004	5	27
204	Fully-Integrated CMOS Power Regulator for Telemetry-Powered Implantable Biomedical Microsystems 2006 ,		27
203	Fabrication and Microassembly of a mm-Sized Floating Probe for a Distributed Wireless Neural Interface. <i>Micromachines</i> , 2016 , 7,	3.3	27
202	Tongue-controlled computer game: a new approach for rehabilitation of tongue motor function. <i>Archives of Physical Medicine and Rehabilitation</i> , 2014 , 95, 524-30	2.8	26
201	Towards a Reduced-Wire Interface for CMUT-Based Intravascular Ultrasound Imaging Systems. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017 , 11, 400-410	5.1	26
200	Using pulse width modulation for wireless transmission of neural signals in multichannel neural recording systems. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2009 , 17, 354-63	4.8	26
199	Tongue drive: a wireless tongue- operated means for people with severe disabilities to communicate their intentions 2012 , 50, 128-135		24
198	A dual-mode human computer interface combining speech and tongue motion for people with severe disabilities. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2013 , 21, 979-91	4.8	24
197	A low-noise clockless simultaneous 32-channel wireless neural recording system with adjustable resolution. <i>Analog Integrated Circuits and Signal Processing</i> , 2011 , 66, 417-431	1.2	24

196	Analysis, design, and implementation of a high-efficiency full-wave rectifier in standard CMOS technology. <i>Analog Integrated Circuits and Signal Processing</i> , 2009 , 60, 71-81	1.2	24
195	A Trimodal Wireless Implantable Neural Interface System-on-Chip. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2020 , 14, 1207-1217	5.1	23
194	An Overview of Data Telemetry in Inductively Powered Implantable Biomedical Devices. <i>IEEE Communications Magazine</i> , 2019 , 57, 74-80	9.1	22
193	Qualitative assessment of tongue drive system by people with high-level spinal cord injury. <i>Journal of Rehabilitation Research and Development</i> , 2014 , 51, 451-65		22
192	Quantitative and comparative assessment of learning in a tongue-operated computer input devicepart II: navigation tasks. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012 , 16, 633-43		22
191	A Wirelessly-Powered Homecage With Segmented Copper Foils and Closed-Loop Power Control. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2016 , 10, 979-989	5.1	21
190	A mm-Sized Free-Floating Wirelessly Powered Implantable Optical Stimulation Device. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2019 , 13, 608-618	5.1	21
189	Force and complexity of tongue task training influences behavioral measures of motor learning. <i>European Journal of Oral Sciences</i> , 2012 , 120, 46-53	2.3	21
188	A Dual-Band Wireless Power Transmission System for Evaluating mm-Sized Implants. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2019 , 13, 595-607	5.1	20
187	A mm-sized free-floating wirelessly powered implantable optical stimulating system-on-a-chip 2018 ,		20
186	A wireless slanted optrode array with integrated micro leds for optogenetics 2014,		20
185	Real-time swallowing detection based on tracheal acoustics 2014 ,		20
184	Antennas for Intraoral Tongue Drive System at 2.4 GHz: Design, Characterization, and Comparison. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 2546-2555	4.1	19
	Simultaneous Multimodal PC Access for People With Disabilities by Integrating Head Tracking,		
183	Speech Recognition, and Tongue Motion. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018 , 12, 192-201	5.1	19
183 182	Speech Recognition, and Tongue Motion. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018	5.1	19
	Speech Recognition, and Tongue Motion. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018 , 12, 192-201	5.1 3.1	
182	Speech Recognition, and Tongue Motion. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018 , 12, 192-201 2018 , An automated behavior analysis system for freely moving rodents using depth image. <i>Medical and</i>		19

