

Gregory N Barnes

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,185
citations

430874

18
h-index

434195

31
g-index

59
all docs

59
docs citations

59
times ranked

1539
citing authors

#	ARTICLE	IF	CITATIONS
1	Alzheimer's disease diagnostics by a 3D deeply supervised adaptable convolutional network. <i>Frontiers in Bioscience - Landmark</i> , 2018, 23, 584-596.	3.0	116
2	Decreased number of interneurons and increased seizures in neuropilin 2 deficient mice: Implications for autism and epilepsy. <i>Epilepsia</i> , 2009, 50, 629-645.	5.1	102
3	Temporal specific patterns of semaphorin gene expression in rat brain after kainic acid-induced status epilepticus. <i>Hippocampus</i> , 2003, 13, 1-20.	1.9	79
4	Analysis of EEG patterns and genotypes in patients with Angelman syndrome. <i>Epilepsy and Behavior</i> , 2012, 23, 261-265.	1.7	63
5	A Personalized Autism Diagnosis CAD System Using a Fusion of Structural MRI and Resting-State Functional MRI Data. <i>Frontiers in Psychiatry</i> , 2019, 10, 392.	2.6	50
6	Using resting state functional MRI to build a personalized autism diagnosis system. <i>PLoS ONE</i> , 2018, 13, e0206351.	2.5	49
7	Genetic background regulates semaphorin gene expression and epileptogenesis in mouse brain after kainic acid status epilepticus. <i>Neuroscience</i> , 2005, 131, 853-869.	2.3	48
8	A Common Susceptibility Factor of Both Autism and Epilepsy: Functional Deficiency of GABAA Receptors. <i>Journal of Autism and Developmental Disorders</i> , 2013, 43, 68-79.	2.7	48
9	Neuroimmunologic and Neurotrophic Interactions in Autism Spectrum Disorders: Relationship to Neuroinflammation. <i>NeuroMolecular Medicine</i> , 2018, 20, 161-173.	3.4	47
10	Zinc rescues obesity-induced cardiac hypertrophy <i>via</i> stimulating metallothionein to suppress oxidative stress-activated BCL-2/CARD9/p38 MAPK pathway. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 1182-1192.	3.6	39
11	Rat Brain Protein Phosphatase 2A: An Enzyme that May Regulate Autophosphorylated Protein Kinases. <i>Journal of Neurochemistry</i> , 2002, 64, 340-353.	3.9	38
12	Ionotropic Glutamate Receptor Biology: Effect on Synaptic Connectivity and Function in Neurological Disease. <i>Current Medicinal Chemistry</i> , 2003, 10, 2059-2072.	2.4	34
13	Dynamic response of microglia/macrophage polarization following demyelination in mice. <i>Journal of Neuroinflammation</i> , 2019, 16, 188.	7.2	33
14	Cadmium and High-Fat Diet Disrupt Renal, Cardiac and Hepatic Essential Metals. <i>Scientific Reports</i> , 2019, 9, 14675.	3.3	32
15	A Comprehensive Framework for Differentiating Autism Spectrum Disorder From Neurotypicals by Fusing Structural MRI and Resting State Functional MRI. <i>Seminars in Pediatric Neurology</i> , 2020, 34, 100805.	2.0	29
16	A novel role for PTEN in the inhibition of neurite outgrowth by myelin-associated glycoprotein in cortical neurons. <i>Molecular and Cellular Neurosciences</i> , 2011, 46, 235-244.	2.2	28
17	Deletion of Semaphorin 3F in Interneurons Is Associated with Decreased GABAergic Neurons, Autism-like Behavior, and Increased Oxidative Stress Cascades. <i>Molecular Neurobiology</i> , 2019, 56, 5520-5538.	4.0	27
18	A robust DWT-based CNN-based CAD system for early diagnosis of autism using task-based fMRI. <i>Medical Physics</i> , 2021, 48, 2315-2326.	3.0	25

