

Laleh Najafizadeh

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

808
citations

566801

15
h-index

642321

23
g-index

79
all docs

79
docs citations

79
times ranked

565
citing authors

#	ARTICLE	IF	CITATIONS
1	Capturing dynamic patterns of task-based functional connectivity with EEG. <i>NeuroImage</i> , 2013, 66, 311-317.	2.1	70
2	Application of RHBD Techniques to SEU Hardening of Third-Generation SiGe HBT Logic Circuits. <i>IEEE Transactions on Nuclear Science</i> , 2006, 53, 3400-3407.	1.2	41
3	Sub-1-K Operation of SiGe Transistors and Circuits. <i>IEEE Electron Device Letters</i> , 2009, 30, 508-510.	2.2	39
4	CMOS reliability issues for emerging cryogenic Lunar electronics applications. <i>Solid-State Electronics</i> , 2006, 50, 959-963.	0.8	30
5	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
6	Cuff-Less Blood Pressure Estimation From Photoplethysmography via Visibility Graph and Transfer Learning. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 2075-2085.	3.9	30
7	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
8	Decoding cortical brain states from widefield calcium imaging data using visibility graph. <i>Biomedical Optics Express</i> , 2018, 9, 3017.	1.5	25
9	A High-Slew Rate SiGe BiCMOS Operational Amplifier for Operation Down to Deep Cryogenic Temperatures. <i>Bipolar/BiCMOS Circuits and Technology Meeting, IEEE Proceedings of the</i> , 2006, , .	0.0	22
10	Single-Event Transient and Total Dose Response of Precision Voltage Reference Circuits Designed in a 90-nm SiGe BiCMOS Technology. <i>IEEE Transactions on Nuclear Science</i> , 2014, 61, 3210-3217.	1.2	22
11	Proton Tolerance of SiGe Precision Voltage References for Extreme Temperature Range Electronics. <i>IEEE Transactions on Nuclear Science</i> , 2006, 53, 3210-3216.	1.2	21
12	Early classification of motor tasks using dynamic functional connectivity graphs from EEG. <i>Journal of Neural Engineering</i> , 2021, 18, 016015.	1.8	21
13	BiCMOS-Based Compensation: Toward Fully Curvature-Corrected Bandgap Reference Circuits. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018, 65, 1210-1223.	3.5	20
14	Predicting Intention Through Eye Gaze Patterns. , 2018, , .		18
15	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
16	Global EEG segmentation using singular value decomposition. , 2015, 2015, 558-61.		16
17	SiGe BiCMOS Precision Voltage References for Extreme Temperature Range Electronics. , 2006, , .		15
18	A Comparison of the Effects of X-Ray and Proton Irradiation on the Performance of SiGe Precision Voltage References. <i>IEEE Transactions on Nuclear Science</i> , 2007, 54, 2238-2244.	1.2	15

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19	Accurate Modeling of Single-Event Transients in a SiGe Voltage Reference Circuit. IEEE Transactions on Nuclear Science, 2011, 58, 877-884.	1.2	15
20	Eye Gaze-based Early Intent Prediction Utilizing CNN-LSTM. , 2019, 2019, 1310-1313.		15
21	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
22	On the RF Properties of Weakly Saturated SiGe HBTs and Their Potential Use in Ultralow-Voltage Circuits. IEEE Electron Device Letters, 2011, 32, 3-5.	2.2	14
23	Weighted Sparse Bayesian Learning (WSBL) for Basis Selection in Linear Underdetermined Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 7353-7367.	3.9	14
24	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
25	A hematoma detector—a practical application of instrumental motion as signal in near infra-red imaging. Biomedical Optics Express, 2012, 3, 192.	1.5	10
26	Multi-scale analysis of the dynamics of brain functional connectivity using EEG. , 2016, , .		10
27	Re-Examining TID Hardness Assurance Test Protocols for SiGe HBTs. IEEE Transactions on Nuclear Science, 2009, 56, 3318-3325.	1.2	9
28	A monolithic, wide-temperature, charge amplification channel for extreme environments. , 2010, , .		9
29	Source-informed segmentation: Towards capturing the dynamics of brain functional networks through EEG. , 2016, , .		9
30	On fractality of functional near-infrared spectroscopy signals: analysis and applications. Neurophotonics, 2020, 7, 1.	1.7	9
31	Radiation response of SiGe BiCMOS mixed-signal circuits intended for emerging lunar applications. , 2007, , .		7
32	An Exploration of Substrate Coupling at K-Band Between a SiGe HBT Power Amplifier and a SiGe HBT Voltage-Controlled-Oscillator. IEEE Microwave and Wireless Components Letters, 2007, 17, 349-351.	2.0	7
33	A coil misalignment compensation concept for wireless power transfer links in biomedical implants. , 2015, , .		7
34	Trusted Sensor Signal Protection for Confidential Point-of-Care Medical Diagnostic. IEEE Sensors Journal, 2017, 17, 5807-5816.	2.4	7
35	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
36	Photoplethysmography-Based Blood Pressure Estimation Using Deep Learning. , 2020, , .		7

