

Oleksandr Makeyev

List of Publications by Year in descending order

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50
papers

1,043
citations

566801

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h-index

476904

29
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all docs

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docs citations

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times ranked

1187
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive Optimization of the Tripolar Concentric Ring Electrode Based on Its Finite Dimensions Model and Confirmed by Finite Element Method Modeling. <i>Sensors</i> , 2021, 21, 5881.	2.1	2
2	Finite element method modeling to confirm the results of comprehensive optimization of the tripolar concentric ring electrode based on its finite dimensions model. , 2021, 2021, 7244-7247.		0
3	Solving the Inter-Ring Distances Optimization Problem for Pentapolar and Sextopolar Concentric Ring Electrodes Based on the Negligible Dimensions Model of the Electrode. , 2021, 10, .		0
4	Improved Spatial Resolution of Electroencephalogram Using Tripolar Concentric Ring Electrode Sensors. <i>Journal of Sensors</i> , 2020, 2020, 1-9.	0.6	12
5	Feasibility of Automatic Detection of High-Frequency Oscillations in Human Tripolar Laplacian Electroencephalogram Using Exponentially Embedded Family. <i>Proceedings (mdpi)</i> , 2020, 42, 52.	0.2	0
6	Comprehensive optimization of the tripolar concentric ring electrode with respect to the accuracy of Laplacian estimation based on the finite dimensions model of the electrode. , 2020, 2, .		1
7	Evaluation of Bipolar, Tripolar, and Quadripolar Laplacian Estimates of Electrocardiogram via Concentric Ring Electrodes. <i>Sensors</i> , 2019, 19, 3780.	2.1	10
8	Validating the Comparison Framework for the Finite Dimensions Model of Concentric Ring Electrodes Using Human Electrocardiogram Data. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4279.	1.3	6
9	Solving the general inter-ring distances optimization problem for concentric ring electrodes to improve Laplacian estimation. <i>BioMedical Engineering OnLine</i> , 2018, 17, 117.	1.3	9
10	Recent Advances in High-Frequency Oscillations and Seizure Onset Detection Using Laplacian Electroencephalography via Tripolar Concentric Ring Electrodes. <i>Proceedings (mdpi)</i> , 2018, 2, 117.	0.2	3
11	Proof of concept Laplacian estimate derived for noninvasive tripolar concentric ring electrode with incorporated radius of the central disc and the widths of the concentric rings. , 2017, 2017, 841-844.		6
12	Analysis of variance to assess statistical significance of Laplacian estimation accuracy improvement due to novel variable inter-ring distances concentric ring electrodes. , 2017, 2017, 4110-4113.		3
13	Safety of the Transcranial Focal Electrical Stimulation via Tripolar Concentric Ring Electrodes for Hippocampal CA3 Subregion Neurons in Rats. <i>Journal of Healthcare Engineering</i> , 2017, 2017, 1-7.	1.1	3
14	Improving the Accuracy of Laplacian Estimation with Novel Variable Inter-Ring Distances Concentric Ring Electrodes. <i>Sensors</i> , 2016, 16, 858.	2.1	19
15	Finite element method modeling to assess Laplacian estimates via novel variable inter-ring distances concentric ring electrodes. , 2016, 2016, 2054-2057.		0
16	Analytic assessment of Laplacian estimates via novel variable inter-ring distances concentric ring electrodes. , 2016, 2016, 2058-2062.		0
17	Improving the accuracy of Laplacian estimation with novel multipolar concentric ring electrodes. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 80, 44-52.	2.5	19
18	Anti-IL-6 neutralizing antibody modulates blood-brain barrier function in the ovine fetus. <i>FASEB Journal</i> , 2015, 29, 1739-1753.	0.2	66