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19	Neuropsychiatric comorbidities in childhood absence epilepsy. <i>Nature Clinical Practice Neurology</i> , 2008, 4, 650-651.	2.5	21
20	Neuroprotective Effects of Adenosine A1 Receptor Signaling on Cognitive Impairment Induced by Chronic Intermittent Hypoxia in Mice. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 202.	3.7	20
21	A randomized controlled trial of levodopa in patients with Angelman syndrome. <i>American Journal of Medical Genetics, Part A</i> , 2018, 176, 1099-1107.	1.2	18
22	Using resting state functional MRI to build a personalized autism diagnosis system. , 2018, , .		18
23	Computer Aided Autism Diagnosis Using Diffusion Tensor Imaging. <i>IEEE Access</i> , 2020, 8, 191298-191308.	4.2	15
24	Potential crosstalk between sonic hedgehogâ€WNT signaling and neurovascular molecules: Implications for bloodâ€brain barrier integrity in autism spectrum disorder. <i>Journal of Neurochemistry</i> , 2021, 159, 15-28.	3.9	15
25	A novel CAD system for local and global early diagnosis of Alzheimer's disease based on PIB-PET scans. , 2017, , .		14
26	A new deep-learning approach for early detection of shape variations in autism using structural mri. , 2017, , .		14
27	Disruption of essential metal homeostasis in the brain by cadmium and high-fat diet. <i>Toxicology Reports</i> , 2020, 7, 1164-1169.	3.3	14
28	The Role of Structure MRI in Diagnosing Autism. <i>Diagnostics</i> , 2022, 12, 165.	2.6	14
29	A Machine Learning Approach for Grading Autism Severity Levels Using Task-based Functional MRI. , 2019, , .		13
30	The Role of Diffusion Tensor MR Imaging (DTI) of the Brain in Diagnosing Autism Spectrum Disorder: Promising Results. <i>Sensors</i> , 2021, 21, 8171.	3.8	13
31	A fast stochastic framework for automatic MR brain images segmentation. <i>PLoS ONE</i> , 2017, 12, e0187391.	2.5	10
32	A Novel Early Diagnosis System for Mild Cognitive Impairment Based on Local Region Analysis: A Pilot Study. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 643.	2.0	10
33	Identifying brain areas correlated with ADOS raw scores by studying altered dynamic functional connectivity patterns. <i>Medical Image Analysis</i> , 2021, 68, 101899.	11.6	10
34	A Novel Grading System for Autism Severity Level Using Task-Based Functional MRI: A Response to Speech Study. <i>IEEE Access</i> , 2021, 9, 100570-100582.	4.2	9
35	Towards Accurate Personalized Autism Diagnosis Using Different Imaging Modalities: sMRI, fMRI, and DTI. , 2018, , .		8
36	Medical imaging diagnosis of early Alzheimer rsquo s disease. <i>Frontiers in Bioscience - Landmark</i> , 2018, 23, 671-725.	3.0	7

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37	Platelet-Activating Factor Deteriorates Lysophosphatidylcholine-Induced Demyelination Via Its Receptor-Dependent and -Independent Effects. <i>Molecular Neurobiology</i> , 2020, 57, 4069-4081.	4.0	7
38	Dynamic glial response and crosstalk in demyelination-remyelination and neurodegeneration processes. <i>Neural Regeneration Research</i> , 2021, 16, 1359.	3.0	7
39	Identifying Personalized Autism Related Impairments Using Resting Functional MRI and ADOS Reports. <i>Lecture Notes in Computer Science</i> , 2018, , 240-248.	1.3	7
40	Electroencephalogram (EEG) Duration Needed to Detect Abnormalities in Angelman Syndrome. <i>Journal of Child Neurology</i> , 2015, 30, 58-62.	1.4	6
41	Factors Associated With Seizure Onset in Children With Autism Spectrum Disorder. <i>Pediatrics</i> , 2020, 145, S117-S125.	2.1	6
42	Functional Magnetic Resonance Imaging Based Framework for Autism Diagnosis. , 2019, , .		5
43	A Personalized Computer-Aided Diagnosis System for Mild Cognitive Impairment (MCI) Using Structural MRI (sMRI). <i>Sensors</i> , 2021, 21, 5416.	3.8	5
44	Significant Region-Based Framework for Early Diagnosis of Alzheimer's Disease Using 11C PiB-PET Scans. , 2018, , .		4
45	Personalized Computer-Aided Diagnosis for Mild Cognitive Impairment in Alzheimer's Disease Based on sMRI and ^{11}C PiB-PET Analysis. <i>IEEE Access</i> , 2020, 8, 218982-218996.	4.2	2
46	“For Whom the Bell Tolls” Blockade of Toll-Like Receptors May Regulate Seizure Occurrence. <i>Epilepsy Currents</i> , 2010, 10, 164-165.	0.8	1
47	A Cortical Based Diagnosis System for MCI Based on sMRI Features Fusion. , 2018, , .		1
48	Identifying brain pathological abnormalities of autism for classification using diffusion tensor imaging. , 2021, , 361-376.		1
49	Early autism analysis and diagnosis system using task-based fMRI in a response to speech task. , 2021, , 345-359.		1
50	Effect of Genetic Background on Ionotropic Glutamate Receptor and Neurotrophin Biology: Synaptic Connectivity and Function in Neurological Disease. <i>Frontiers in Drug Design and Discovery</i> , 2005, 2, 111-132.	0.3	0
51	Postnatal Influences on Seizure Susceptibility: Does My Mother Really Matter?. <i>Epilepsy Currents</i> , 2009, 9, 176-178.	0.8	0
52	Early Intervention. , 2013, , 1031-1032.		0
53	A Significant Regional-based Diagnosis System for Early Detection of Alzheimer's Disease Using sMRI Scans. , 2018, , .		0
54	Extract image markers of autism using hierarchical feature selection technique. , 2021, , 333-343.		0

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55	Pediatric Seizures. Pediatrics in Review, 2013, 34, 333-342.	0.4	0