Maysam Ghovanloo

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.

267 6,633 40 72 g-index

299 7,879 3.3 6.54 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
267	Introduction to Wireless Power Transfer 2021 , 1-14		O
266	Inductive Link: Basic Theoretical Model 2021 , 15-52		
265	Inductive Link: Practical Aspects 2021 , 53-75		
264	Back Telemetry 2021 , 77-91		
263	Adaptive Circuits to Track the Optimum Operating Point (OOP) 2021 , 129-148		
262	Closed-Loop WPT Links 2021 , 149-187		
261	System Design Examples 2021 , 189-216		
2 60	Microfabrication, Coil Characterization, and Hermetic Packaging of Millimeter-Sized Free-Floating Neural Probes. <i>IEEE Sensors Journal</i> , 2021 , 21, 13837-13848	4	3
259	An omnidirectional WPT platform for distributed fully implanted neural recording systems. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2021 , 66, 339-357	0.4	
258	Wearable and non-invasive assistive technologies 2021 , 593-627		1
257	Design and Preliminary Evaluation of a Tongue-Operated Exoskeleton System for Upper Limb Rehabilitation. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	1
256	Analytical layout optimization of printed planar coil with variable trace width for inductive wireless power transfer. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2021 , 67, 113-129	0.4	
255	Guest Editorial Selected Papers from the 2021 IEEE International Solid-State Circuits Conference. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2021 , 15, 1221-1223	5.1	
254	Highly Integrated Guidewire Ultrasound Imaging System-on-a-Chip. <i>IEEE Journal of Solid-State Circuits</i> , 2020 , 55, 1310-1323	5.5	4
253	A Power-Efficient Bridge Readout Circuit for Implantable, Wearable, and IoT Applications. <i>IEEE Sensors Journal</i> , 2020 , 20, 9955-9962	4	3
252	2020,		3
251	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

(2019-2020)

250	Toward a High-Throughput Wireless Smart Arena for Behavioral Experiments on Small Animals. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 2359-2369	5	3
249	A mm-Sized Free-Floating Wireless Implantable Opto-Electro Stimulation Device. <i>Micromachines</i> , 2020 , 11,	3.3	2
248	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
247	An Adaptive Impedance Matching Transmitter for a Wireless Intraoral Tongue-Controlled Assistive Technology. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 240-244	3.5	3
246	A Reconfigurable Passive Voltage Multiplier for Wireless Mobile IoT Applications. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 615-619	3.5	5
245	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
244	Supply-Inverted Bipolar Pulser and Tx/Rx Switch for CMUTs Above the Process Limit for High Pressure Pulse Generation. <i>IEEE Sensors Journal</i> , 2019 , 19, 12050-12058	4	
243	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
242	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
241	Inductively coupled, mm-sized, single channel optical neuro-stimulator with intensity enhancer. <i>Microsystems and Nanoengineering</i> , 2019 , 5, 23	7.7	8
240	Optimal Design of Passive Resonating Wireless Sensors for Wearable and Implantable Devices. <i>IEEE Sensors Journal</i> , 2019 , 19, 7460-7470	4	10
239	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
238	An Overview of Data Telemetry in Inductively Powered Implantable Biomedical Devices. <i>IEEE Communications Magazine</i> , 2019 , 57, 74-80	9.1	22
237	Early Decoding of Tongue-Hand Movement from EEG Recordings Using Dynamic Functional Connectivity Graphs 2019 ,		4
236	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
235	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
234	A Deep Neural Network-Based Permanent Magnet Localization for Tongue Tracking. <i>IEEE Sensors Journal</i> , 2019 , 19, 9324-9331	4	15
233	A Software-Defined Radio Receiver for Wireless Recording From Freely Behaving Animals. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2019 , 13, 1645-1654	5.1	3

