

Design, Fabrication and Experimental Validation of a Non-Invasive Measuring Electroencephalography Signals without Skin

Sensors

11, 5819-5834

DOI: [10.3390/s110605819](https://doi.org/10.3390/s110605819)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Engineering Technic in Pre-Editing Motion Pictures<xref ref-type="fn" rid="fn110.5594_J05390">*</xref>. Journal of the Society of Motion Picture Engineers, 1935, 25, 171-174.	0.2	0
3	Wavelet-based preconditioner for three-dimensional electromagnetic integral equations. Electronics Letters, 2000, 36, 2063.	0.5	4
4	A case study of tele-operation system with time-delay. , 0, , .		2
5	Coupled Transmission Lines and Directional Couplers. , 2009, , .		0
6	Cognition in action: imaging brain/body dynamics in mobile humans. Reviews in the Neurosciences, 2011, 22, 593-608.	1.4	217
7	A Non-Adhesive Solid-Gel Electrode for a Non-Invasive Brainâ€“Machine Interface. Frontiers in Neurology, 2012, 3, 114.	1.1	39
8	Biosensor Technologies for Augmented Brainâ€“Computer Interfaces in the Next Decades. Proceedings of the IEEE, 2012, 100, 1553-1566.	16.4	121
9	Cell-phone based Drowsiness Monitoring and Management system. , 2012, , .		8
10	Design of the multi-channel electroencephalography-based brain-computer interface with novel dry sensors. , 2012, 2012, 1793-7.		3
11	A capacitive, biocompatible and adhesive electrode for long-term and cap-free monitoring of EEG signals. Journal of Neural Engineering, 2013, 10, 036006.	1.8	36
12	Real-Time Vigilance Estimation Using Mobile Wireless Mindo EEG Device with Spring-Loaded Sensors. Lecture Notes in Computer Science, 2013, , 450-458.	1.0	1
13	Loss of balance during balance beam walking elicits a multifocal theta band electrocortical response. Journal of Neurophysiology, 2013, 110, 2050-2060.	0.9	186
14	Real-World Neuroimaging Technologies. IEEE Access, 2013, 1, 131-149.	2.6	82
15	Foundations of Augmented Cognition. Lecture Notes in Computer Science, 2013, , .	1.0	6
16	Simultaneous Scalp Electroencephalography (EEG), Electromyography (EMG), and Whole-body Segmental Inertial Recording for Multi-modal Neural Decoding. Journal of Visualized Experiments, 2013, , .	0.2	19
17	Review of Wireless Brain-Computer Interface Systems. , 0, , .		42
18	A Review on the Computational Methods for Emotional State Estimation from the Human EEG. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-13.	0.7	204
19	Developing an EEG-based on-line closed-loop lapse detection and mitigation system. Frontiers in Neuroscience, 2014, 8, 321.	1.4	31

#	ARTICLE	IF	CITATIONS
20	Soft Conductive Polymer Dry Electrodes for High-Quality and Comfortable ECG/EEG Measurements. <i>Advances in Science and Technology</i> , 2014, 96, 102-107.	0.2	5
21	Developing Barbed Microtip-Based Electrode Arrays for Biopotential Measurement. <i>Sensors</i> , 2014, 14, 12370-12386.	2.1	52
22	Dry EEG Electrodes. <i>Sensors</i> , 2014, 14, 12847-12870.	2.1	298
23	Reducing the noise level of EEG signal acquisition through reconfiguration of dry contact electrodes. , 2014, , .		6
24	Design, Fabrication, and Experimental Validation of Novel Flexible Silicon-Based Dry Sensors for Electroencephalography Signal Measurements. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2014, 2, 1-7.	2.2	17
25	Ionic Liquid Gel-Assisted Electrodes for Long-Term Cutaneous Recordings. <i>Advanced Healthcare Materials</i> , 2014, 3, 1377-1380.	3.9	83
26	Workshops of the Fifth International Brain-Computer Interface Meeting: Defining the Future. <i>Brain-Computer Interfaces</i> , 2014, 1, 27-49.	0.9	35
27	Characterizing contact impedance, signal quality and robustness as a function of the cardinality and arrangement of fingers on dry contact EEG electrodes. , 2014, 2014, 3755-8.		3
