

Amir B Geva

List of Publications by Year in descending order

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59
papers

3,676
citations

257101

24
h-index

189595

50
g-index

60
all docs

60
docs citations

60
times ranked

3440
citing authors

#	ARTICLE	IF	CITATIONS
1	Unsupervised optimal fuzzy clustering. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1989, 11, 773-780.	9.7	1,354
2	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.	1.7	333
3	Early post-stressor intervention with propranolol is ineffective in preventing posttraumatic stress responses in an animal model for PTSD. European Neuropsychopharmacology, 2011, 21, 230-240.	0.3	200
4	Touch feel illusion in schizophrenic patients. Biological Psychiatry, 2000, 48, 1105-1108.	0.7	144
5	Somatosensory evoked potentials during a rubber-hand illusion in schizophrenia. Schizophrenia Research, 2003, 64, 157-163.	1.1	117
6	Clinically Effective Treatment of Fibromyalgia Pain With High-Definition Transcranial Direct Current Stimulation: Phase II Open-Label Dose Optimization. Journal of Pain, 2016, 17, 14-26.	0.7	111
7	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.	2.5	107
8	Convolutional Neural Network for Multi-Category Rapid Serial Visual Presentation BCI. Frontiers in Computational Neuroscience, 2015, 9, 146.	1.2	103
9	ScaleNet-multiscale neural-network architecture for time series prediction. IEEE Transactions on Neural Networks, 1998, 9, 1471-1482.	4.8	95
10	Unsupervised Fuzzy Clustering Analysis Supports Behavioral Cutoff Criteria in an Animal Model of Posttraumatic Stress Disorder. Biological Psychiatry, 2005, 58, 640-650.	0.7	92
11	Assessment of Automated Scoring of Polysomnographic Recordings in a Population with Suspected Sleep-disordered Breathing. Sleep, 2004, 27, 1394-1403.	0.6	81
12	Functional Connectivity and Working Memory in Schizophrenia: An Eeg Study. International Journal of Neuroscience, 2001, 106, 47-61.	0.8	73
13	Post-traumatic stress behavioural responses in inbred mouse strains: can genetic predisposition explain phenotypic vulnerability?. International Journal of Neuropsychopharmacology, 2008, 11, 331-49.	1.0	65
14	Fuzzy clustering for the estimation of the parameters of the components of mixtures of normal distributions. Pattern Recognition Letters, 1989, 9, 77-86.	2.6	61
15	Hierarchical unsupervised fuzzy clustering. IEEE Transactions on Fuzzy Systems, 1999, 7, 723-733.	6.5	60
16	Novel Bloodless Potassium Determination Using a Signal-Processed Single-Lead ECG. Journal of the American Heart Association, 2016, 5, .	1.6	59
17	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.	1.1	58
18	Forecasting epilepsy from the heart rate signal. Medical and Biological Engineering and Computing, 2005, 43, 230-239.	1.6	57

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19	Noninvasive potassium determination using a mathematically processed ECG: Proof of concept for a novel "blood-less, blood test". Journal of Electrocardiology, 2015, 48, 12-18.	0.4	38
20	Preliminary evidence of reduced brain network activation in patients with post-traumatic migraine following concussion. Brain Imaging and Behavior, 2016, 10, 594-603.	1.1	35
21	Introducing a novel approach of network oriented analysis of ERPs, demonstrated on adult attention deficit hyperactivity disorder. Clinical Neurophysiology, 2012, 123, 1568-1580.	0.7	33
22	Noninvasive blood potassium measurement using signal-processed, single-lead ecg acquired from a handheld smartphone. Journal of Electrocardiology, 2017, 50, 620-625.	0.4	33
23	Hierarchical-fuzzy clustering of temporal-patterns and its application for time-series prediction. Pattern Recognition Letters, 1999, 20, 1519-1532.	2.6	30
24	Unsupervised clustering of evoked potentials by waveform. Medical and Biological Engineering and Computing, 1994, 32, 543-550.	1.6	27
25	A comparison of cluster validity criteria for a mixture of normal distributed data. Pattern Recognition Letters, 2000, 21, 511-529.	2.6	26
26	Biological and Behavioral Patterns of Post-Stroke Depression in Rats. Canadian Journal of Neurological Sciences, 2018, 45, 451-461.	0.3	24
27	Feature extraction and state identification in biomedical signals using hierarchical fuzzy clustering. Medical and Biological Engineering and Computing, 1998, 36, 608-614.	1.6	23
28	Preliminary investigation of Brain Network Activation (BNA) and its clinical utility in sport-related concussion. Brain Injury, 2017, 31, 237-246.	0.6	23
29	Distinctive cardiac autonomic dysfunction following stress exposure in both sexes in an animal model of PTSD. Behavioural Brain Research, 2016, 308, 128-142.	1.2	22
30	Network dynamics predict improvement in working memory performance following donepezil administration in healthy young adults. NeuroImage, 2014, 88, 228-241.	2.1	19
31	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
32	Unsupervised classification and adaptive definition of sleep patterns. Pattern Recognition Letters, 1994, 15, 977-984.	2.6	15
33	Brain Network Activation (BNA) Reveals Scopolamine-Induced Impairment of Visual Working Memory. Journal of Molecular Neuroscience, 2014, 54, 59-70.	1.1	13
34	Diagnostic utility of brain activity flow patterns analysis in attention deficit hyperactivity disorder. Psychological Medicine, 2017, 47, 1259-1270.	2.7	13
35	A novel electroencephalography-based tool for objective assessment of network dynamics activated by nociceptive stimuli. European Journal of Pain, 2016, 20, 250-262.	1.4	12
36	Human-in-the-loop active learning via brain computer interface. Annals of Mathematics and Artificial Intelligence, 2020, 88, 1191-1205.	0.9	12