178	Joint Magnetic Calibration and Localization Based on Expectation Maximization for Tongue Tracking. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 52-63	5	17
177	A passive quantitative measurement of airway resistance using depth data. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 5743-7	0.9	17
176	Tongue operated assistive technologies. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 4376-9		17
175	PANACEA: An Internet of Bio-NanoThings Application for Early Detection and Mitigation of Infectious Diseases. <i>IEEE Access</i> , 2020 , 8, 140512-140523	3.5	17
174	Multimodal Speech Capture System for Speech Rehabilitation and Learning. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2639-2649	5	16
173	A Low-Power Wearable Stand-Alone Tongue Drive System for People With Severe Disabilities. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018 , 12, 58-67	5.1	16
172	Chronic Electrical Stimulation Promotes the Excitability and Plasticity of ESC-derived Neurons following Glutamate-induced Inhibition In vitro. <i>Scientific Reports</i> , 2018 , 8, 10957	4.9	16
171	An arch-shaped intraoral tongue drive system with built-in tongue-computer interfacing SoC. <i>Sensors</i> , 2014 , 14, 21565-87	3.8	16
170	A Reduced-Wire ICE Catheter ASIC With Tx Beamforming and Rx Time-Division Multiplexing. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018 , 12, 1246-1255	5.1	16
169	A Reconfigurable Passive RF-to-DC Converter for Wireless IoT Applications. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019 , 66, 1800-1804	3.5	15
168	A Deep Neural Network-Based Permanent Magnet Localization for Tongue Tracking. <i>IEEE Sensors Journal</i> , 2019 , 19, 9324-9331	4	15
167	Motivational conditions influence tongue motor performance. <i>European Journal of Oral Sciences</i> , 2013 , 121, 111-6	2.3	15
166	. IEEE Circuits and Systems Magazine, 2017 , 17, 64-82	3.2	15
165	Wireless Communication of Intraoral Devices and Its Optimal Frequency Selection. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014 , 62, 3205-3215	4.1	15
164	Direct Digital Demultiplexing of Analog TDM Signals for Cable Reduction in Ultrasound Imaging Catheters. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016 , 63, 1078-85	3.2	15
163	Wireless control of powered wheelchairs with tongue motion using tongue drive assistive technology. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 4199-202	0.9	14
162	A wireless tongue-computer interface using stereo differential magnetic field measurement. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5724	l-7	14
161	A multimodal human computer interface combining head movement, speech and tongue motion for people with severe disabilities 2015 ,		13

160	Command detection and classification in tongue drive assistive technology. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 5465-8	0.9	13	
159	Towards a magnetic localization system for 3-D tracking of tongue movements in speech-language therapy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 563-6	0.9	13	
158	Design and Optimization of Printed Spiral Coils for Efficient Inductive Power Transmission 2007,		13	
157	An Adaptive Averaging Low Noise Front-End for Central and Peripheral Nerve Recording. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018 , 65, 839-843	3.5	13	
156	Optimal Design of a Resonance-Based Voltage Boosting Rectifier for Wireless Power Transmission. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 1645-1654	8.9	12	
155	A Vision-Based Respiration Monitoring System for Passive Airway Resistance Estimation. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 1904-1913	5	12	
154	Toward Silent-Speech Control of Consumer Wearables. <i>Computer</i> , 2015 , 48, 54-62	1.6	12	
153	Towards a kinect-based behavior recognition and analysis system for small animals 2015,		12	
152	Fully integrated power-efficient AC-to-DC converter design in inductively-powered biomedical applications 2011 ,		12	
151	Optimal design of a 3-coil inductive link for millimeter-sized biomedical implants 2016 ,		12	
150	Adaptive Matching Transmitter With Dual-Band Antenna for Intraoral Tongue Drive System. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018 , 12, 1279-1288	5.1	12	
149	Evaluation of a closed loop inductive power transmission system on an awake behaving animal subject. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 7658-61	0.9	11	
148	Optimal Design of Passive Resonating Wireless Sensors for Wearable and Implantable Devices. <i>IEEE Sensors Journal</i> , 2019 , 19, 7460-7470	4	10	
147	Multichannel Wireless Neural Recording AFE Architectures: Analysis, Modeling, and Tradeoffs. <i>IEEE Design and Test</i> , 2016 , 33, 24-36	1.4	10	
146	Stimulation Efficiency With Decaying Exponential Waveforms in a Wirelessly Powered Switched-Capacitor Discharge Stimulation System. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 1095-1106	5	10	
145	Tracheal activity recognition based on acoustic signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 1436-9	0.9	10	
144	Incorporating Back Telemetry in a Full-Wave CMOS Rectifier for RFID and Biomedical Applications 2007 ,		10	
143	Optimization of Tongue Gesture Processing Algorithm for Standalone Multimodal Tongue Drive System. <i>IEEE Sensors Journal</i> , 2019 , 19, 2704-2712	4	10	