28	Capacitive Epidermal Electronics for Electrically Safe, Long-Term Electrophysiological Measurements. <i>Advanced Healthcare Materials</i> , 2014, 3, 642-648.	3.9	231
29	Soft, Comfortable Polymer Dry Electrodes for High Quality ECG and EEG Recording. <i>Sensors</i> , 2014, 14, 23758-23780.	2.1	177
30	Development of PDMS-based flexible dry type SEMG electrodes by micromachining technologies. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 1395-1401.	1.1	10
31	A Novel 16-Channel Wireless System for Electroencephalography Measurements With Dry Spring-Loaded Sensors. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014, 63, 1545-1555.	2.4	56
32	Novel wireless electroencephalography system with a minimal preparation time for use in emergencies and prehospital care. <i>BioMedical Engineering OnLine</i> , 2014, 13, 60.	1.3	22
33	Wireless and Wearable EEG System for Evaluating Driver Vigilance. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2014, 8, 165-176.	2.7	173
34	Brain computer interface: A review. , 2015, , .		27
35	Extracting patterns of single-trial EEG using an adaptive learning algorithm. , 2015, 2015, 6642-5.		3
36	Scalable Microfabrication Procedures for Adhesive-Integrated Flexible and Stretchable Electronic Sensors. <i>Sensors</i> , 2015, 15, 23459-23476.	2.1	38
37	Classification of single-trial auditory events using dry-wireless EEG during real and motion simulated flight. <i>Frontiers in Systems Neuroscience</i> , 2015, 9, 11.	1.2	42

#	ARTICLE	IF	CITATIONS
38	Design of active dry electrodes and its evaluation for EEG acquisition. , 2015, , .		1
39	Comparison of foam-based and spring-loaded dry EEG electrodes with wet electrodes in resting and moving conditions. , 2015, 2015, 7131-4.		8
40	Soft, curved electrode systems capable of integration on the auricle as a persistent brain-computer interface. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3920-3925.	3.3	319
41	Cholinium-based ion gels as solid electrolytes for long-term cutaneous electrophysiology. Journal of Materials Chemistry C, 2015, 3, 8942-8948.	2.7	52
42	Design Principles and Dynamic Front End Reconfiguration for Low Noise EEG Acquisition With Finger Based Dry Electrodes. IEEE Transactions on Biomedical Circuits and Systems, 2015, 9, 631-640.	2.7	27
43	Wearable, Wireless EEG Solutions in Daily Life Applications: What are we Missing?. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 6-21.	3.9	221
44	Impedance analysis of ZnO nanowire coated dry EEG electrodes. Journal of Biomedical Engineering and Informatics, 2016, 3, 44.	0.2	5
45	Joint Maximum Likelihood Time Delay Estimation of Unknown Event-Related Potential Signals for EEG Sensor Signal Quality Enhancement. Sensors, 2016, 16, 891.	2.1	5
46	New Flexible Silicone-Based EEG Dry Sensor Material Compositions Exhibiting Improvements in Lifespan, Conductivity, and Reliability. Sensors, 2016, 16, 1826.	2.1	20
47	Polymer-based candle-shaped microneedle electrodes for electroencephalography on hairy skin. Japanese Journal of Applied Physics, 2016, 55, 06GP16.	0.8	13
48	A review of electrodes for the electrical brain signal recording. Biomedical Engineering Letters, 2016, 6, 104-112.	2.1	85
49	Design, fabrication and skin-electrode contact analysis of polymer microneedle-based ECG electrodes. Journal of Micromechanics and Microengineering, 2016, 26, 084005.	1.5	33
50	Novel passive ceramic based semi-dry electrodes for recording electroencephalography signals from the hairy scalp. Sensors and Actuators B: Chemical, 2016, 237, 167-178.	4.0	69
51	Electrical impedance spectroscopy (EIS)-based evaluation of biological tissue phantoms to study multifrequency electrical impedance tomography (Mf-EIT) systems. Journal of Visualization, 2016, 19, 691-713.	1.1	48
