

Maysam Ghovanloo

List of Publications by Year in descending order

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294
papers

8,939
citations

57631

44
h-index

56606

83
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299
all docs

299
docs citations

299
times ranked

5176
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Optimization of Printed Spiral Coils for Efficient Transcutaneous Inductive Power Transmission. IEEE Transactions on Biomedical Circuits and Systems, 2007, 1, 193-202.	2.7	540
2	Design and Optimization of a 3-Coil Inductive Link for Efficient Wireless Power Transmission. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 579-591.	2.7	505
3	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.	3.5	345
4	Fully integrated wideband high-current rectifiers for inductively powered devices. IEEE Journal of Solid-State Circuits, 2004, 39, 1976-1984.	3.5	259
5	Modeling and Optimization of Printed Spiral Coils in Air, Saline, and Muscle Tissue Environments. IEEE Transactions on Biomedical Circuits and Systems, 2009, 3, 339-347.	2.7	256
6	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
7	A Magneto-Inductive Sensor Based Wireless Tongue-Computer Interface. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2008, 16, 497-504.	2.7	198
8	An Integrated Power-Efficient Active Rectifier With Offset-Controlled High Speed Comparators for Inductively Powered Applications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 1749-1760.	3.5	197
9	Dual-task motor performance with a tongue-operated assistive technology compared with hand operations. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 1.	2.4	179
10	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
11	A Wide-Band Power-Efficient Inductive Wireless Link for Implantable Microelectronic Devices Using Multiple Carriers. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 2211-2221.	0.1	171
12	An Inductively Powered Scalable 32-Channel Wireless Neural Recording System-on-a-Chip for Neuroscience Applications. IEEE Transactions on Biomedical Circuits and Systems, 2010, 4, 360-371.	2.7	161
13	An RFID-Based Closed-Loop Wireless Power Transmission System for Biomedical Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2010, 57, 260-264.	2.2	134
14	A Modular 32-site wireless neural stimulation microsystem. IEEE Journal of Solid-State Circuits, 2004, 39, 2457-2466.	3.5	129
15	A Wireless Implantable Multichannel Microstimulating System-on-a-Chip With Modular Architecture. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2007, 15, 449-457.	2.7	125
16	A Triple-Loop Inductive Power Transmission System for Biomedical Applications. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 138-148.	2.7	120
17	A Compact Large Voltage-Compliance High Output-Impedance Programmable Current Source for Implantable Microstimulators. IEEE Transactions on Biomedical Engineering, 2005, 52, 97-105.	2.5	117
18	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

#	ARTICLE	IF	CITATIONS
19	A Figure-of-Merit for Designing High-Performance Inductive Power Transmission Links. IEEE Transactions on Industrial Electronics, 2013, 60, 5292-5305.	5.2	115
20	An inductively powered scalable 32-channel wireless neural recording system-on-a-chip for neuroscience applications. , 2010, 2010, 120-121.		111
21	Optimization of Data Coils in a Multiband Wireless Link for Neuroprosthetic Implantable Devices. IEEE Transactions on Biomedical Circuits and Systems, 2010, 4, 301-310.	2.7	104
22	The Tongue Enables Computer and Wheelchair Control for People with Spinal Cord Injury. Science Translational Medicine, 2013, 5, 213ra166.	5.8	96
23	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
24	A Low-Noise Preamplifier with Adjustable Gain and Bandwidth for Biopotential Recording Applications. , 2007, , .		93
25	Evaluation of a wireless wearable tongue“computer interface by individuals with high-level spinal cord injuries. Journal of Neural Engineering, 2010, 7, 026008.	1.8	90
26	Using Unconstrained Tongue Motion as an Alternative Control Mechanism for Wheeled Mobility. IEEE Transactions on Biomedical Engineering, 2009, 56, 1719-1726.	2.5	85
27	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
28	An Implantable Peripheral Nerve Recording and Stimulation System for Experiments on Freely Moving Animal Subjects. Scientific Reports, 2018, 8, 6115.	1.6	77
29	Design, fabrication, and packaging of an integrated, wirelessly-powered optrode array for optogenetics application. Frontiers in Systems Neuroscience, 2015, 9, 69.	1.2	76
30	An Integrated Full-Wave CMOS Rectifier With Built-In Back Telemetry for RFID and Implantable Biomedical Applications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 3328-3334.	3.5	73
31	A Q-Modulation Technique for Efficient Inductive Power Transmission. IEEE Journal of Solid-State Circuits, 2015, 50, 2839-2848.	3.5	71
32	A Wireless Magnetoresistive Sensing System for an Intraoral Tongue-Computer Interface. IEEE Transactions on Biomedical Circuits and Systems, 2012, 6, 571-585.	2.7	65
33	A Trimodal Wireless Implantable Neural Interface System-on-Chip. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 1207-1217.	2.7	58
34	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
35	An adaptive reconfigurable active voltage doubler/rectifier for extended-range inductive power transmission. , 2012, , 286-288.		55
36	Evaluation of a Smartphone Platform as a Wireless Interface Between Tongue Drive System and Electric-Powered Wheelchairs. IEEE Transactions on Biomedical Engineering, 2012, 59, 1787-1796.	2.5	55