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142	The Helping Hand: An Assistive Manipulation Framework Using Augmented Reality and Tongue-Drive Interfaces. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	10
141	2018 , 2018, 2158-2161 Supply-Doubled Pulse-Shaping High Voltage Pulser for CMUT Arrays. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018 , 65, 306-310	3.5	9
140	Millimeter-scale integrated and wirewound coils for powering implantable neural microsystems 2017 ,		9
139	Toward an Ultralow-Power Onboard Processor for Tongue Drive System. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2015 , 62, 174-178	3.5	9
138	A Magnetic Wireless Tongue-Computer Interface 2007 ,		9
137	Safety and efficacy of medically performed tongue piercing in people with tetraplegia for use with tongue-operated assistive technology. <i>Topics in Spinal Cord Injury Rehabilitation</i> , 2015 , 21, 61-76	1.5	9
136	A Multiphase Resonance-Based Boosting Rectifier With Dual Outputs for Wireless Power Transmission. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 2680-2689	7.2	9
135	Comparing the Use of Single vs. Multiple Combined Abilities in Conducting Complex Computer Tasks Hands-free. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 ,	4.8	9
134	Analytical Modeling of Small, Solenoidal, and Implantable Coils With Ferrite Tube Core. <i>IEEE Microwave and Wireless Components Letters</i> , 2019 , 29, 237-239	2.6	8
133	Inductively coupled, mm-sized, single channel optical neuro-stimulator with intensity enhancer. <i>Microsystems and Nanoengineering</i> , 2019 , 5, 23	7.7	8
133		7.7	8
	Microsystems and Nanoengineering, 2019 , 5, 23	7.7	
132	Microsystems and Nanoengineering, 2019, 5, 23 2018,	0.9	8
132	Microsystems and Nanoengineering, 2019, 5, 23 2018, A dual-mode passive rectifier for wide-range input power flow 2017, Wireless control of smartphones with tongue motion using tongue drive assistive technology. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE		8
132 131 130	Microsystems and Nanoengineering, 2019, 5, 23 2018, A dual-mode passive rectifier for wide-range input power flow 2017, Wireless control of smartphones with tongue motion using tongue drive assistive technology. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010, 2010, 5250-3 A comprehensive method for magnetic sensor calibration: a precise system for 3-D tracking of the tongue movements. Annual International Conference of the IEEE Engineering in Medicine and Biology	0.9	8 8
132 131 130	2018, A dual-mode passive rectifier for wide-range input power flow 2017, Wireless control of smartphones with tongue motion using tongue drive assistive technology. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010, 2010, 5250-3 A comprehensive method for magnetic sensor calibration: a precise system for 3-D tracking of the tongue movements. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, A Wireless Pharmaceutical Compliance Monitoring System Based on Magneto-Inductive Sensors.	0.9	8 8 8 8 8
132 131 130 129	A dual-mode passive rectifier for wide-range input power flow 2017, Wireless control of smartphones with tongue motion using tongue drive assistive technology. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010, 2010, 5250-3 A comprehensive method for magnetic sensor calibration: a precise system for 3-D tracking of the tongue movements. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, A Wireless Pharmaceutical Compliance Monitoring System Based on Magneto-Inductive Sensors. IEEE Sensors Journal, 2007, 7, 1711-1719 A multichannel monolithic wireless microstimulator. Annual International Conference of the IEEE	0.9	8 8 8 8

124	Detecting food intake acoustic events in noisy recordings using template matching 2016,		7
123	A Bio-Impedance Measurement IC for Neural Interface Applications 2018,		7
122	Towards a free-floating wireless implantable optogenetic stimulating system 2017,		6
121	Time-division multiplexing for cable reduction in ultrasound imaging catheters 2015,		6
120	A closed-loop wireless homecage for optogenetic stimulation experiments 2015,		6
119	A wireless implantable switched-capacitor based optogenetic stimulating system. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 878-81	0.9	6
118	Design, modeling and characterization of a 35MHz 1-D CMUT phased array 2013,		6
117	Using Fitts's law for evaluating Tongue Drive System as a pointing device for computer access. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010 , 2010, 4403-6	0.9	6
116	A closed loop wireless power transmission system using a commercial RFID transceiver for biomedical applications. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	6
115	2009 , 2009, 3841-4 A high efficiency full-wave rectifier in standard CMOS Technology. <i>Midwest Symposium on Circuits and Systems</i> , 2007 ,	1	6
114	A High-Voltage Output Driver for Implantable Biomedical Stimulators and I/O Applications 2006,		6
113	A 15-Channel Wireless Neural Recording System Based on Time Division Multiplexing of Pulse Width Modulated Signals 2006 ,		6
112	An Independent Tongue-Operated Assistive System for Both Access and Mobility. <i>IEEE Sensors Journal</i> , 2018 , 18, 9401-9409	4	6
111	Triple-Band Transmitter with a Shared Dual-Band Antenna and Adaptive Matching for an Intraoral Tongue Drive System 2018 ,		6
110	Toward a distributed free-floating wireless implantable neural recording system. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 4495-4498	0.9	5
109	A wirelessly-powered homecage with animal behavior analysis and closed-loop power control. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016 , 2016, 6323-6326	0.9	5
108	Tongue implant for assistive technologies: Test of migration, tissue reactivity and impact on tongue function. <i>Archives of Oral Biology</i> , 2016 , 71, 1-9	2.8	5
107	A Stand-Alone Intraoral Tongue-Controlled Computer Interface for People With Tetraplegia. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2019 , 13, 848-857	5.1	5

106	Older Adults Perceptions of a Neckwear Health Technology. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2014 , 58, 1815-1819	0.4	5
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