52	Capacitive Biopotential Measurement for Electrophysiological Signal Acquisition: A Review. IEEE Sensors Journal, 2016, 16, 2832-2853.	2.4	128
53	Nanomaterial-Enabled Dry Electrodes for Electrophysiological Sensing: A Review. Jom, 2016, 68, 1145-1155.	0.9	124
54	An Inflatable and Wearable Wireless System for Making 32-Channel Electroencephalogram Measurements. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 806-813.	2.7	28
55	A microneedle electrode array on flexible substrate for long-term EEG monitoring. Sensors and Actuators B: Chemical, 2017, 244, 750-758.	4.0	92

#	ARTICLE	IF	CITATIONS
56	Systematic design and implementation of a high-robust adaptive calibration technique for ETI-induced analog front end circuits in EEG systems. <i>Analog Integrated Circuits and Signal Processing</i> , 2017, 91, 63-72.	0.9	1
57	A Ferroelectric Ceramic/Polymer Composite-Based Capacitive Electrode Array for In Vivo Recordings. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700305.	3.9	10
58	Fabrication and interfacial characteristics of surface modified Ag nanoparticle based conductive composites. <i>RSC Advances</i> , 2017, 7, 29702-29712.	1.7	20
59	EEG-Based Brain-Computer Interfaces: A Novel Neurotechnology and Computational Intelligence Method. <i>IEEE Systems, Man, and Cybernetics Magazine</i> , 2017, 3, 16-26.	1.2	31
60	Trends in EEG-BCI for daily-life: Requirements for artifact removal. <i>Biomedical Signal Processing and Control</i> , 2017, 31, 407-418.	3.5	216
61	Towards gel-free electrodes: A systematic study of electrode-skin impedance. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 1244-1255.	4.0	114
62	Estimation of SSVEP-based EEG complexity using inherent fuzzy entropy. , 2017, , .		8
63	The design of silver active dry with pin electrodes for EEG measurements. , 2017, , .		1
64	Development and Experimental Validation of a Dry Non-Invasive Multi-Channel Mouse Scalp EEG Sensor through Visual Evoked Potential Recordings. <i>Sensors</i> , 2017, 17, 326.	2.1	11
65	A Hybrid FPGA-Based System for EEG- and EMG-Based Online Movement Prediction. <i>Sensors</i> , 2017, 17, 1552.	2.1	36
66	Deployment of Mobile EEG Technology in an Art Museum Setting: Evaluation of Signal Quality and Usability. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 527.	1.0	55
67	A Multifunctional Brain-Computer Interface Intended for Home Use: An Evaluation with Healthy Participants and Potential End Users with Dry and Gel-Based Electrodes. <i>Frontiers in Neuroscience</i> , 2017, 11, 286.	1.4	38
68	Stretchable human-machine interface based on skin-conformal sEMG electrodes with self-similar geometry. <i>Journal of Semiconductors</i> , 2018, 39, 014001.	2.0	15
69	Assessing a novel micro-seepage electrode with flexible and elastic tips for wearable EEG acquisition. <i>Sensors and Actuators A: Physical</i> , 2018, 270, 262-270.	2.0	30
70	Exploring resting-state EEG complexity before migraine attacks. <i>Cephalalgia</i> , 2018, 38, 1296-1306.	1.8	36
71	Message from the Blockchain-2018 Steering Chairs. , 2018, , .		0
72	A comparison of a broad range of EEG acquisition devices " is there any difference for SSVEP BCIs?. <i>Brain-Computer Interfaces</i> , 2018, 5, 121-131.	0.9	13
73	Biodegradable Polycarbonate longels for Electrophysiology Measurements. <i>Polymers</i> , 2018, 10, 989.	2.0	15

#	ARTICLE	IF	CITATIONS
74	Electrooculography by Wearable Graphene Textiles. IEEE Sensors Journal, 2018, 18, 8971-8978.	2.4	45
75	Towards conductive-gel-free electrodes: Understanding the wet electrode, semi-dry electrode and dry electrode-skin interface impedance using electrochemical impedance spectroscopy fitting. Sensors and Actuators B: Chemical, 2018, 277, 250-260.	4.0	100
