Maysam Ghovanloo

List of Publications by Year
in descending order

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294	8,939	57631	56606
papers	citations	44 h-index	83 g-index

299	299	299	5176
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Implantable and Wearable Sensors for Assistive Technologies. , 2023, , 449-473.		3
2	An Adaptive Element-Level Impedance-Matched ASIC With Improved Acoustic Reflectivity for Medical Ultrasound Imaging. IEEE Transactions on Biomedical Circuits and Systems, 2022, 16, 492-501.	2.7	2
3	Wearable and non-invasive assistive technologies. , 2021, , 593-627.		2
4	Microfabrication, Coil Characterization, and Hermetic Packaging of Millimeter-Sized Free-Floating Neural Probes. IEEE Sensors Journal, 2021, 21, 13837-13848.	2.4	5
5	An omnidirectional WPT platform for distributed fully implanted neural recording systems. International Journal of Applied Electromagnetics and Mechanics, 2021, 66, 339-357.	0.3	0
6	Design and Preliminary Evaluation of a Tongue-Operated Exoskeleton System for Upper Limb Rehabilitation. International Journal of Environmental Research and Public Health, 2021, 18, 8708.	1.2	4
7	Analytical layout optimization of printed planar coil with variable trace width for inductive wireless power transfer. International Journal of Applied Electromagnetics and Mechanics, 2021, 67, 113-129.	0.3	0
8	Introduction to Wireless Power Transfer. , 2021, , 1-14.		1
9	Inductive Link: Basic Theoretical Model. , 2021, , 15-52.		0
10	Inductive Link: Practical Aspects. , 2021, , 53-75.		0
11	Back Telemetry. , 2021, , 77-91.		2
12	Adaptive Circuits to Track the Optimum Operating Point (OOP). , 2021, , 129-148.		0
13	Closed-Loop WPT Links. , 2021, , 149-187.		0
14	System Design Examples. , 2021, , 189-216.		0
15	An Ultrasound Imaging Front-End System-on-a-Chip with Element-Level Impedance Matching for Acoustic Reflectivity Reduction. , 2021, , .		3
16	Guest Editorial Selected Papers from the 2021 IEEE International Solid-State Circuits Conference. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 1221-1223.	2.7	0
17	An Adaptive Impedance Matching Transmitter for a Wireless Intraoral Tongue-Controlled Assistive Technology. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 240-244.	2.2	7
18	A Reconfigurable Passive Voltage Multiplier for Wireless Mobile IoT Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 615-619.	2.2	13

#	Article	IF	Citations
19	A Multiphase Resonance-Based Boosting Rectifier With Dual Outputs for Wireless Power Transmission. IEEE Transactions on Power Electronics, 2020, 35, 2680-2689.	5.4	10
20	Toward a High-Throughput Wireless Smart Arena for Behavioral Experiments on Small Animals. IEEE Transactions on Biomedical Engineering, 2020, 67, 2359-2369.	2.5	7
21	A mm-Sized Free-Floating Wireless Implantable Opto-Electro Stimulation Device. Micromachines, 2020, 11, 621.	1.4	4
22	PANACEA: An Internet of Bio-NanoThings Application for Early Detection and Mitigation of Infectious Diseases. IEEE Access, 2020, 8, 140512-140523.	2.6	40
23	Preliminary Assessment of a Novel Intraoral-Tongue Operated Assistive Technology with Computer Interface. , 2020, , .		1
24	Design of Reactive Resonant Shielding for Multi-EnerCage-HC System. , 2020, , .		1
25	Highly Integrated Guidewire Ultrasound Imaging System-on-a-Chip. IEEE Journal of Solid-State Circuits, 2020, 55, 1310-1323.	3.5	15
26	A Power-Efficient Bridge Readout Circuit for Implantable, Wearable, and IoT Applications. IEEE Sensors Journal, 2020, 20, 9955-9962.	2.4	12
27	26.8 A Trimodal Wireless Implantable Neural Interface System-on-Chip. , 2020, , .		14
28	A Trimodal Wireless Implantable Neural Interface System-on-Chip. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 1207-1217.	2.7	58
29	Early Decoding of Tongue-Hand Movement from EEG Recordings Using Dynamic Functional Connectivity Graphs. , 2019, , .		6
30	A mm-Sized Free-Floating Wirelessly Powered Implantable Optical Stimulation Device. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 608-618.	2.7	33
31	A Stand-Alone Intraoral Tongue-Controlled Computer Interface for People With Tetraplegia. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 848-857.	2.7	12
32	A Deep Neural Network-Based Permanent Magnet Localization for Tongue Tracking. IEEE Sensors Journal, 2019, 19, 9324-9331.	2.4	29
33	A Software-Defined Radio Receiver for Wireless Recording From Freely Behaving Animals. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 1645-1654.	2.7	9
34	Supply-Inverted Bipolar Pulser and Tx/Rx Switch for CMUTs Above the Process Limit for High Pressure Pulse Generation. IEEE Sensors Journal, 2019, 19, 12050-12058.	2.4	2
35	Analytical Modeling of Small, Solenoidal, and Implantable Coils With Ferrite Tube Core. IEEE Microwave and Wireless Components Letters, 2019, 29, 237-239.	2.0	12
36	A Reconfigurable Passive RF-to-DC Converter for Wireless IoT Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1800-1804.	2.2	25