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37	A 10.2 Mbps Pulse Harmonic Modulation Based Transceiver for Implantable Medical Devices. IEEE Journal of Solid-State Circuits, 2011, 46, 1296-1306.	3.5	53
38	An Adaptive Reconfigurable Active Voltage Doubler/Rectifier for Extended-Range Inductive Power Transmission. IEEE Transactions on Circuits and Systems II: Express Briefs, 2012, 59, 481-485.	2.2	53
39	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
40	Unobtrusive and Wearable Systems for Automatic Dietary Monitoring. IEEE Transactions on Biomedical Engineering, 2017, 64, 2075-2089.	2.5	52
41	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
42	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
43	Active High Power Conversion Efficiency Rectifier With Built-In Dual-Mode Back Telemetry in Standard CMOS Technology. IEEE Transactions on Biomedical Circuits and Systems, 2008, 2, 184-192.	2.7	50
44	EnerCage: A Smart Experimental Arena With Scalable Architecture for Behavioral Experiments. IEEE Transactions on Biomedical Engineering, 2014, 61, 139-148.	2.5	50
45	Position and Orientation Insensitive Wireless Power Transmission for EnerCage-Homecage System. IEEE Transactions on Biomedical Engineering, 2017, 64, 2439-2449.	2.5	50
46	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
47	Introduction and preliminary evaluation of the Tongue Drive System: Wireless tongue-operated assistive technology for people with little or no upper-limb function. Journal of Rehabilitation Research and Development, 2008, 45, 921-930.	1.6	46
48	An Experimental Study of Voltage, Current, and Charge Controlled Stimulation Front-End Circuitry. , 2007, , .		45
49	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
50	Wideband Near-Field Data Transmission Using Pulse Harmonic Modulation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 186-195.	3.5	43
51	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
52	PANACEA: An Internet of Bio-NanoThings Application for Early Detection and Mitigation of Infectious Diseases. IEEE Access, 2020, 8, 140512-140523.	2.6	40
53	Energy-efficient switching scheme in SAR ADC for biomedical electronics. Electronics Letters, 2015, 51, 676-678.	0.5	39
54	A Smart Wirelessly Powered Homecage for Long-Term High-Throughput Behavioral Experiments. IEEE Sensors Journal, 2015, 15, 4905-4916.	2.4	39