76	Development of Large-area Lithium-drifted Silicon Detectors for the GAPS Experiment. , 2018, , .		5
81	Simultaneous arrival on target in an obstacle field using Dubins-Line-of-Sight (DLOS) algorithm. , 2018, , .		0
82	Ambulatory EEG Monitoring. , 2019, , 223-239.		6
83	Dry Electrode-Based Fully Isolated EEG/fNIRS Hybrid Brain-Monitoring System. IEEE Transactions on Biomedical Engineering, 2019, 66, 1055-1068.	2.5	31
84	Flexible Multi-Layer Semi-Dry Electrode for Scalp EEG Measurements at Hairy Sites. Micromachines, 2019, 10, 518.	1.4	34
85	Analysis of a Low-Cost EEG Monitoring System and Dry Electrodes toward Clinical Use in the Neonatal ICU. Sensors, 2019, 19, 2637.	2.1	32
86	Two-Wired Active Spring-Loaded Dry Electrodes for EEG Measurements. Sensors, 2019, 19, 4572.	2.1	9
87	From the Lab to the Field: Potential Applications of Dry EEG Systems to Understand the Brain-Behavior Relationship in Sports. Frontiers in Neuroscience, 2019, 13, 893.	1.4	19
88	A Flexible, Robust, and Gel-Free Electroencephalogram Electrode for Noninvasive Brain-Computer Interfaces. Nano Letters, 2019, 19, 6853-6861.	4.5	131
89	Implantable Multisensory Microelectrode Biosensor for Revealing Neuron and Brain Functions. Springer Proceedings in Physics, 2019, , 763-769.	0.1	1
90	Graphene Smart Textile-Based Wearable Eye Movement Sensor for Electro-Ocular Control and Interaction with Objects. Journal of the Electrochemical Society, 2019, 166, B3184-B3193.	1.3	28
91	A flexible dry electroencephalogram electrode based on graphene materials. Materials Research Express, 2019, 6, 085619.	0.8	11
92	A novel dry-contact electrode for measuring electroencephalography signals. Sensors and Actuators A: Physical, 2019, 294, 73-80.	2.0	21
93	Development of a Smart Helmet for Strategic BCI Applications. Sensors, 2019, 19, 1867.	2.1	27
94	Design of a Wearable 12-Lead Noncontact Electrocardiogram Monitoring System. Sensors, 2019, 19, 1509.	2.1	24
95	Low melting point metal-based flexible 3D biomedical microelectrode array by phase transition method. Materials Science and Engineering C, 2019, 99, 735-739.	3.8	12

#	ARTICLE	IF	CITATIONS
96	ICIT 2019 Panel Sessions [breaker page]. , 2019, , .		0
97	RF and Microwave Techniques. , 2019, , .		0
98	A New Approach to Change Detection Using Heterogeneous Images. , 2019, , .		12
99	Sea Surface Current Velocity Vectors from Passive Remote Sensing Imagery. , 2019, , .		0
100	Defining an Uncertainty Budget in Electrical Power and Energy Reference Standards Calibration. , 2019, , .		2
101	Probabilistic Model of Utility Scale PV Plants. , 2019, , .		3
102	Street Network Generation with Adjustable Complexity Using k-Means Clustering. , 2019, , .		3
103	Network Parameter Generation for One-Shot Object Detection. , 2019, , .		1
104	Surface potential-Based Compact Model for Negative Capacitance FETs Compatible for Logic Circuit: with Time Dependence and Multidomain Interaction. , 2019, , .		5
105	IESC 2019 Author Index. , 2019, , .		0
107	Variable speed control of wind turbines based on the optimal discrete sliding mode control. , 2019, , .		0
108	MAC ID Spoofing-Resistant Radio Fingerprinting. , 2019, , .		9
109	Preliminary Study of Gradient Coils with Variable Gradient Value and Open-Drive Coil in Magnetic Particle Imaging. , 2019, , .		1
110	FACSIMILE: Fast and Accurate Scans From an Image in Less Than a Second. , 2019, , .		33
111	Emotional stimulation during motor exercise: An integration to the holistic rehabilitation framework. , 2019, 2019, 4604-4610.		8
112	Spatiotemporal Trend Analysis of Soil Moisture Retrieved From Three NLDAS-Based Advanced Land Surface Models over the United States: A Comparative Study. , 2019, , .		0
113	DNN Speaker Embeddings Using Autoencoder Pre-Training. , 2019, , .		2