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37	Inductively coupled, mm-sized, single channel optical neuro-stimulator with intensity enhancer. Microsystems and Nanoengineering, 2019, 5, 23.	3.4	12
38	Optimal Design of Passive Resonating Wireless Sensors for Wearable and Implantable Devices. IEEE Sensors Journal, 2019, 19, 7460-7470.	2.4	13
39	A Dual-Band Wireless Power Transmission System for Evaluating mm-Sized Implants. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 595-607.	2.7	34
40	An Overview of Data Telemetry in Inductively Powered Implantable Biomedical Devices. IEEE Communications Magazine, 2019, 57, 74-80.	4.9	36
41	Automated High-Throughput Hermetic Failure Monitoring System for Millimeter-Sized Wireless Implantable Medical Devices. , 2019, , .		4
42	Towards a mm-Sized Free-Floating Wireless Implantable Opto-Electro Stimulation Device. , 2019, , .		5
43	Optimization of Tongue Gesture Processing Algorithm for Standalone Multimodal Tongue Drive System. IEEE Sensors Journal, 2019, 19, 2704-2712.	2.4	16
44	An Impulse Radio PWM-Based Wireless Data Acquisition Sensor Interface. IEEE Sensors Journal, 2019, 19, 603-614.	2.4	10
45	An Inductively-Powered Wireless Neural Recording and Stimulation System for Freely-Behaving Animals. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 413-424.	2.7	53
46	Antennas for Intraoral Tongue Drive System at 2.4 GHz: Design, Characterization, and Comparison. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 2546-2555.	2.9	25
47	Simultaneous Multimodal PC Access for People With Disabilities by Integrating Head Tracking, Speech Recognition, and Tongue Motion. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 192-201.	2.7	26
48	A Low-Power Wearable Stand-Alone Tongue Drive System for People With Severe Disabilities. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 58-67.	2.7	24
49	A mm-sized free-floating wirelessly powered implantable optical stimulating system-on-a-chip. , 2018, , .		31
50	An automated behavior analysis system for freely moving rodents using depth image. Medical and Biological Engineering and Computing, 2018, 56, 1807-1821.	1.6	25
51	Joint Magnetic Calibration and Localization Based on Expectation Maximization for Tongue Tracking. IEEE Transactions on Biomedical Engineering, 2018, 65, 52-63.	2.5	21
52	Supply-Doubled Pulse-Shaping High Voltage Pulser for CMUT Arrays. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 306-310.	2.2	13
53	Optimal Design of a Resonance-Based Voltage Boosting Rectifier for Wireless Power Transmission. IEEE Transactions on Industrial Electronics, 2018, 65, 1645-1654.	5.2	17
54	An Adaptive Averaging Low Noise Front-End for Central and Peripheral Nerve Recording. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 839-843.	2.2	19