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55	Wireless opto-electro neural interface for experiments with small freely behaving animals. Journal of Neural Engineering, 2018, 15, 046032.	1.8	39
56	Enhanced Wireless Power Transmission Using Strong Paramagnetic Response. IEEE Transactions on Magnetics, 2014, 50, 96-103.	1.2	38
57	An Inductively-Powered Wireless Neural Recording System With a Charge Sampling Analog Front-End. IEEE Sensors Journal, 2016, 16, 475-484.	2.4	38
58	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
59	Chip-Scale Coils for Millimeter-Sized Bio-Implants. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 1088-1099.	2.7	38
60	Quantitative and Comparative Assessment of Learning in a Tongue-Operated Computer Input Device. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 747-757.	3.6	37
61	Towards a Smart Experimental Arena for Long-Term Electrophysiology Experiments. IEEE Transactions on Biomedical Circuits and Systems, 2012, 6, 414-423.	2.7	37
62	A Multicycle Q-Modulation for Dynamic Optimization of Inductive Links. IEEE Transactions on Industrial Electronics, 2016, 63, 5091-5100.	5.2	37
63	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
64	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
65	An Overview of Data Telemetry in Inductively Powered Implantable Biomedical Devices. IEEE Communications Magazine, 2019, 57, 74-80.	4.9	36
66	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
67	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
68	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
69	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
70	Tongue drive: a wireless tongue-operated means for people with severe disabilities to communicate their intentions. , 2012, 50, 128-135.		32
71	Real-time swallowing detection based on tracheal acoustics. , 2014, , .		32
72	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

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73	Fabrication and Microassembly of a mm-Sized Floating Probe for a Distributed Wireless Neural Interface. <i>Micromachines</i> , 2016, 7, 154.	1.4	31
74	A mm-sized free-floating wirelessly powered implantable optical stimulating system-on-a-chip. , 2018, , .		31
75	Fully-Integrated CMOS Power Regulator for Telemetry-Powered Implantable Biomedical Microsystems. , 2006, , .		30
76	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, 354-363.	2.7	30
77	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.	0.9	30
78	Tongue-Controlled Computer Game: A New Approach for Rehabilitation of Tongue Motor Function. <i>Archives of Physical Medicine and Rehabilitation</i> , 2014, 95, 524-530.	0.5	30
79	Quantitative and Comparative Assessment of Learning in a Tongue-Operated Computer Input Device—Part II: Navigation Tasks. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012, 16, 633-643.	3.6	29
80	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.	2.5	29
81	A Wirelessly-Powered Homecare With Segmented Copper Foils and Closed-Loop Power Control. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2016, 10, 979-989.	2.7	29
82	A Deep Neural Network-Based Permanent Magnet Localization for Tongue Tracking. <i>IEEE Sensors Journal</i> , 2019, 19, 9324-9331.	2.4	29
83	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.	0.9	27
84	Towards a 1.1 mm ² free-floating wireless implantable neural recording SoC. , 2018, , .		27
85	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.	2.7	26
86	Qualitative assessment of Tongue Drive System by people with high-level spinal cord injury. <i>Journal of Rehabilitation Research and Development</i> , 2014, 51, 451-466.	1.6	25
87	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, 1078-1085.	1.7	25
88	Multimodal Speech Capture System for Speech Rehabilitation and Learning. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 2639-2649.	2.5	25
89	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.	2.9	25
90	An automated behavior analysis system for freely moving rodents using depth image. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 1807-1821.	1.6	25