114	DRBSD-5 2019 Organization. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
115	Adaptive Activation Function Generation for Artificial Neural Networks through Fuzzy Inference with Application in Grooming Text Categorisation. , 2019, , .		7
116	Robust Sensor Fault Reconstruction for Modular Multilevel Converter Based on Sliding Mode Observer. , 2019, , .		0
117	Reliability Design against Catastrophic Failure Caused by Rare Event. , 2019, , .		0
118	Radiation Data Acquisition System Using Wireless Communication. , 2019, , .		0
119	Multiscale Geometric Data Analysis via Laplacian Eigenvector Cascading. , 2019, , .		0
120	Single Channel Speech Enhancement Using Temporal Convolutional Recurrent Neural Networks. , 2019, , .		6
121	Security Mandates are Pervasive: An Inter-School Study on Analyzing User Authentication Behavior. , 2019, , .		5
122	Characterization and Classification of Hall Sensor Faults using S-Transform Analysis on BLDC Motor Drive. , 2019, , .		3
123	Circular Microphone Array Based Stethoscope for Radial Filtering of Body Sounds. , 2019, , .		1
124	Galaxy clusters and beyond with the Upgraded Giant Metrewave Radio Telescope. , 2019, , .		0
125	Research on Shoring Technology of Dynamic Pressure Roadway Based on Numerical Simulation Technology. , 2019, , .		0
126	Sounding Industry: Challenges and Datasets for Industrial Sound Analysis. , 2019, , .		23
127	Q-value Learning Automata (QvLA)-RACH Access Scheme for Cellular M2M Communications. , 2019, , .		0
128	An Investigation of Computer-based Brain Training on the Cognitive and EEG Performance of Employees. , 2019, 2019, 518-521.		3
129	Three-dimensional Pavement Disease Detection based on Three components Decomposition and TUFF Algorithm. , 2019, , .		2
130	Voltage and frequency fluctuation risk and simulation evaluation of UHVDC sending network with high renewable energy penetration. , 2019, , .		0
131	Modeling a Non-Contact Sustainable Suspension of a Free Superconducting Rotor on Magnetic Bearings. , 2019, , .		0
133	Robust Adaptive Controller Design for DC-DC SEPIC Converter In Photo Voltaic Application. , 2019, , .		6

#	ARTICLE	IF	CITATIONS
134	The Effect of Speed and Acceleration on Emission Ratio Based on Actual Road Driving: A Case of Xiaodian District in Taiyuan. , 2019, , .		0
135	Trajectory tracking of a quadrotor using TID controller. , 2019, , .		2
136	Image Local Features Description Through Polynomial Approximation. IEEE Access, 2019, 7, 183692-183705.	2.6	7
137	Full State Feedback Control of Buck-type PWM Rectifier. , 2019, , .		1
138	Efficient Zero-Order NMPC with Feasibility and Stability Guarantees. , 2019, , .		9
139	Noise Immunity of Chaotic Synchronization in Master-Slave System. , 2019, , .		1
140	Velocity Coordination of Multi-vehicle Systems via Distributed Neighbor Selection. , 2019, , .		0
141	Green synthesis and characterisation of ZnMn ₂ O ₄ nanoparticles for photocatalytic degradation of Congo red dye and kinetic study. Micro and Nano Letters, 2019, 14, 986-991.	0.6	66
142	Time Response of a De-energizing Aerospace Synchronous Generator. , 2019, , .		2
143	An Ultra-Wideband Wide-Angle Scan Array Antenna For Synthetic Aperture Radar. , 2019, , .		0
144	Clutter Cancellation in Passive Radar as a Dual Basis Projection. , 2019, , .		3
145	Optimizing Driver Assistance Systems for Real-Time performance on Resource Constrained GPUs. , 2019, , .		1
146	Dangers and Prevalence of Unprotected Web Fonts. , 2019, , .		3
147	Silver Nanoparticles-based Hydrogel for Potential Antibacterial Applications. , 2019, , .		1
148	Design and Control of a Single-Phase Series Resonance Inverter using an Arduino Microcontroller. , 2019, , .		2
149	Improved performance of Backstepping Control of an open-end stator winding Five-phase Induction Motor with the fundamental and harmonic currents. , 2019, , .		0