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55	Single-Chip Reduced-Wire CMUT-on-CMOS System for Intracardiac Echocardiography. , 2018, , .		8
56	Standalone Assistive System to Employ Multiple Remaining Abilities in People with Tetraplegia. , 2018, , .		3
57	Towards Phoneme Landmarks Identification for American-English using a Multimodal Speech Capture System. , 2018, , .		2
58	Preliminary Test of a Wireless Magnetic Tongue Tracking System for Silent Speech Interface. , 2018, , .		7
59	Toward A Robust Multi-Antenna Receiver for Wireless Recording From Freely-Behaving Animals. , 2018, , .		4
60	Online Predictive Modeling for the Thermal Effect of Implantable Devices. , 2018, , .		4
61	Simultaneous Multimodal Access to Wheelchair and Computer for People with Tetraplegia. , 2018, , .		6
62	A Reduced-Wire ICE Catheter ASIC With Tx Beamforming and Rx Time-Division Multiplexing. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 1246-1255.	2.7	24
63	Hands-Free Assistive Manipulator Using Augmented Reality and Tongue Drive System. , 2018, , .		3
64	Power Efficiency and Power Delivery Measurement in Inductive Links with Arbitrary Source and Load Impedance Values. , 2018, , .		2
65	Development and Preliminary Assessment of an Arch-Shaped Stand-Alone Intraoral Tongue Drive System for People with Tetraplegia. , 2018, , .		3
66	Deep Convolutional Neural Networks for Automated Convulsion Scoring using RGB-D Images. , 2018, , .		0
67	A Bio-Impedance Measurement IC for Neural Interface Applications. , 2018, , .		10
68	Toward an Energy-Efficient Bridge-to-Digital Intracranial Pressure Sensing Interface. , 2018, , .		2
69	The Helping Hand: An Assistive Manipulation Framework Using Augmented Reality and Tongue-Drive Interfaces. , 2018, 2018, 2158-2161.		17
70	Comparing the Use of Single Versus Multiple Combined Abilities in Conducting Complex Computer Tasks Hands-Free. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1868-1877.	2.7	12
71	An Independent Tongue-Operated Assistive System for Both Access and Mobility. IEEE Sensors Journal, 2018, 18, 9401-9409.	2.4	12
72	Adaptive Matching Transmitter With Dual-Band Antenna for Intraoral Tongue Drive System. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 1279-1288.	2.7	20

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73	Wireless opto-electro neural interface for experiments with small freely behaving animals. Journal of Neural Engineering, 2018, 15, 046032.	1.8	39
74	Triple-Band Transmitter with a Shared Dual-Band Antenna and Adaptive Matching for an Intraoral Tongue Drive System. , 2018, , .		8
75	Chronic Electrical Stimulation Promotes the Excitability and Plasticity of ESC-derived Neurons following Glutamate-induced Inhibition In vitro. Scientific Reports, 2018, 8, 10957.	1.6	33
76	A miniaturized, wirelessly-powered, reflector-coupled single channel opto neurostimulator. , 2018, , .		8
77	Chip-Scale Coils for Millimeter-Sized Bio-Implants. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 1088-1099.	2.7	38
78	An Implantable Peripheral Nerve Recording and Stimulation System for Experiments on Freely Moving Animal Subjects. Scientific Reports, 2018, 8, 6115.	1.6	77
79	Single-chip reduced-wire active catheter system with programmable transmit beamforming and receive time-division multiplexing for intracardiac echocardiography. , 2018, , .		8
80	Highly-integrated guidewire vascular ultrasound imaging system-on-a-chip. , 2018, , .		1
81	Towards a 1.1 mm‹sup›2‹/sup› free-floating wireless implantable neural recording SoC. , 2018, , .		27
82	Multimodal Speech Capture System for Speech Rehabilitation and Learning. IEEE Transactions on Biomedical Engineering, 2017, 64, 2639-2649.	2.5	25
83	Unobtrusive and Wearable Systems for Automatic Dietary Monitoring. IEEE Transactions on Biomedical Engineering, 2017, 64, 2075-2089.	2.5	52
84	Position and Orientation Insensitive Wireless Power Transmission for EnerCage-Homecage System. IEEE Transactions on Biomedical Engineering, 2017, 64, 2439-2449.	2.5	50
85	Magnetic implants in the tongue for assistive technologies: Tests of migration; oromotor function; and tissue response in miniature pigs. Archives of Oral Biology, 2017, 81, 81-89.	0.8	4
86	Robust Wireless Power Transmission to mm-Sized Free-Floating Distributed Implants. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 692-702.	2.7	94
87	Tapping into tongue motion to substitute or augment upper limbs. Proceedings of SPIE, 2017, , .	0.8	4
88	All-soft, battery-free, and wireless chemical sensing platform based on liquid metal for liquid- and gas-phase VOC detection. Lab on A Chip, 2017, 17, 2323-2329.	3.1	40
89	Analytical Modeling and Optimization of Small Solenoid Coils for Millimeter-Sized Biomedical Implants. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1024-1035.	2.9	51
90	A Dual-Mode Magneticâ€“Acoustic System for Monitoring Fluid Intake Behavior in Animals. IEEE Transactions on Biomedical Engineering, 2017, 64, 2090-2097.	2.5	2