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37	Identification of an early-stage Parkinson's disease neuromarker using event-related potentials, brain network analytics and machine-learning. PLoS ONE, 2022, 17, e0261947.	1.1	12
38	Lexicality and Modality Effects on Evoked Potentials in a Memory-Scanning Task. Brain and Language, 1994, 46, 353-367.	0.8	10
39	Source Estimation of Auditory Brainstem Evoked Potentials: Comparison of 3CLT and Dipole Localization. Acta Oto-Laryngologica, 1995, 115, 363-366.	0.3	10
40	Brain Network Activation Analysis Utilizing Spatiotemporal Features for Event Related Potentials Classification. Frontiers in Computational Neuroscience, 2016, 10, 137.	1.2	10
41	Simulation of cognitive disturbances by a dynamic threshold semantic neural network. Journal of the International Neuropsychological Society, 2000, 6, 608-619.	1.2	8
42	Back-Projection Cortical Potential Imaging: Theory and Results. IEEE Transactions on Medical Imaging, 2017, 36, 1583-1595.	5.4	8
43	Effects of Auditory/Visual and Lexical/Non-lexical Comparisons on Event-related Potentials in a Memory-scanning Task. Memory, 1997, 5, 321-342.	0.9	6
44	"Clinical brain profiling" A neuroscientific diagnostic approach for mental disorders. Medical Hypotheses, 2014, 83, 450-464.	0.8	6
45	The Perception of Rorschach Inkblots in Schizophrenia: a Neural Network Model. International Journal of Neuroscience, 2000, 104, 49-61.	0.8	5
46	Deep Brain Stimulation Can Differentiate Subregions of the Human Subthalamic Nucleus Area by EEG Biomarkers. Frontiers in Systems Neuroscience, 2021, 15, 747681.	1.2	4
47	Wavelet decomposition of multichannel evoked potentials. Electroencephalography and Clinical Neurophysiology, 1993, 87, S25-S26.	0.3	3
48	Computational Waveform Analysis and Classification of Auditory Brainstem Evoked Potentials. Acta Oto-Laryngologica, 1993, 113, 279-284.	0.3	3
49	Spatio-Temporal Source Estimation of Evoked Potentials by Wavelet-Type Decomposition. , 1996, , 103-122.		3
50	Analysis of multichannel EEG: Spatio temporal parcellation (STEP). , 2012, , .		2
51	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.	1.2	1
52	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.	1.4	1
53	Back-projected cortical potential imaging for monitoring and stimulation tools. , 2015, , .		0
54	Back-projected cortical potential imaging for monitoring and stimulation tools. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
55	Back-projection cortical potential imaging: A sensitivity study. , 2017, , .		0
56	Back-Projection Cortical Potential Imaging Using a Multi-Resolution Optimization Algorithm. , 2018, , .		0
57	ECC-based Potassium Measurement is Unaffected by Errors in Blood Potassium Measurement during Hemodialysis. Journal of Clinical & Experimental Nephrology, 2018, 03, .	0.1	0
58	Improved Back-Projection Cortical Potential Imaging by Multi-resolution Optimization Technique. Brain Topography, 2019, 32, 66-79.	0.8	0
59	Asynchronous Brain Computer Interfaces Using Echo State Networks. , 2020, , .		0