150	Nonparametric Functional Approximation with Delaunay Triangulation Learner. , 2019, , .		0
151	Iterative Test Generation for Gate-Exhaustive Faults to Cover the Sites of Undetectable Target Faults. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
152	Using LoRa Technology for IoT Monitoring Systems. , 2019, , .		12
153	Transfer Learning for the Choquet Integral. , 2019, , .		2
154	A Transformation for Polar Code BP Decoding. , 2019, , .		0
155	Constant Size CP-ABE with Scalable Revocation for Resource-Constrained IoT Devices. , 2019, , .		5
156	Review of SiC based Power Semiconductor Devices and their Applications. , 2019, , .		7
157	Optical In-Situ Verification of 3D-Printed Electronic Circuits. , 2019, , .		7
158	IoT Based Smart Home Using Multiple Language Voice Commands. , 2019, , .		6
159	Technical Implementation of the High-Speed Response Servo Drive at the Programmable Logic Device. , 2019, , .		2
160	A Greedy Approach for TDMA Based on Matrix Operation. , 2019, , .		0
161	Design Semi-Automatic Control System using PLC for Stalling Materials in the Forming Machine. , 2019, , .		0
162	ELECO 2019 Call for Papers. , 2019, , .		0
163	Fast response hydrogel-based plasmonic sensor substrate for the detection of ethanol. , 2019, , .		0
164	A Survey of Procedural Dungeon Generation. , 2019, , .		6
165	Experimental Validation of Hydraulic Interlocking Drive System for Biped Humanoid Robot. , 2019, , .		2
166	Design and Verification of a Dry Sensor-Based Multi-Channel Digital Active Circuit for Human Brain Electroencephalography Signal Acquisition Systems. Micromachines, 2019, 10, 720.	1.4	5
167	Electrical Characterization of Graphene-based e-Tattoos for Bio-Impedance-based Physiological Sensing. , 2019, , .		17
168	Electrophysiology Meets Printed Electronics: The Beginning of a Beautiful Friendship. Frontiers in Neuroscience, 2018, 12, 992.	1.4	15
169	Heart Monitor Using Flexible Capacitive ECG Electrodes. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4314-4323.	2.4	42

#	ARTICLE	IF	CITATIONS
170	Development of Dry EEG Electrodes and Dry EEG Cap for Neuromonitoring. , 2020, , .		4
171	Low-Cost Assessment of User eXperience Through EEG Signals. IEEE Access, 2020, 8, 158475-158487.	2.6	9
172	3D Printable Dry EEG Electrodes with Coiled-Spring Prongs. Sensors, 2020, 20, 4733.	2.1	16
173	Adaptive Residual Convolutional Neural Network for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 2520-2531.	2.3	24
174	Multimaterial and multifunctional neural interfaces: from surface-type and implantable electrodes to fiber-based devices. Journal of Materials Chemistry B, 2020, 8, 6624-6666.	2.9	41
175	A Compact Single-Layer Wideband Microstrip Antenna With Filtering Performance. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 801-805.	2.4	84
177	Current Error Space Vector Based Hysteresis Controller for VSI Fed PMSM Drive. IEEE Transactions on Power Electronics, 2020, 35, 10690-10699.	5.4	8
178	Fuzzy Gain Scheduled-Sliding Mode Rotational Speed Control of an Oscillating Water Column. IEEE Access, 2020, 8, 45853-45873.	2.6	14
179	A Hybrid Approach for Optimal Clustering in Wireless Sensor Networks using Cuckoo Search and Simulated Annealing Algorithms. , 2020, , .		5
180	Durability Analysis of Metal Oxide Varistor under Direct Current Switching Surges. , 2020, , .		4
181	Dry Electrodes for Human Bioelectrical Signal Monitoring. Sensors, 2020, 20, 3651.	2.1	105
182	Augmented Wire-Embedded Silicon-Based Dry-Contact Sensors for Electroencephalography Signal Measurements. IEEE Sensors Journal, 2020, 20, 3831-3837.	2.4	9
183	A Linear Array of Skewed Dipoles With Asymmetric Radiation Pattern for Angular Filtering. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 408-412.	2.4	2