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91	Optimizing three-phase three-layer coil array for omnidirectional wireless power transfer. , 2017, , .		4
92	A Real-Time Embedded FPGA Processor for a Stand-Alone Dual-Mode Assistive Device. , 2017, , .		2
93	Towards a Reduced-Wire Interface for CMUT-Based Intravascular Ultrasound Imaging Systems. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 400-410.	2.7	37
94	Feasibility Study on Active Back Telemetry and Power Transmission Through an Inductive Link for Millimeter-Sized Biomedical Implants. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 1366-1376.	2.7	38
95	Power Management in Wireless Power-Sipping Devices: A Survey. IEEE Circuits and Systems Magazine, 2017, 17, 64-82.	2.6	23
96	Efficacy Assessment of multimodal Tongue Drive System (mTDS) in Comparison to Keyboard and Mouse (KnM). Archives of Physical Medicine and Rehabilitation, 2017, 98, e163-e164.	0.5	7
97	Millimeter-scale integrated and wirewound coils for powering implantable neural microsystems. , 2017, , .		10
98	Beyond supply-voltage bootstrapped pulser for driving CMUT arrays in ultrasound imaging. , 2017, , .		0
99	Modeling of mm-sized solenoid coils with ferrite tube core for biomedical implants. , 2017, , .		0
100	An automated tracking system for Y-maze behavioral test using kinect depth imaging. , 2017, , .		1
101	A dual-mode passive rectifier for wide-range input power flow. , 2017, , .		14
102	Stimulation Efficiency with Decaying Exponential Waveforms in a Wirelessly-Powered Switched-Capacitor Discharge Stimulation System. IEEE Transactions on Biomedical Engineering, 2017, 65, 1-1.	2.5	14
103	An embedded FPGA accelerator for a stand-alone dual-mode assistive device. , 2017, , .		3
104	Towards a robust data link for intraoral tongue drive system using triple bands and adaptive matching. , 2017, , .		5
105	Wireless coil array sensors for monitoring hermetic failure of millimeter-sized biomedical implants. , 2017, , .		1
106	Notice of Removal: Supply-inverted bipolar pulser and Tx/Rx switch for CMUTs capable of tolerating voltage levels above process limit. , 2017, , .		0
107	Improving Upper Extremity Function and Quality of Life with a Tongue Driven Exoskeleton: A Pilot Study Quantifying Stroke Rehabilitation. Stroke Research and Treatment, 2017, 2017, 1-13.	0.5	7
108	A feasibility study for MRI guided CMUT-based intracardiac echocardiography catheters. , 2017, , .		1