#	ARTICLE	IF	CITATIONS
19	Interleukin-1 β Transfer across the Blood-Brain Barrier in the Ovine Fetus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1388-1395.	2.4	40
20	Neutralizing anti-interleukin-1 β antibodies modulate fetal blood-brain barrier function after ischemia. <i>Neurobiology of Disease</i> , 2015, 73, 118-129.	2.1	40
21	Frequency domain synchrony between signals from the conventional disc electrode and the outer ring of the tripolar concentric ring electrode in human electroencephalogram data. , 2014, , .		1
22	Chronic transcranial focal stimulation from tripolar concentric ring electrodes does not disrupt memory formation in rats. , 2014, 2014, 6139-42.		3
23	High-Frequency Oscillations Recorded on the Scalp of Patients With Epilepsy Using Tripolar Concentric Ring Electrodes. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2014, 2, 1-11.	2.2	183
24	Multiple sensor integration for seizure onset detection in human patients comparing conventional disc versus novel tripolar concentric ring electrodes. , 2013, 2013, 17-20.		4
25	Emulating conventional disc electrode with the outer ring of the tripolar concentric ring electrode in phantom and human electroencephalogram data. , 2013, , .		5
26	Noninvasive Transcranial Focal Stimulation Via Tripolar Concentric Ring Electrodes Lessens Behavioral Seizure Activity of Recurrent Pentylentetrazole Administrations in Rats. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2013, 21, 383-390.	2.7	16
27	Toward improving the laplacian estimation with novel multipolar concentric ring electrodes. , 2013, 2013, 1486-9.		1
28	Feasibility of recording high frequency oscillations with tripolar concentric ring electrodes during pentylentetrazole-induced seizures in rats. , 2012, 2012, 4599-602.		1
29	Sensor integration of multiple tripolar concentric ring electrodes improves pentylentetrazole-induced seizure onset detection in rats. , 2012, 2012, 5154-7.		3
30	Toward a Noninvasive Automatic Seizure Control System in Rats With Transcranial Focal Stimulations via Tripolar Concentric Ring Electrodes. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2012, 20, 422-431.	2.7	29
31	Automatic identification of the number of food items in a meal using clustering techniques based on the monitoring of swallowing and chewing. <i>Biomedical Signal Processing and Control</i> , 2012, 7, 474-480.	3.5	16
32	Automatic food intake detection based on swallowing sounds. <i>Biomedical Signal Processing and Control</i> , 2012, 7, 649-656.	3.5	56
33	The Problem of Automation of Solar Concentrator Assembly and Adjustment. <i>International Journal of Advanced Robotic Systems</i> , 2011, 8, 46.	1.3	5
34	Electric fields in hippocampus due to transcranial focal electrical stimulation via concentric ring electrodes. , 2011, 2011, 5488-91.		2
35	Transcranial focal stimulation via concentric ring electrodes reduced power of pentylentetrazole-induced seizure activity in rat electroencephalogram. , 2011, 2011, 7560-3.		6
36	A comparison of tripolar concentric ring electrode and spline laplacians on a four-layer concentric spherical model. , 2011, 2011, 2949-52.		0

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37	Detection of Food Intake from Swallowing Sequences by Supervised and Unsupervised Methods. Annals of Biomedical Engineering, 2010, 38, 2766-2774.	1.3	25
38	Automatic Detection of Swallowing Events by Acoustical Means for Applications of Monitoring of Ingestive Behavior. IEEE Transactions on Biomedical Engineering, 2010, 57, 626-633.	2.5	135
39	Hybrid evolutionary algorithm for microscrew thread parameter estimation. Engineering Applications of Artificial Intelligence, 2010, 23, 446-452.	4.3	6
40	Neural network with ensembles. , 2010, , .		3
41	Detection of periods of food intake using Support Vector Machines. , 2010, 2010, 1004-7.		20
42	Reply to "Comment on "Non-invasive monitoring of chewing and swallowing for objective quantification of ingestive behavior"™. Physiological Measurement, 2009, 30, L5-L7.	1.2	2
43	Toward Objective Monitoring of Ingestive Behavior in Free-living Population. Obesity, 2009, 17, 1971-1975.	1.5	60
44	Non-invasive monitoring of chewing and swallowing for objective quantification of ingestive behavior. Physiological Measurement, 2008, 29, 525-541.	1.2	141
45	Limited receptive area neural classifier for recognition of swallowing sounds using continuous wavelet transform. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3128-31.	0.5	10
46	Pairwise Permutation Coding Neural Classifier. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	7
47	Limited receptive area neural classifier for recognition of swallowing sounds using short-time Fourier transform. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	9
48	Automatic recognition of postural allocations. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4993-6.	0.5	3
49	Permutation Coding Technique for Image Recognition Systems. IEEE Transactions on Neural Networks, 2006, 17, 1566-1579.	4.8	50
50	Limited Receptive Area neural classifier for texture recognition of metal surfaces. , 2006, , 375-384.		2