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91	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
92	An Arch-Shaped Intraoral Tongue Drive System with Built-in Tongue-Computer Interfacing SoC. Sensors, 2014, 14, 21565-21587.	2.1	24
93	A wireless slanted optrode array with integrated micro leds for optogenetics. , 2014, , .		24
94	Toward Silent-Speech Control of Consumer Wearables. Computer, 2015, 48, 54-62.	1.2	24
95	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
96	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
97	Towards a Switched-Capacitor based Stimulator for efficient deep-brain stimulation. , 2010, 2010, 2927-30.		23
98	Force and complexity of tongue task training influences behavioral measures of motor learning. European Journal of Oral Sciences, 2012, 120, 46-53.	0.7	23
99	12.7 A power-management ASIC with Q-modulation capability for efficient inductive power transmission. , 2015, , .		23
100	A Vision-Based Respiration Monitoring System for Passive Airway Resistance Estimation. IEEE Transactions on Biomedical Engineering, 2016, 63, 1904-1913.	2.5	23
101	Power Management in Wireless Power-Sipping Devices: A Survey. IEEE Circuits and Systems Magazine, 2017, 17, 64-82.	2.6	23
102	Tongue Operated Assistive Technologies. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4376-9.	0.5	22
103	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, 5724-7.	0.5	22
104	Wireless control of powered wheelchairs with tongue motion using tongue drive assistive technology. , 2008, 2008, 4199-202.		22
105	Towards a magnetic localization system for 3-D tracking of tongue movements in speech-language therapy. , 2009, 2009, 563-6.		21
106	Joint Magnetic Calibration and Localization Based on Expectation Maximization for Tongue Tracking. IEEE Transactions on Biomedical Engineering, 2018, 65, 52-63.	2.5	21
107	Wireless Communication of Intraoral Devices and Its Optimal Frequency Selection. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 3205-3215.	2.9	20
108	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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109	Time to address the problems at the neural interface. Journal of Neural Engineering, 2014, 11, 020201.	1.8	19
110	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
111	A passive quantitative measurement of airway resistance using depth data. , 2014, 2014, 5743-7.		18
112	A Magnetic Wireless Tongue-Computer Interface. , 2007, , .		17
113	Incorporating Back Telemetry in a Full-Wave CMOS Rectifier for RFID and Biomedical Applications. , 2007, , .		17
114	Motivational conditions influence tongue motor performance. European Journal of Oral Sciences, 2013, 121, 111-116.	0.7	17
115	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
116	The Helping Hand: An Assistive Manipulation Framework Using Augmented Reality and Tongue-Drive Interfaces. , 2018, 2018, 2158-2161.		17
117	Design and Optimization of Printed Spiral Coils for Efficient Inductive Power Transmission. , 2007, , .		16
118	Fully integrated power-efficient AC-to-DC converter design in inductively-powered biomedical applications. , 2011, , .		16
119	Command detection and classification in tongue drive assistive technology. , 2011, 2011, 5465-8.		16
120	A multimodal human computer interface combining head movement, speech and tongue motion for people with severe disabilities. , 2015, , .		16
121	Towards a kinect-based behavior recognition and analysis system for small animals. , 2015, , .		16
122	Optimization of Tongue Gesture Processing Algorithm for Standalone Multimodal Tongue Drive System. IEEE Sensors Journal, 2019, 19, 2704-2712.	2.4	16
123	Optimal design of a 3-coil inductive link for millimeter-sized biomedical implants. , 2016, , .		15
124	Highly Integrated Guidewire Ultrasound Imaging System-on-a-Chip. IEEE Journal of Solid-State Circuits, 2020, 55, 1310-1323.	3.5	15
125	A clockless ultra low-noise low-power wireless implantable neural recording system. , 2008, , .		14
126	Wireless control of smartphones with tongue motion using tongue drive assistive technology. , 2010, 2010, 5250-3.		14

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127	Detecting food intake acoustic events in noisy recordings using template matching. , 2016, , .		14
128	A dual-mode passive rectifier for wide-range input power flow. , 2017, , .		14
129	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
130	26.8 A Trimodal Wireless Implantable Neural Interface System-on-Chip. , 2020, , .		14
131	Evaluation of a closed loop inductive power transmission system on an awake behaving animal subject. , 2011, 2011, 7658-61.		13
132	Multichannel Wireless Neural Recording AFE Architectures: Analysis, Modeling, and Tradeoffs. IEEE Design and Test, 2016, 33, 24-36.	1.1	13
133	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
134	Optimal Design of Passive Resonating Wireless Sensors for Wearable and Implantable Devices. IEEE Sensors Journal, 2019, 19, 7460-7470.	2.4	13
135	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
136	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
137	Tracheal activity recognition based on acoustic signals. , 2014, 2014, 1436-9.		12
138	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
139	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
140	An Independent Tongue-Operated Assistive System for Both Access and Mobility. IEEE Sensors Journal, 2018, 18, 9401-9409.	2.4	12
141	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
142	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
143	Inductively coupled, mm-sized, single channel optical neuro-stimulator with intensity enhancer. Microsystems and Nanoengineering, 2019, 5, 23.	3.4	12
144	A Power-Efficient Bridge Readout Circuit for Implantable, Wearable, and IoT Applications. IEEE Sensors Journal, 2020, 20, 9955-9962.	2.4	12