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109	A feasibility study for MRI guided CMUT-based intracardiac echocardiography catheters. , 2017, , .		2
110	Towards a free-floating wireless implantable optogenetic stimulating system. , 2017, , .		6
111	Tongue-controlled robotic rehabilitation: A feasibility study in people with stroke. Journal of Rehabilitation Research and Development, 2016, 53, 989-1006.	1.6	11
112	Fabrication and Microassembly of a mm-Sized Floating Probe for a Distributed Wireless Neural Interface. Micromachines, 2016, 7, 154.	1.4	31
113	Modeling and optimization of mm-sized solenoid coils for biomedical implants. , 2016, , .		3
114	Towards a wireless multimodal speech capture system. , 2016, , .		1
115	Optimal design of a 3-coil inductive link for millimeter-sized biomedical implants. , 2016, , .		15
116	A Multicycle Q-Modulation for Dynamic Optimization of Inductive Links. IEEE Transactions on Industrial Electronics, 2016, 63, 5091-5100.	5.2	37
117	Detecting food intake acoustic events in noisy recordings using template matching. , 2016, , .		14
118	Direct Digital Demultiplexing of Analog TDM Signals for Cable Reduction in Ultrasound Imaging Catheters. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1078-1085.	1.7	25
119	Ultra-Thin Wireless Power Module with Integration of Wireless Inductive Link and Supercapacitors. , 2016, , .		4
120	Front-end electronics for cable reduction in Intracardiac Echocardiography (ICE) catheters. , 2016, , .		3
121	A Wirelessly-Powered Homecage With Segmented Copper Foils and Closed-Loop Power Control. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 979-989.	2.7	29
122	Toward a distributed free-floating wireless implantable neural recording system. , 2016, 2016, 4495-4498.		9
123	A wirelessly-powered homecage with animal behavior analysis and closed-loop power control. , 2016, 2016, 6323-6326.		6
124	Tongue implant for assistive technologies: Test of migration, tissue reactivity and impact on tongue function. Archives of Oral Biology, 2016, 71, 1-9.	0.8	11
125	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.	2.7	44
126	A Triple-Loop Inductive Power Transmission System for Biomedical Applications. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 138-148.	2.7	120

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127	Optimal Design of Wireless Power Transmission Links for Millimeter-Sized Biomedical Implants. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 125-137.	2.7	200
128	A Vision-Based Respiration Monitoring System for Passive Airway Resistance Estimation. IEEE Transactions on Biomedical Engineering, 2016, 63, 1904-1913.	2.5	23
129	Multichannel Wireless Neural Recording AFE Architectures: Analysis, Modeling, and Tradeoffs. IEEE Design and Test, 2016, 33, 24-36.	1.1	13
130	Three-Phase Time-Multiplexed Planar Power Transmission to Distributed Implants. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 263-272.	3.7	51
131	An Inductively-Powered Wireless Neural Recording System With a Charge Sampling Analog Front-End. IEEE Sensors Journal, 2016, 16, 475-484.	2.4	38
132	Developing a Tongue Controlled Exoskeleton for a Wrist Tracking Exercise: A Preliminary Study1. Journal of Medical Devices, Transactions of the ASME, 2015, 9, .	0.4	2
133	Towards a three-phase time-multiplexed planar power transmission to distributed implants. , 2015, , .		4
134	Design, fabrication, and packaging of an integrated, wirelessly-powered optrode array for optogenetics application. Frontiers in Systems Neuroscience, 2015, 9, 69.	1.2	76
135	A multimodal human computer interface combining head movement, speech and tongue motion for people with severe disabilities. , 2015, , .		16
136	Toward Silent-Speech Control of Consumer Wearables. Computer, 2015, 48, 54-62.	1.2	24
137	On-chip reduced wire transceiver for high frequency CMUT imaging system. , 2015, , .		2
138	Time-division multiplexing for cable reduction in ultrasound imaging catheters. , 2015, , .		8
139	Advanced wireless power and data transmission techniques for implantable medical devices. , 2015, , .		8
140	Source separation for target enhancement of food intake acoustics from noisy recordings. , 2015, , .		6
141	Joint power and thermal management for implantable devices. , 2015, , .		2
142	Live demonstration: A smart homecage system with behavior analysis and closed-loop optogenetic stimulation capacibilities. , 2015, , .		0
143	A closed-loop wireless homecage for optogenetic stimulation experiments. , 2015, , .		8
144	A multi-cycle Q-modulation technique for wirelessly-powered biomedical implants. , 2015, , .		4