184	A Bus Arrival Time Prediction Method Based on Position Calibration and LSTM. IEEE Access, 2020, 8, 42372-42383.	2.6	18
185	A New High Precision Linear Displacement Sensor Based on Single Light Field Orthogonal Modulation. IEEE Sensors Journal, 2020, 20, 5834-5844.	2.4	2
186	Maximally Orthogonalized Higher Order Basis Functions in Large-Domain Finite Element Modeling in Electromagnetics. IEEE Transactions on Antennas and Propagation, 2020, 68, 6455-6460.	3.1	2
187	A Normally-off Copackaged SiC-JFET/GaN-HEMT Cascode Device for High-Voltage and High-Frequency Applications. IEEE Transactions on Power Electronics, 2020, 35, 9669-9679.	5.4	24
188	Digital Terrain, Surface, and Canopy Height Models From InSAR Backscatter-Height Histograms. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3754-3777.	2.7	12

#	ARTICLE	IF	CITATIONS
189	Adaptive Extended State Observer-Based Synergetic Control for a Long-Stroke Compliant Microstage With Stress Stiffening. IEEE/ASME Transactions on Mechatronics, 2020, 25, 259-270.	3.7	24
190	A High-Accuracy Synchronization Phase-Compensation Method Based on Kalman Filter for Bistatic Synthetic Aperture Radar. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1722-1726.	1.4	20
191	Improved DD-based Equivalence Checking of Quantum Circuits. , 2020, , .		19
192	Partial Multi-Label Learning via Credible Label Elicitation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3587-3599.	9.7	38
193	Static Stability of Robotic Fabric Strip Folding. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2493-2500.	3.7	4
194	A Review of the Latest IEEE 1584 and How This Affects You. IEEE Power and Energy Magazine, 2020, 18, 117-120.	1.6	0
195	Packet Scheduling in Multipath TCP: Fundamentals, Lessons, and Opportunities. IEEE Systems Journal, 2021, 15, 1445-1457.	2.9	23
196	The ferroelectric ceramic/elastomer composite as the dielectric coating of soft capacitive neural interface: The competitive effects of ceramic particles. Composites Part B: Engineering, 2021, 204, 108475.	5.9	5
197	Altered electroencephalographic networks in developmental dyslexia after remedial training: a prospective case-control study. Neural Regeneration Research, 2021, 16, 734.	1.6	6
198	Small-World Propensity in Developmental Dyslexia After Visual Training Intervention. Lecture Notes in Networks and Systems, 2021, , 233-258.	0.5	3
199	The Impact of Vigorous Cycling Exercise on Visual Attention: A Study With the BR8 Wireless Dry EEG System. Frontiers in Neuroscience, 2021, 15, 621365.	1.4	6
200	3D Printable and Biocompatible Ionels for Body Sensor Applications. Advanced Electronic Materials, 2021, 7, 2100178.	2.6	30
201	Comparative Study Analysis of Practical EEG sensors in Medical Diagnoses. Global Transitions Proceedings, 2021, 2, 467-467.	4.2	8
202	Human Bodyâ€“Electrode Interfaces for Wide-Frequency Sensing and Communication: A Review. Nanomaterials, 2021, 11, 2152.	1.9	12
203	All-weather, natural silent speech recognition via machine-learning-assisted tattoo-like electronics. Npj Flexible Electronics, 2021, 5, .	5.1	36
204	Materials for Dry Electrodes for the Electroencephalography: Advances, Challenges, Perspectives. Advanced Materials Technologies, 2022, 7, 2100612.	3.0	20
205	Stretchable sEMG Electrodes Conformally Laminated on Skin for Continuous Electrophysiological Monitoring. Lecture Notes in Computer Science, 2017, , 77-86.	1.0	5
206	Review of semi-dry electrodes for EEG recording. Journal of Neural Engineering, 2020, 17, 051004.	1.8	95

#	ARTICLE	IF	CITATIONS
207	Carbon nanofiber-filled conductive silicone elastomers as soft, dry bioelectronic interfaces. PLoS ONE, 2018, 13, e0189415.	1.1	11