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37	The Effects of Proton Irradiation on the Performance of High-Voltage n-MOSFETs Implemented in a Low-Voltage SiGe BiCMOS Platform. IEEE Transactions on Nuclear Science, 2008, 55, 3253-3258.	1.2	6
38	EEG sparse source localization via Range Space Rotation. , 2015, , .		6
39	Dynamic time warping-based averaging framework for functional near-infrared spectroscopy brain imaging studies. Journal of Biomedical Optics, 2017, 22, 066011.	1.4	6
40	Enabling Communication for Locked-in Syndrome Patients using Deep Learning and an Emoji-based Brain Computer Interface. , 2018, , .		6
41	On the Spatiotemporal Characteristics of Class-Discriminating Functional Networks. , 2018, 2018, 1923-1926.		6
42	Recognizing task-specific dynamic structure of the brain function from EEG. , 2018, , .		6
43	Early Decoding of Tongue-Hand Movement from EEG Recordings Using Dynamic Functional Connectivity Graphs. , 2019, , .		6
44	Quantifying Changes in Brain Function Following Injury via Network Measures. , 2019, 2019, 5217-5220.		6
45	Investigating learning-related neural circuitry with chronic in vivo optical imaging. Brain Structure and Function, 2020, 225, 467-480.	1.2	6
46	Sparse target scene reconstruction for SAR using range space rotation. , 2016, , .		5
47	Detection of Mild Traumatic Brain Injury via Topological Graph Embedding and 2D Convolutional Neural Networks. , 2020, 2020, 3715-3718.		5
48	Identifying Task-Related Brain Functional States Via Cortical Networks. , 2020, , .		5
49	Evaluation of Non-Invasive Multispectral Imaging as a Tool for Measuring the Effect of Systemic Therapy in Kaposi Sarcoma. PLoS ONE, 2013, 8, e83887.	1.1	5
50	Identifying Brain Injury from Widefield Calcium Images Using Convolution Neural Networks. , 2020, , .		5
51	Study of Functional Network Topology Alterations after Injury via Embedding Methods. , 2020, , .		5
52	A low drop-out regulator for subcutaneous electrical stimulation of nanofibers used in muscle prosthesis. , 2015, , .		4
53	A Precision SiGe Reference Circuit Utilizing Si and SiGe Bandgap Voltage Differences. IEEE Transactions on Electron Devices, 2017, 64, 392-399.	1.6	4
54	Identifying Dynamics of Brain Function Via Boolean Matrix Factorization. , 2018, , .		4

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55	Detecting mTBI by Learning Spatio-temporal Characteristics of Widefield Calcium Imaging Data Using Deep Learning. , 2020, 2020, 2917-2920.		4
56	Multi-class fNIRS Classification of Motor Execution Tasks with Application to Brain-Computer Interfaces. , 2021, , 1-32.		4
57	Cuff-Less Blood Pressure Estimation via Small Convolutional Neural Networks. , 2021, 2021, 1031-1034.		4
58	A multi-piecewise curvature-corrected technique for bandgap reference circuits. , 2013, , .		3
59	A low temperature coefficient voltage reference utilizing BiCMOS compensation technique. , 2014, , .		3
60	A wirelessly tunable low drop-out regulator for subcutaneous muscle prosthesis. , 2016, , .		3
61	Weighted sparse Bayesian learning (WSBL) for basis selection in linear underdetermined systems. , 2016, , .		3
62	Secure Point-of-Care Medical Diagnostics via Trusted Sensing and Cyto-Coded Passwords. , 2016, , .		3
63	Cytocoded passwords: BioMEMS based barcoding of biological samples for user authentication in microfluidic diagnostic devices. Biomedical Microdevices, 2018, 20, 63.	1.4	3
64	On the Spatio-Temporo-Rhythmic Mapping of the Task-Associated Brain Functional Networks. , 2020, , .		3
65	Biophotonics techniques for structural and functional imaging, in vivo. Studies in Health Technology and Informatics, 2013, 185, 265-97.	0.2	3
66	A Variational Encoder Framework for Decoding Behavior Choices from Neural Data. , 2021, 2021, 6631-6634.		3
67	A curvature-compensation technique based on the difference of Si and SiGe junction voltages for bandgap voltage circuits. , 2014, , .		2
68	In vitro characterization of electronically stimulated ionic electroactive polymers with application to muscle prosthesis. , 2016, , .		2
69	Generalized range space property for group sparsity of linear underdetermined systems. , 2016, , .		2
70	Classification of EEG Data Based on the Spatio-Temporo-Rhythmic Characteristics of the Task-Discriminating Functional Sub-networks. , 2020, 2020, 2865-2868.		2
71	Does brain functional connectivity alter across similar trials during imaging experiments?. , 2014, , .		1
72	Live demonstration: A frequency-based system for wireless electrical stimulation of iEAPs. , 2017, , .		1

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73	A Wirelessly Tunable Electrical Stimulator for Ionic Electroactive Polymers. IEEE Sensors Journal, 2018, 18, 1930-1939.	2.4	1
74	An Adversarial Variational Autoencoder Approach Toward Transfer Learning for mTBI Identification. , 2021, , .		1
75	A Convolutional Autoencoder for Identification of mild Traumatic Brain Injury. , 2021, , .		1
76	Towards temperature-stable level shifters. , 2014, , .		0
77	Dynamic Decoding of Intention via EEG. , 2021, , .		0
78	mTBI Identification from Widefield Calcium Images Using A Deep Learning Visual Dictionaries Approach. , 2022, , .		0