232	Automated High-Throughput Hermetic Failure Monitoring System for Millimeter-Sized Wireless Implantable Medical Devices 2019 ,		4
231	Towards a mm-Sized Free-Floating Wireless Implantable Opto-Electro Stimulation Device 2019 ,		3
230	Optimization of Tongue Gesture Processing Algorithm for Standalone Multimodal Tongue Drive System. <i>IEEE Sensors Journal</i> , 2019 , 19, 2704-2712	4	10
229	An Impulse Radio PWM-Based Wireless Data Acquisition Sensor Interface. <i>IEEE Sensors Journal</i> , 2019 , 19, 603-614	4	5
228	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
227	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
226	Simultaneous Multimodal PC Access for People With Disabilities by Integrating Head Tracking, Speech Recognition, and Tongue Motion. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018 , 12, 192-201	5.1	19
225	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
224	A mm-sized free-floating wirelessly powered implantable optical stimulating system-on-a-chip 2018 ,		20
223	An automated behavior analysis system for freely moving rodents using depth image. <i>Medical and Biological Engineering and Computing</i> , 2018 , 56, 1807-1821	3.1	18
222	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
221	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
220	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
219	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
218	2018,		8
217	Chip-Scale Coils for Millimeter-Sized Bio-Implants. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018 , 12, 1088-1099	5.1	28
216	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
215	Single-chip reduced-wire active catheter system with programmable transmit beamforming and receive time-division multiplexing for intracardiac echocardiography 2018,		4

214	2018,		19
213	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
212	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
211	Single-Chip Reduced-Wire CMUT-on-CMOS System for Intracardiac Echocardiography 2018,		4
210	Towards Phoneme Landmarks Identification for American-English using a Multimodal Speech Capture System 2018 ,		2
209	Preliminary Test of a Wireless Magnetic Tongue Tracking System for Silent Speech Interface 2018 ,		4
208	Toward A Robust Multi-Antenna Receiver for Wireless Recording From Freely-Behaving Animals 2018 ,		3
207	Online Predictive Modeling for the Thermal Effect of Implantable Devices 2018,		3
206	Simultaneous Multimodal Access to Wheelchair and Computer for People with Tetraplegia 2018,		2
205	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
204	Hands-Free Assistive Manipulator Using Augmented Reality and Tongue Drive System 2018,		1
203	Development and Preliminary Assessment of an Arch-Shaped Stand-Alone Intraoral Tongue Drive System for People with Tetraplegia 2018 ,		2
202	A Bio-Impedance Measurement IC for Neural Interface Applications 2018,		7
201	Toward an Energy-Efficient Bridge-to-Digital Intracranial Pressure Sensing Interface 2018,		1
200	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
199	2018 , 2018, 2158-2161 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
198	An Independent Tongue-Operated Assistive System for Both Access and Mobility. <i>IEEE Sensors Journal</i> , 2018 , 18, 9401-9409	4	6
197	Adaptive Matching Transmitter With Dual-Band Antenna for Intraoral Tongue Drive System. <i>IEEE</i> Transactions on Biomedical Circuits and Systems, 2018 , 12, 1279-1288	5.1	12

196	Wireless opto-electro neural interface for experiments with small freely behaving animals. <i>Journal of Neural Engineering</i> , 2018 , 15, 046032	5	34
195	Triple-Band Transmitter with a Shared Dual-Band Antenna and Adaptive Matching for an Intraoral Tongue Drive System 2018 ,		6
194	Multimodal Speech Capture System for Speech Rehabilitation and Learning. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2639-2649	5	16
193	Unobtrusive and Wearable Systems for Automatic Dietary Monitoring. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2075-2089	5	41
192	Position and Orientation Insensitive Wireless Power Transmission for EnerCage-Homecage System. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2439-2449	5	37
191	Magnetic implants in the tongue for assistive technologies: Tests of migration; oromotor function; and tissue response in miniature pigs. <i>Archives of Oral Biology</i> , 2017 , 81, 81-89	2.8	1
190	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
189	Tapping into tongue motion to substitute or augment upper limbs 2017,		3
188	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
187	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
186	A Dual-Mode Magnetic-Acoustic System for Monitoring Fluid Intake Behavior in Animals. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2090-2097	5	2
185	Towards a free-floating wireless implantable optogenetic stimulating system 2017,		6
184	Optimizing three-phase three-layer coil array for omnidirectional wireless power transfer 2017,		1
183	A Real-Time Embedded FPGA Processor for a Stand-Alone Dual-Mode Assistive Device 2017 ,		2
182	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
181	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
180	. IEEE Circuits and Systems Magazine, 2017 , 17, 64-82	3.2	15
179	Efficacy Assessment of multimodal Tongue Drive System (mTDS) in Comparison to Keyboard and Mouse (KnM). <i>Archives of Physical Medicine and Rehabilitation</i> , 2017 , 98, e163-e164	2.8	4