208	A Review of Interventions with Assistive Technologies for Patients with Cognitive Impairment. Advances in Psychology, Mental Health, and Behavioral Studies, 2015, , 118-129.	0.1	3
209	Evaluation of a low-cost and low-noise active dry electrode for long-term biopotential recording. Journal of Medical Signals and Sensors, 2016, 6, 197.	0.5	6
210	Comparison of mobile and clinical EEG sensors through resting state simultaneous data collection. PeerJ, 2020, 8, e8969.	0.9	8
211	Fabrication and characterization of a microneedle array electrode with flexible backing for biosignal monitoring. Biomedical Microdevices, 2021, 23, 53.	1.4	5
212	A Study on Performance Evaluation for Electrocardiography Signal Measurement Electrode based on Conductive Fabric. Journal of the Institute of Electronics and Information Engineers, 2013, 50, 210-220.	0.0	1
213	Characterization of Single Lead Continuous ECG Recording with Various Dry Electrodes. , 2019, , .		9
214	Electrocardiogram: Acquisition and Analysis for Biological Investigations and Health Monitoring. , 2020, , 117-142.		2
215	Review of Applications for Wireless Brain-Computer Interface Systems. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 128-152.	0.2	0
216	Evaluation of a Low-cost and Low-noise Active Dry Electrode for Long-term Biopotential Recording. Journal of Medical Signals and Sensors, 2016, 6, 197-202.	0.5	1
217	A Pre-Gelled EEG Electrode and Its Application in SSVEP-Based BCI. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 843-850.	2.7	14
218	Breathable, Self-Adhesive Dry Electrodes for Stable Electrophysiological Signal Monitoring During Exercise. ACS Applied Materials & Interfaces, 2022, 14, 12812-12823.	4.0	16
219	State of the Art of Non-Invasive Electrode Materials for Brain-Computer Interface. Micromachines, 2021, 12, 1521.	1.4	12
220	Insight into the Contact Impedance between the Electrode and the Skin Surface for Electrophysical Recordings. ACS Omega, 2022, 7, 13906-13912.	1.6	12
222	How to successfully classify EEG in motor imagery BCI: a metrological analysis of the state of the art. Journal of Neural Engineering, 2022, 19, 031002.	1.8	31
223	High Conductivity, Low Impedance, and High Biological Adaptability Ionic Conductive Hydrogels for Ear-Eeg Acquisition. SSRN Electronic Journal, 0, , .	0.4	0
224	Recent Advances in Stretchable and Wearable Capacitive Electrophysiological Sensors for Long-Term Health Monitoring. Biosensors, 2022, 12, 630.	2.3	26
225	EEG sensor system development consisting of solid polyvinyl alcohol-glycerol-NaCl contact gel and 3D-printed, silver-coated polylactic acid electrode for potential brain-computer interface use. Materials Today Chemistry, 2022, 26, 101085.	1.7	6

#	ARTICLE	IF	CITATIONS
226	A Review of Recent Advances in Vital Signals Monitoring of Sports and Health via Flexible Wearable Sensors. <i>Sensors</i> , 2022, 22, 7784.	2.1	23
227	Developing Disposable EEG Cap for Infant Recordings at the Neonatal Intensive Care Unit. <i>Sensors</i> , 2022, 22, 7869.	2.1	2
228	Real-time noise cancellation with deep learning. <i>PLoS ONE</i> , 2022, 17, e0277974.	1.1	3
229	The Feature, Performance, and Prospect of Advanced Electrodes for Electroencephalogram. <i>Biosensors</i> , 2023, 13, 101.	2.3	14
230	Smart ECG Monitoring System Based on IoT. <i>Cognitive Science and Technology</i> , 2023, , 877-896.	0.2	0
231	Noninvasive Sensors for Brain-Machine Interfaces Based on Micropatterned Epitaxial Graphene. <i>ACS Applied Nano Materials</i> , 2023, 6, 5440-5447.	2.4	6
232	Recent Progress of Biomaterials-Based Epidermal Electronics for Healthcare Monitoring and Human-Machine Interaction. <i>Biosensors</i> , 2023, 13, 393.	2.3	8
241	Flexible Wearable Biopatches for Physiological Monitoring using Dry Thin Gold Film Electrodes. , 2023, , .		0