

Amir B Geva

List of Publications by Year in descending order

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59
papers

3,676
citations

257450

24
h-index

189892

50
g-index

60
all docs

60
docs citations

60
times ranked

3440
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of an early-stage Parkinson's disease neuromarker using event-related potentials, brain network analytics and machine-learning. PLoS ONE, 2022, 17, e0261947.	2.5	12
2	Brain Network Analysis of EEG Recordings Can Be Used to Assess Cognitive Function in Teenagers With 15q13.3 Microdeletion Syndrome. Frontiers in Neuroscience, 2021, 15, 622329.	2.8	1
3	Deep Brain Stimulation Can Differentiate Subregions of the Human Subthalamic Nucleus Area by EEG Biomarkers. Frontiers in Systems Neuroscience, 2021, 15, 747681.	2.5	4
4	Asynchronous Brain Computer Interfaces Using Echo State Networks. , 2020, , .		0
5	Human-in-the-loop active learning via brain computer interface. Annals of Mathematics and Artificial Intelligence, 2020, 88, 1191-1205.	1.3	12
6	Improved Back-Projection Cortical Potential Imaging by Multi-resolution Optimization Technique. Brain Topography, 2019, 32, 66-79.	1.8	0
7	Back-Projection Cortical Potential Imaging Using a Multi-Resolution Optimization Algorithm. , 2018, , .		0
8	ECG-based Potassium Measurement is Unaffected by Errors in Blood Potassium Measurement during Hemodialysis. Journal of Clinical & Experimental Nephrology, 2018, 03, .	0.1	0
9	Biological and Behavioral Patterns of Post-Stroke Depression in Rats. Canadian Journal of Neurological Sciences, 2018, 45, 451-461.	0.5	24
10	Diagnostic utility of brain activity flow patterns analysis in attention deficit hyperactivity disorder. Psychological Medicine, 2017, 47, 1259-1270.	4.5	13
11	Preliminary investigation of Brain Network Activation (BNA) and its clinical utility in sport-related concussion. Brain Injury, 2017, 31, 237-246.	1.2	23
12	Back-Projection Cortical Potential Imaging: Theory and Results. IEEE Transactions on Medical Imaging, 2017, 36, 1583-1595.	8.9	8
13	Noninvasive blood potassium measurement using signal-processed, single-lead ecg acquired from a handheld smartphone. Journal of Electrocardiology, 2017, 50, 620-625.	0.9	33
14	Back-projection cortical potential imaging: A sensitivity study. , 2017, , .		0
15	Brain Network Activation Analysis Utilizing Spatiotemporal Features for Event Related Potentials Classification. Frontiers in Computational Neuroscience, 2016, 10, 137.	2.1	10
16	The Effects of External Jugular Compression Applied during Head Impact Exposure on Longitudinal Changes in Brain Neuroanatomical and Neurophysiological Biomarkers: A Preliminary Investigation. Frontiers in Neurology, 2016, 7, 74.	2.4	58
17	Novel Bloodless Potassium Determination Using a Signal-Processed Single-Lead ECG. Journal of the American Heart Association, 2016, 5, .	3.7	59
18	Distinctive cardiac autonomic dysfunction following stress exposure in both sexes in an animal model of PTSD. Behavioural Brain Research, 2016, 308, 128-142.	2.2	22

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19	Back-projected cortical potential imaging for monitoring and stimulation tools. , 2016, , .		0
20	A novel electroencephalographyâ€based tool for objective assessment of network dynamics activated by nociceptive stimuli. <i>European Journal of Pain</i> , 2016, 20, 250-262.	2.8	12
21	Clinically Effective Treatment of Fibromyalgia Pain With High-Definition Transcranial Direct Current Stimulation: Phase II Open-Label Dose Optimization. <i>Journal of Pain</i> , 2016, 17, 14-26.	1.4	111
22	Preliminary evidence of reduced brain network activation in patients with post-traumatic migraine following concussion. <i>Brain Imaging and Behavior</i> , 2016, 10, 594-603.	2.1	35
23	Convolutional Neural Network for Multi-Category Rapid Serial Visual Presentation BCI. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 146.	2.1	103
24	Back-projected cortical potential imaging for monitoring and stimulation tools. , 2015, , .		0
25	Noninvasive potassium determination using a mathematically processed ECG: Proof of concept for a novel â€blood-less, blood testâ€ Journal of Electrocardiology, 2015, 48, 12-18.	0.9	38
26	Brain Network Activation (BNA) Reveals Scopolamine-Induced Impairment of Visual Working Memory. <i>Journal of Molecular Neuroscience</i> , 2014, 54, 59-70.	2.3	13
27	Network dynamics predict improvement in working memory performance following donepezil administration in healthy young adults. <i>NeuroImage</i> , 2014, 88, 228-241.	4.2	19
28	â€Clinical brain profilingâ€ A neuroscientific diagnostic approach for mental disorders. <i>Medical Hypotheses</i> , 2014, 83, 450-464.	1.5	6
29	Analysis of multichannel EEG: Spatio temporal parcellation (STEP). , 2012, , .		2
30	Introducing a novel approach of network oriented analysis of ERPs, demonstrated on adult attention deficit hyperactivity disorder. <i>Clinical Neurophysiology</i> , 2012, 123, 1568-1580.	1.5	33
31	Early post-stressor intervention with propranolol is ineffective in preventing posttraumatic stress responses in an animal model for PTSD. <i>European Neuropsychopharmacology</i> , 2011, 21, 230-240.	0.7	200
32	Post-traumatic stress behavioural responses in inbred mouse strains: can genetic predisposition explain phenotypic vulnerability?. <i>International Journal of Neuropsychopharmacology</i> , 2008, 11, 331-49.	2.1	65
33	Forecasting epilepsy from the heart rate signal. <i>Medical and Biological Engineering and Computing</i> , 2005, 43, 230-239.	2.8	57
34	Unsupervised Fuzzy Clustering Analysis Supports Behavioral Cutoff Criteria in an Animal Model of Posttraumatic Stress Disorder. <i>Biological Psychiatry</i> , 2005, 58, 640-650.	1.3	92
35	Assessment of Automated Scoring of Polysomnographic Recordings in a Population with Suspected Sleep-disordered Breathing. <i>Sleep</i> , 2004, 27, 1394-1403.	1.1	81
36	Somatosensory evoked potentials during a rubber-hand illusion in schizophrenia. <i>Schizophrenia Research</i> , 2003, 64, 157-163.	2.0	117