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145	Towards a kinect-based behavior recognition and analysis system for small animals. , 2015, , .		16
146	A Power-Efficient Switched-Capacitor Stimulating System for Electrical/Optical Deep Brain Stimulation. IEEE Journal of Solid-State Circuits, 2015, 50, 360-374.	3.5	117
147	Toward an Ultralow-Power Onboard Processor for Tongue Drive System. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 174-178.	2.2	12
148	Energy management integrated circuits for wireless power transmission. , 2015, , 87-111.		2
149	Corrections to â€œA Power-Efficient Switched-Capacitor Stimulating System for Electrical/Optical Deep-Brain Stimulationâ€•[Jan 15 360-374]. IEEE Journal of Solid-State Circuits, 2015, 50, 1736-1736.	3.5	0
150	Energyâ€efficient switching scheme in SAR ADC for biomedical electronics. Electronics Letters, 2015, 51, 676-678.	0.5	39
151	12.7 A power-management ASIC with Q-modulation capability for efficient inductive power transmission. , 2015, , .		23
152	A Smart Wirelessly Powered Homecage for Long-Term High-Throughput Behavioral Experiments. IEEE Sensors Journal, 2015, 15, 4905-4916.	2.4	39
153	A Q-Modulation Technique for Efficient Inductive Power Transmission. IEEE Journal of Solid-State Circuits, 2015, 50, 2839-2848.	3.5	71
154	A 13.56-Mbps Pulse Delay Modulation Based Transceiver for Simultaneous Near-Field Data and Power Transmission. IEEE Transactions on Biomedical Circuits and Systems, 2015, 9, 1-11.	2.7	78
155	Design and Fabricate Neckwear to Improve the Elderly Patientsâ€™ Medical Compliance. Lecture Notes in Computer Science, 2015, , 222-234.	1.0	6
156	Safety and Efficacy of Medically Performed Tongue Piercing in People with Tetraplegia for Use with Tongue-Operated Assistive Technology. Topics in Spinal Cord Injury Rehabilitation, 2015, 21, 61-76.	0.8	13
157	Centimeter-Range Inductive Radios. Integrated Circuits and Systems, 2015, , 313-341.	0.2	4
158	Power-Efficient Wireless Neural Stimulating System Design for Implantable Medical Devices. IEIE Transactions on Smart Processing and Computing, 2015, 4, 133-140.	0.3	3
159	A PWM-IR-UWB transceiver for low-power data communication. , 2014, , .		5
160	A dual slope charge sampling analog front-end for a wireless neural recording system. , 2014, 2014, 3134-7.		7
161	Time to address the problems at the neural interface. Journal of Neural Engineering, 2014, 11, 020201.	1.8	19
162	Qualitative assessment of Tongue Drive System by people with high-level spinal cord injury. Journal of Rehabilitation Research and Development, 2014, 51, 451-466.	1.6	25

