

Laleh Najafizadeh

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

808
citations

566801

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79
times ranked

565
citing authors

#	ARTICLE	IF	CITATIONS
1	Cuff-Less Blood Pressure Estimation From Photoplethysmography via Visibility Graph and Transfer Learning. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2075-2085.	3.9	30
2	mTBI Identification from Widefield Calcium Images Using A Deep Learning Visual Dictionaries Approach. , 2022, , .		0
3	A Data-Driven Framework for Intention Prediction via Eye Movement With Applications to Assistive Systems. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 974-984.	2.7	12
4	Multi-class fNIRS Classification of Motor Execution Tasks with Application to Brain-Computer Interfaces. , 2021, , 1-32.		4
5	Early classification of motor tasks using dynamic functional connectivity graphs from EEG. Journal of Neural Engineering, 2021, 18, 016015.	1.8	21
6	An Adversarial Variational Autoencoder Approach Toward Transfer Learning for mTBI Identification. , 2021, , .		1
7	A Convolutional Autoencoder for Identification of mild Traumatic Brain Injury. , 2021, , .		1
8	Dynamic Decoding of Intention via EEG. , 2021, , .		0
9	Cuff-Less Blood Pressure Estimation via Small Convolutional Neural Networks. , 2021, 2021, 1031-1034.		4
10	A Variational Encoder Framework for Decoding Behavior Choices from Neural Data. , 2021, 2021, 6631-6634.		3
11	Detection of Mild Traumatic Brain Injury via Topological Graph Embedding and 2D Convolutional Neural Networks. , 2020, 2020, 3715-3718.		5
12	Identifying Task-Related Brain Functional States Via Cortical Networks. , 2020, , .		5
13	Classification of EEG Data Based on the Spatio-Temporo-Rhythmic Characteristics of the Task-Discriminating Functional Sub-networks. , 2020, 2020, 2865-2868.		2
14	Detecting mTBI by Learning Spatio-temporal Characteristics of Widefield Calcium Imaging Data Using Deep Learning. , 2020, 2020, 2917-2920.		4
15	Investigating learning-related neural circuitry with chronic in vivo optical imaging. Brain Structure and Function, 2020, 225, 467-480.	1.2	6
16	On fractality of functional near-infrared spectroscopy signals: analysis and applications. Neurophotonics, 2020, 7, 1.	1.7	9
17	Identifying Brain Injury from Widefield Calcium Images Using Convolution Neural Networks. , 2020, , .		5
18	Study of Functional Network Topology Alterations after Injury via Embedding Methods. , 2020, , .		5

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19	On the Spatio-Temporo-Rhythmic Mapping of the Task-Associated Brain Functional Networks. , 2020, , .		3
20	Photoplethysmography-Based Blood Pressure Estimation Using Deep Learning. , 2020, , .		7
21	Early Decoding of Tongue-Hand Movement from EEG Recordings Using Dynamic Functional Connectivity Graphs. , 2019, , .		6
22	Weighted Sparse Bayesian Learning (WSBL) for Basis Selection in Linear Underdetermined Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 7353-7367.	3.9	14
23	Quantifying Changes in Brain Function Following Injury via Network Measures. , 2019, 2019, 5217-5220.		6
24	Eye Gaze-based Early Intent Prediction Utilizing CNN-LSTM. , 2019, 2019, 1310-1313.		15
25	Source-Informed Segmentation: A Data-Driven Approach for the Temporal Segmentation of EEG. IEEE Transactions on Biomedical Engineering, 2019, 66, 1429-1446.	2.5	15
26	A Wirelessly Tunable Electrical Stimulator for Ionic Electroactive Polymers. IEEE Sensors Journal, 2018, 18, 1930-1939.	2.4	1
27	BiCMOS-Based Compensation: Toward Fully Curvature-Corrected Bandgap Reference Circuits. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 1210-1223.	3.5	20
28	Predicting Intention Through Eye Gaze Patterns. , 2018, , .		18
29	Enabling Communication for Locked-in Syndrome Patients using Deep Learning and an Emoji-based Brain Computer Interface. , 2018, , .		6
30	Identifying Dynamics of Brain Function Via Boolean Matrix Factorization. , 2018, , .		4
31	On the Spatiotemporal Characteristics of Class-Discriminating Functional Networks. , 2018, 2018, 1923-1926.		6
32	Recognizing task-specific dynamic structure of the brain function from EEG. , 2018, , .		6
33	Decoding cortical brain states from widefield calcium imaging data using visibility graph. Biomedical Optics Express, 2018, 9, 3017.	1.5	25
34	Cytocoded passwords: BioMEMS based barcoding of biological samples for user authentication in microfluidic diagnostic devices. Biomedical Microdevices, 2018, 20, 63.	1.4	3
35	A Precision SiGe Reference Circuit Utilizing Si and SiGe Bandgap Voltage Differences. IEEE Transactions on Electron Devices, 2017, 64, 392-399.	1.6	4
36	Trusted Sensor Signal Protection for Confidential Point-of-Care Medical Diagnostic. IEEE Sensors Journal, 2017, 17, 5807-5816.	2.4	7