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37	Functional Connectivity and Working Memory in Schizophrenia: An Eeg Study. International Journal of Neuroscience, 2001, 106, 47-61.	1.6	73
38	Simulation of cognitive disturbances by a dynamic threshold semantic neural network. Journal of the International Neuropsychological Society, 2000, 6, 608-619.	1.8	8
39	Errors in a nonlinear graphic-semantic mapping task resulting from lesions in Boltzmann machine: Is it relevant to dyslexia?. Journal of the International Neuropsychological Society, 2000, 6, 620-626.	1.8	1
40	A comparison of cluster validity criteria for a mixture of normal distributed data. Pattern Recognition Letters, 2000, 21, 511-529.	4.2	26
41	The Perception of Rorschach Inkblots in Schizophrenia: a Neural Network Model. International Journal of Neuroscience, 2000, 104, 49-61.	1.6	5
42	Autonomic dysregulation in panic disorder and in post-traumatic stress disorder: application of power spectrum analysis of heart rate variability at rest and in response to recollection of trauma or panic attacks. Psychiatry Research, 2000, 96, 1-13.	3.3	333
43	Touch feel illusion in schizophrenic patients. Biological Psychiatry, 2000, 48, 1105-1108.	1.3	144
44	Hierarchical-fuzzy clustering of temporal-patterns and its application for time-series prediction. Pattern Recognition Letters, 1999, 20, 1519-1532.	4.2	30
45	Hierarchical unsupervised fuzzy clustering. IEEE Transactions on Fuzzy Systems, 1999, 7, 723-733.	9.8	60
46	Forecasting generalized epileptic seizures from the EEG signal by wavelet analysis and dynamic unsupervised fuzzy clustering. IEEE Transactions on Biomedical Engineering, 1998, 45, 1205-1216.	4.2	107
47	Feature extraction and state identification in biomedical signals using hierarchical fuzzy clustering. Medical and Biological Engineering and Computing, 1998, 36, 608-614.	2.8	23
48	ScaleNet-multiscale neural-network architecture for time series prediction. IEEE Transactions on Neural Networks, 1998, 9, 1471-1482.	4.2	95
49	Effects of Auditory/Visual and Lexical/Non-lexical Comparisons on Event-related Potentials in a Memory-scanning Task. Memory, 1997, 5, 321-342.	1.7	6
50	Spatio-Temporal Source Estimation of Evoked Potentials by Wavelet-Type Decomposition. , 1996, , 103-122.		3
51	Source Estimation of Auditory Brainstem Evoked Potentials: Comparison of 3CLT and Dipole Localization. Acta Oto-Laryngologica, 1995, 115, 363-366.	0.9	10
52	Spatio-temporal multiple source localization by wavelet-type decomposition of evoked potentials. Electroencephalography and Clinical Neurophysiology - Evoked Potentials, 1995, 96, 278-286.	2.0	16
53	Unsupervised classification and adaptive definition of sleep patterns. Pattern Recognition Letters, 1994, 15, 977-984.	4.2	15
54	Unsupervised clustering of evoked potentials by waveform. Medical and Biological Engineering and Computing, 1994, 32, 543-550.	2.8	27

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55	Lexicality and Modality Effects on Evoked Potentials in a Memory-Scanning Task. <i>Brain and Language</i> , 1994, 46, 353-367.	1.6	10
56	Wavelet decomposition of multichannel evoked potentials. <i>Electroencephalography and Clinical Neurophysiology</i> , 1993, 87, S25-S26.	0.3	3
57	Computational Waveform Analysis and Classification of Auditory Brainstem Evoked Potentials. <i>Acta Oto-Laryngologica</i> , 1993, 113, 279-284.	0.9	3
58	Fuzzy clustering for the estimation of the parameters of the components of mixtures of normal distributions. <i>Pattern Recognition Letters</i> , 1989, 9, 77-86.	4.2	61
59	Unsupervised optimal fuzzy clustering. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1989, 11, 773-780.	13.9	1,354