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163	An Arch-Shaped Intraoral Tongue Drive System with Built-in Tongue-Computer Interfacing SoC. Sensors, 2014, 14, 21565-21587.	2.1	24
164	A wireless implantable switched-capacitor based optogenetic stimulating system. , 2014, 2014, 878-81.		8
165	Wireless Communication of Intraoral Devices and Its Optimal Frequency Selection. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 3205-3215.	2.9	20
166	Toward a reduced-wire readout system for ultrasound imaging. , 2014, 2014, 5080-4.		6
167	Real-time swallowing detection based on tracheal acoustics. , 2014, , .		32
168	Design of frequency-division multiplexing front-end receiver electronics for CMUT-on-CMOS based intracardiac echocardiography. , 2014, , .		9
169	A smart homecage system with 3D tracking for long-term behavioral experiments. , 2014, 2014, 2016-9.		2
170	Smartphone-compatible robust classification algorithm for the Tongue Drive System. , 2014, , .		4
171	Development of a Tongue-Piercing Method for Use With Assistive Technology. JAMA Dermatology, 2014, 150, 453.	2.0	5
172	Tracheal activity recognition based on acoustic signals. , 2014, 2014, 1436-9.		12
173	A passive quantitative measurement of airway resistance using depth data. , 2014, 2014, 5743-7.		18
174	Near-Field Wireless Power and Data Transmission to Implantable Neuroprosthetic Devices. , 2014, , 189-215.		1
175	EnerCage: A Smart Experimental Arena With Scalable Architecture for Behavioral Experiments. IEEE Transactions on Biomedical Engineering, 2014, 61, 139-148.	2.5	50
176	Tongue-Controlled Computer Game: A New Approach for Rehabilitation of Tongue Motor Function. Archives of Physical Medicine and Rehabilitation, 2014, 95, 524-530.	0.5	30
177	Enhanced Wireless Power Transmission Using Strong Paramagnetic Response. IEEE Transactions on Magnetics, 2014, 50, 96-103.	1.2	38
178	A wireless slanted optrode array with integrated micro leds for optogenetics. , 2014, , .		24
179	Older Adultsâ€™ Perceptions of a Neckwear Health Technology. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 1815-1819.	0.2	7
180	Geometrical Design of a Scalable Overlapping Planar Spiral Coil Array to Generate a Homogeneous Magnetic Field. IEEE Transactions on Magnetics, 2013, 49, 2933-2945.	1.2	56

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181	A Figure-of-Merit for Designing High-Performance Inductive Power Transmission Links. IEEE Transactions on Industrial Electronics, 2013, 60, 5292-5305.	5.2	115
182	A 13-bit noise shaping SARâ€“ADC with dual-polarity digital calibration. Analog Integrated Circuits and Signal Processing, 2013, 75, 459-465.	0.9	5
183	A Power-Efficient Wireless Capacitor Charging System Through an Inductive Link. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 707-711.	2.2	31
184	A 20-Mb/s Pulse Harmonic Modulation Transceiver for Wideband Near-Field Data Transmission. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 382-386.	2.2	35
185	A Power-Efficient Wireless System With Adaptive Supply Control for Deep Brain Stimulation. IEEE Journal of Solid-State Circuits, 2013, 48, 2203-2216.	3.5	177
186	Motivational conditions influence tongue motor performance. European Journal of Oral Sciences, 2013, 121, 111-116.	0.7	17
187	A Wideband Dual-Antenna Receiver for Wireless Recording From Animals Behaving in Large Arenas. IEEE Transactions on Biomedical Engineering, 2013, 60, 1993-2004.	2.5	29
188	A High Frequency Active Voltage Doubler in Standard CMOS Using Offset-Controlled Comparators for Inductive Power Transmission. IEEE Transactions on Biomedical Circuits and Systems, 2013, 7, 213-224.	2.7	49
189	Design, modeling and characterization of a 35MHz 1-D CMUT phased array. , 2013, , .		9
190	A Dual-Mode Human Computer Interface Combining Speech and Tongue Motion for People with Severe Disabilities. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 979-991.	2.7	36
191	The Tongue Enables Computer and Wheelchair Control for People with Spinal Cord Injury. Science Translational Medicine, 2013, 5, 213ra166.	5.8	96
192	A smart cage for behavioral experiments on small freely behaving animal subjects. , 2013, , .		3
193	Potential barriers in adoption of a medication compliance neckwear by elderly population. , 2013, 2013, 4678-81.		1
194	An apparatus for improving upper limb function by engaging synchronous tongue motion. , 2013, , .		4
195	Motor performance of tongue with a computer-integrated system under different levels of background physical exertion. Ergonomics, 2013, 56, 1733-1744.	1.1	3
196	Guest Editorialâ€"Selected Papers from the 2013 IEEE International Solid-State Circuits Conference (ISSCC). IEEE Transactions on Biomedical Circuits and Systems, 2013, 7, 733-734.	2.7	0
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