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145	Using Fitts's law for evaluating Tongue Drive System as a pointing device for computer access. , 2010, 2010, 4403-6.		11
146	Tongue-controlled robotic rehabilitation: A feasibility study in people with stroke. Journal of Rehabilitation Research and Development, 2016, 53, 989-1006.	1.6	11
147	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
148	A High-Voltage Output Driver for Implantable Biomedical Stimulators and I/O Applications. , 2006, , .		10
149	Millimeter-scale integrated and wirewound coils for powering implantable neural microsystems. , 2017, , .		10
150	A Bio-Impedance Measurement IC for Neural Interface Applications. , 2018, , .		10
151	An Impulse Radio PWM-Based Wireless Data Acquisition Sensor Interface. IEEE Sensors Journal, 2019, 19, 603-614.	2.4	10
152	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
153	A multichannel monolithic wireless microstimulator. , 2004, 2004, 4197-200.		9
154	A 15-Channel Wireless Neural Recording System Based on Time Division Multiplexing of Pulse Width Modulated Signals. , 2006, , .		9
155	Using Pulse Width Modulation for Wireless Transmission of Neural Signals in a Multichannel Neural Recording System. , 2007, , .		9
156	Optimization of a multiband wireless link for neuroprosthetic implantable devices. , 2008, , .		9
157	A wideband PWM-FSK receiver for wireless implantable neural recording applications. , 2008, , .		9
158	A comprehensive method for magnetic sensor calibration: A precise system for 3-D tracking of the tongue movements. , 2012, 2012, 1153-1156.		9
159	Design, modeling and characterization of a 35MHz 1-D CMUT phased array. , 2013, , .		9
160	Design of frequency-division multiplexing front-end receiver electronics for CMUT-on-CMOS based intracardiac echocardiography. , 2014, , .		9
161	Toward a distributed free-floating wireless implantable neural recording system. , 2016, 2016, 4495-4498.		9
162	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

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163	A Wireless Pharmaceutical Compliance Monitoring System Based on Magneto-Inductive Sensors. IEEE Sensors Journal, 2007, 7, 1711-1719.	2.4	8
164	A high efficiency full-wave rectifier in standard CMOS Technology. Midwest Symposium on Circuits and Systems, 2007, , .	1.0	8
165	A wireless implantable switched-capacitor based optogenetic stimulating system. , 2014, 2014, 878-81.		8
166	Time-division multiplexing for cable reduction in ultrasound imaging catheters. , 2015, , .		8
167	Advanced wireless power and data transmission techniques for implantable medical devices. , 2015, , .		8
168	A closed-loop wireless homepage for optogenetic stimulation experiments. , 2015, , .		8
169	Single-Chip Reduced-Wire CMUT-on-CMOS System for Intracardiac Echocardiography. , 2018, , .		8
170	Triple-Band Transmitter with a Shared Dual-Band Antenna and Adaptive Matching for an Intraoral Tongue Drive System. , 2018, , .		8
171	A miniaturized, wirelessly-powered, reflector-coupled single channel opto neurostimulator. , 2018, , .		8
172	Single-chip reduced-wire active catheter system with programmable transmit beamforming and receive time-division multiplexing for intracardiac echocardiography. , 2018, , .		8
173	A wireless magnetoresistive sensing system for an intra-oral tongue-computer interface. , 2012, , .		7
174	A dual slope charge sampling analog front-end for a wireless neural recording system. , 2014, 2014, 3134-7.		7
175	Older Adultsâ€™ Perceptions of a Neckwear Health Technology. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 1815-1819.	0.2	7
176	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
177	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
178	Preliminary Test of a Wireless Magnetic Tongue Tracking System for Silent Speech Interface. , 2018, , .		7
179	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
180	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

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181	A closed loop wireless power transmission system using a commercial RFID transceiver for biomedical applications. , 2009, 2009, 3841-4.		6
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