178	Millimeter-scale integrated and wirewound coils for powering implantable neural microsystems 2017 ,		9
177	An automated tracking system for Y-maze behavioral test using kinect depth imaging 2017 ,		1
176	A dual-mode passive rectifier for wide-range input power flow 2017,		8
175	An embedded FPGA accelerator for a stand-alone dual-mode assistive device 2017 ,		2
174	Towards a robust data link for intraoral tongue drive system using triple bands and adaptive matching 2017 ,		5
173	Improving Upper Extremity Function and Quality of Life with a Tongue Driven Exoskeleton: A Pilot Study Quantifying Stroke Rehabilitation. <i>Stroke Research and Treatment</i> , 2017 , 2017, 3603860	1.7	3
172	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
171	Toward a distributed free-floating wireless implantable neural recording system. <i>Annual</i> International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016 , 2016, 4495-4498	0.9	5
170	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
169	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
	ranction. Archives of Orac biology, 2010, 11, 1-2		
168			
168 167	Inductive Power Transmission Systems 2016 , 1-12 Assessment of the Tongue-Drive System Using a Computer, a Smartphone, and a	4.8	27
	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 89
167	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 A Triple-Loop Inductive Power Transmission System for Biomedical Applications. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2016 , 10, 138-48 Optimal Design of Wireless Power Transmission Links for Millimeter-Sized Biomedical Implants		
167 166	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 A Triple-Loop Inductive Power Transmission System for Biomedical Applications. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2016 , 10, 138-48 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	89
167 166	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 A Triple-Loop Inductive Power Transmission System for Biomedical Applications. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2016 , 10, 138-48 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 A Vision-Based Respiration Monitoring System for Passive Airway Resistance Estimation. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 1904-1913	5.1	89 152
167 166 165	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 A Triple-Loop Inductive Power Transmission System for Biomedical Applications. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2016, 10, 138-48 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 A Vision-Based Respiration Monitoring System for Passive Airway Resistance Estimation. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 1904-1913 Multichannel Wireless Neural Recording AFE Architectures: Analysis, Modeling, and Tradeoffs. <i>IEEE Design and Test</i> , 2016, 33, 24-36	5.1 5.1	89 152 12
167 166 165 164	Inductive Power Transmission Systems 2016, 1-12 Assessment of the Tongue-Drive System Using a Computer, a Smartphone, and a Powered-Wheelchair by People With Tetraplegia. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 68-78 A Triple-Loop Inductive Power Transmission System for Biomedical Applications. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 138-48 Optimal Design of Wireless Power Transmission Links for Millimeter-Sized Biomedical Implants. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 125-37 A Vision-Based Respiration Monitoring System for Passive Airway Resistance Estimation. IEEE Transactions on Biomedical Engineering, 2016, 63, 1904-1913 Multichannel Wireless Neural Recording AFE Architectures: Analysis, Modeling, and Tradeoffs. IEEE Design and Test, 2016, 33, 24-36 Three-Phase Time-Multiplexed Planar Power Transmission to Distributed Implants. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 263-272	5.1 5.1 5	89 152 12

160	Tongue-controlled robotic rehabilitation: A feasibility study in people with stroke. <i>Journal of Rehabilitation Research and Development</i> , 2016 , 53, 989-1006		8
159	Fabrication and Microassembly of a mm-Sized Floating Probe for a Distributed Wireless Neural Interface. <i>Micromachines</i> , 2016 , 7,	3.3	27
158	Modeling and optimization of mm-sized solenoid coils for biomedical implants 2016,		1
157	Towards a wireless multimodal speech capture system 2016 ,		1
156	Optimal design of a 3-coil inductive link for millimeter-sized biomedical implants 2016,		12
155	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
154	Detecting food intake acoustic events in noisy recordings using template matching 2016 ,		7
153	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
152	Ultra-Thin Wireless Power Module with Integration of Wireless Inductive Link and Supercapacitors 2016 ,		2
151	Energy management integrated circuits for wireless power transmission 2015 , 87-111		1
150	Corrections to A Power-Efficient Switched-Capacitor Stimulating System for Electrical/Optical Deep-Brain Stimulation[[Jan 15 360-374]. <i>IEEE Journal of Solid-State Circuits</i> , 2015 , 50, 1736-1736	5.5	
149	Energy-efficient switching scheme in SAR ADC for biomedical electronics. <i>Electronics Letters</i> , 2015 , 51, 676-678	1.1	35
148	12.7 A power-management ASIC with Q-modulation capability for efficient inductive power transmission 2015 ,		17
147	A Smart Wirelessly Powered Homecage for Long-Term High-Throughput Behavioral Experiments. <i>IEEE Sensors Journal</i> , 2015 , 15, 4905-4916	4	30
146	A Q-Modulation Technique for Efficient Inductive Power Transmission. <i>IEEE Journal of Solid-State Circuits</i> , 2015 , 50, 2839-2848	5.5	57
145	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
144	Towards a three-phase time-multiplexed planar power transmission to distributed implants 2015,		3
143	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