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37	A Weighted Approach for Sparse Signal Support Estimation with Application to EEG Source Localization. IEEE Transactions on Signal Processing, 2017, 65, 6551-6565.	3.2	7
38	Dynamic time warping-based averaging framework for functional near-infrared spectroscopy brain imaging studies. Journal of Biomedical Optics, 2017, 22, 066011.	1.4	6
39	Live demonstration: A frequency-based system for wireless electrical stimulation of iEAPs. , 2017, , .		1
40	Source-informed segmentation: Towards capturing the dynamics of brain functional networks through EEG. , 2016, , .		9
41	A wirelessly tunable low drop-out regulator for subcutaneous muscle prosthesis. , 2016, , .		3
42	Multi-scale analysis of the dynamics of brain functional connectivity using EEG. , 2016, , .		10
43	In vitro characterization of electronically stimulated ionic electroactive polymers with application to muscle prosthesis. , 2016, , .		2
44	Weighted sparse Bayesian learning (WSBL) for basis selection in linear underdetermined systems. , 2016, , .		3
45	Sparse target scene reconstruction for SAR using range space rotation. , 2016, , .		5
46	Secure Point-of-Care Medical Diagnostics via Trusted Sensing and Cyto-Coded Passwords. , 2016, , .		3
47	Generalized range space property for group sparsity of linear underdetermined systems. , 2016, , .		2
48	A low drop-out regulator for subcutaneous electrical stimulation of nanofibers used in muscle prosthesis. , 2015, , .		4
49	A coil misalignment compensation concept for wireless power transfer links in biomedical implants. , 2015, , .		7
50	Global EEG segmentation using singular value decomposition. , 2015, 2015, 558-61.		16
51	EEG sparse source localization via Range Space Rotation. , 2015, , .		6
52	Single-Event Transient and Total Dose Response of Precision Voltage Reference Circuits Designed in a 90-nm SiGe BiCMOS Technology. IEEE Transactions on Nuclear Science, 2014, 61, 3210-3217.	1.2	22
53	Does brain functional connectivity alter across similar trials during imaging experiments?. , 2014, , .		1
54	A curvature-compensation technique based on the difference of Si and SiGe junction voltages for bandgap voltage circuits. , 2014, , .		2

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55	Towards temperature-stable level shifters. , 2014, , .		0
56	A low temperature coefficient voltage reference utilizing BiCMOS compensation technique. , 2014, , .		3
57	A multi-piecewise curvature-corrected technique for bandgap reference circuits. , 2013, , .		3
58	Capturing dynamic patterns of task-based functional connectivity with EEG. <i>NeuroImage</i> , 2013, 66, 311-317.	2.1	70
59	Evaluation of Non-Invasive Multispectral Imaging as a Tool for Measuring the Effect of Systemic Therapy in Kaposi Sarcoma. <i>PLoS ONE</i> , 2013, 8, e83887.	1.1	5
60	Biophotonics techniques for structural and functional imaging, in vivo. <i>Studies in Health Technology and Informatics</i> , 2013, 185, 265-97.	0.2	3
61	A hematoma detector—a practical application of instrumental motion as signal in near infra-red imaging. <i>Biomedical Optics Express</i> , 2012, 3, 192.	1.5	10
62	Normative database of judgment of complexity task with functional near infrared spectroscopy—Application for TBI. <i>NeuroImage</i> , 2012, 60, 879-883.	2.1	30
63	On the RF Properties of Weakly Saturated SiGe HBTs and Their Potential Use in Ultralow-Voltage Circuits. <i>IEEE Electron Device Letters</i> , 2011, 32, 3-5.	2.2	14
64	Accurate Modeling of Single-Event Transients in a SiGe Voltage Reference Circuit. <i>IEEE Transactions on Nuclear Science</i> , 2011, 58, 877-884.	1.2	15
65	Quantitative principal component model for skin chromophore mapping using multi-spectral images and spatial priors. <i>Biomedical Optics Express</i> , 2011, 2, 1040.	1.5	17
66	A monolithic, wide-temperature, charge amplification channel for extreme environments. , 2010, , .		9
67	Single Event Transient Response of SiGe Voltage References and Its Impact on the Performance of Analog and Mixed-Signal Circuits. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 3469-3476.	1.2	25
68	Sub-1-K Operation of SiGe Transistors and Circuits. <i>IEEE Electron Device Letters</i> , 2009, 30, 508-510.	2.2	39
69	Re-Examining TID Hardness Assurance Test Protocols for SiGe HBTs. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 3318-3325.	1.2	9
70	The Effects of Proton Irradiation on the Performance of High-Voltage n-MOSFETs Implemented in a Low-Voltage SiGe BiCMOS Platform. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 3253-3258.	1.2	6
71	Radiation response of SiGe BiCMOS mixed-signal circuits intended for emerging lunar applications. , 2007, , .		7
72	An Exploration of Substrate Coupling at K-Band Between a SiGe HBT Power Amplifier and a SiGe HBT Voltage-Controlled-Oscillator. <i>IEEE Microwave and Wireless Components Letters</i> , 2007, 17, 349-351.	2.0	7

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73	A Comparison of the Effects of X-Ray and Proton Irradiation on the Performance of SiGe Precision Voltage References. IEEE Transactions on Nuclear Science, 2007, 54, 2238-2244.	1.2	15
74	Proton Tolerance of SiGe Precision Voltage References for Extreme Temperature Range Electronics. IEEE Transactions on Nuclear Science, 2006, 53, 3210-3216.	1.2	21
75	Application of RHBD Techniques to SEU Hardening of Third-Generation SiGe HBT Logic Circuits. IEEE Transactions on Nuclear Science, 2006, 53, 3400-3407.	1.2	41
76	A High-Slew Rate SiGe BiCMOS Operational Amplifier for Operation Down to Deep Cryogenic Temperatures. Bipolar/BiCMOS Circuits and Technology Meeting, IEEE Proceedings of the, 2006, , .	0.0	22
77	SiGe BiCMOS Precision Voltage References for Extreme Temperature Range Electronics. , 2006, , .		15
78	CMOS reliability issues for emerging cryogenic Lunar electronics applications. Solid-State Electronics, 2006, 50, 959-963.	0.8	30