(2014-2015)

142	A multimodal human computer interface combining head movement, speech and tongue motion for people with severe disabilities 2015 ,		13
141	Toward Silent-Speech Control of Consumer Wearables. <i>Computer</i> , 2015 , 48, 54-62	1.6	12
140	Time-division multiplexing for cable reduction in ultrasound imaging catheters 2015,		6
139	Advanced wireless power and data transmission techniques for implantable medical devices 2015,		5
138	Source separation for target enhancement of food intake acoustics from noisy recordings 2015,		5
137	Joint power and thermal management for implantable devices 2015,		2
136	A closed-loop wireless homecage for optogenetic stimulation experiments 2015 ,		6
135	A multi-cycle Q-modulation technique for wirelessly-powered biomedical implants 2015,		4
134	Towards a kinect-based behavior recognition and analysis system for small animals 2015,		12
133	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
132	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
131	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
130	Design and Fabricate Neckwear to Improve the Elderly Patients Medical Compliance. <i>Lecture Notes in Computer Science</i> , 2015 , 222-234	0.9	5
129	Centimeter-Range Inductive Radios. Integrated Circuits and Systems, 2015, 313-341	0.2	2
128	Power-Efficient Wireless Neural Stimulating System Design for Implantable Medical Devices. <i>IEIE Transactions on Smart Processing and Computing</i> , 2015 , 4, 133-140	1.2	2
127	Near-Field Wireless Power and Data Transmission to Implantable Neuroprosthetic Devices 2014 , 189-21	5	1
126	EnerCage: a smart experimental arena with scalable architecture for behavioral experiments. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 139-48	5	42
125	Inductive Coupling 2014 , 174-208		4

124	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
123	Enhanced Wireless Power Transmission Using Strong Paramagnetic Response. <i>IEEE Transactions on Magnetics</i> , 2014 , 50,	2	28
122	A wireless slanted optrode array with integrated micro leds for optogenetics 2014,		20
121	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
120	A PWM-IR-UWB transceiver for low-power data communication 2014 ,		4
119	A dual slope charge sampling analog front-end for a wireless 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> , 2014 , 2014, 3134-7	0.9	4
118	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
117	An arch-shaped intraoral tongue drive system with built-in tongue-computer interfacing SoC. <i>Sensors</i> , 2014 , 14, 21565-87	3.8	16
116	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
115	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
114	Toward a reduced-wire readout system for ultrasound imaging. <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, 5080-4	0.9	3
113	Real-time swallowing detection based on tracheal acoustics 2014 ,		20
112	2014,		5
111	A smart homecage system with 3D tracking for long-term behavioral experiments. <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 , 2016-9	0.9	2
110	Smartphone-compatible robust classification algorithm for the Tongue Drive System 2014,		3
109	Development of a tongue-piercing method for use with assistive technology. <i>JAMA Dermatology</i> , 2014 , 150, 453-4	5.1	3
108	Tracheal activity recognition based on acoustic signals. <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, 1436-9	0.9	10
107	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

106	A 13-bit Noise Shaping SAR-ADC with Dual-Polarity Digital Calibration. <i>Analog Integrated Circuits and Signal Processing</i> , 2013 , 75, 459-465	1.2	4
105	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
104	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
103	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
102	Motivational conditions influence tongue motor performance. <i>European Journal of Oral Sciences</i> , 2013 , 121, 111-6	2.3	15
101	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
100	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
99	Design, modeling and characterization of a 35MHz 1-D CMUT phased array 2013 ,		6
98	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
97	The tongue enables computer and wheelchair control for people with spinal cord injury. <i>Science Translational Medicine</i> , 2013 , 5, 213ra166	17.5	66
96	A smart cage for behavioral experiments on small freely behaving animal subjects 2013,		2
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