

# 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	The Role of Structure MRI in Diagnosing Autism. <i>Diagnostics</i> , 2022, 12, 165.	2.6	14
2	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
3	Extract image markers of autism using hierarchical feature selection technique. , 2021, , 333-343.		0
4	Dynamic glial response and crosstalk in demyelination-remyelination and neurodegeneration processes. <i>Neural Regeneration Research</i> , 2021, 16, 1359.	3.0	7
5	Identifying brain pathological abnormalities of autism for classification using diffusion tensor imaging. , 2021, , 361-376.		1
6	Early autism analysis and diagnosis system using task-based fMRI in a response to speech task. , 2021, , 345-359.		1
7	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
8	Potential crosstalk between sonic hedgehog-WNT signaling and neurovascular molecules: Implications for blood-brain barrier integrity in autism spectrum disorder. <i>Journal of Neurochemistry</i> , 2021, 159, 15-28.	3.9	15
9	A Personalized Computer-Aided Diagnosis System for Mild Cognitive Impairment (MCI) Using Structural MRI (sMRI). <i>Sensors</i> , 2021, 21, 5416.	3.8	5
10	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
11	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
12	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
13	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
14	Factors Associated With Seizure Onset in Children With Autism Spectrum Disorder. <i>Pediatrics</i> , 2020, 145, S117-S125.	2.1	6
15	Computer Aided Autism Diagnosis Using Diffusion Tensor Imaging. <i>IEEE Access</i> , 2020, 8, 191298-191308.	4.2	15
16	Personalized Computer-Aided Diagnosis for Mild Cognitive Impairment in Alzheimer's Disease Based on sMRI and $^{11}\text{C}$ PiB-PET Analysis. <i>IEEE Access</i> , 2020, 8, 218982-218996.	4.2	2
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Dynamic response of microglia/macrophage polarization following demyelination in mice. Journal of Neuroinflammation, 2019, 16, 188.	7.2	33
20	Cadmium and High-Fat Diet Disrupt Renal, Cardiac and Hepatic Essential Metals. Scientific Reports, 2019, 9, 14675.	3.3	32
21	A Personalized Autism Diagnosis CAD System Using a Fusion of Structural MRI and Resting-State Functional MRI Data. Frontiers in Psychiatry, 2019, 10, 392.	2.6	50
22	A Machine Learning Approach for Grading Autism Severity Levels Using Task-based Functional MRI. , 2019, , .		13
23	Functional Magnetic Resonance Imaging Based Framework for Autism Diagnosis. , 2019, , .		5
24	Deletion of Semaphorin 3F in Interneurons Is Associated with Decreased GABAergic Neurons, Autism-like Behavior, and Increased Oxidative Stress Cascades. Molecular Neurobiology, 2019, 56, 5520-5538.	4.0	27
25	Neuroimmunologic and Neurotrophic Interactions in Autism Spectrum Disorders: Relationship to Neuroinflammation. NeuroMolecular Medicine, 2018, 20, 161-173.	3.4	47
26	A randomized controlled trial of levodopa in patients with Angelman syndrome. American Journal of Medical Genetics, Part A, 2018, 176, 1099-1107.	1.2	18
27	Towards Accurate Personalized Autism Diagnosis Using Different Imaging Modalities: sMRI, fMRI, and DTI. , 2018, , .		8
28	A Significant Regional-based Diagnosis System for Early Detection of Alzheimer's Disease Using sMRI Scans. , 2018, , .		0
29	A Cortical Based Diagnosis System for MCI Based on sMRI Features Fusion. , 2018, , .		1
30	Significant Region-Based Framework for Early Diagnosis of Alzheimer's Disease Using 11C PiB-PET Scans. , 2018, , .		4
31	Using resting state functional MRI to build a personalized autism diagnosis system. PLoS ONE, 2018, 13, e0206351.	2.5	49
32	Using resting state functional MRI to build a personalized autism diagnosis system. , 2018, , .		18
33	Alzheimer's disease diagnostics by a 3D deeply supervised adaptable convolutional network. Frontiers in Bioscience - Landmark, 2018, 23, 584-596.	3.0	116
34	Medical imaging diagnosis of early Alzheimer's disease. Frontiers in Bioscience - Landmark, 2018, 23, 671-725.	3.0	7
35	Identifying Personalized Autism Related Impairments Using Resting Functional MRI and ADOS Reports. Lecture Notes in Computer Science, 2018, , 240-248.	1.3	7
36	Zinc rescues obesity-induced cardiac hypertrophy via stimulating metallothionein to suppress oxidative stress-activated BCL-10/CARD-9/p38 MAPK pathway. Journal of Cellular and Molecular Medicine, 2017, 21, 1182-1192.	3.6	39

#	ARTICLE	IF	CITATIONS
37	A novel CAD system for local and global early diagnosis of Alzheimer's disease based on PIB-PET scans. , 2017, , .		14
38	A new deep-learning approach for early detection of shape variations in autism using structural mri. , 2017, , .		14
39	A fast stochastic framework for automatic MR brain images segmentation. PLoS ONE, 2017, 12, e0187391.	2.5	10
40	A Novel Early Diagnosis System for Mild Cognitive Impairment Based on Local Region Analysis: A Pilot Study. Frontiers in Human Neuroscience, 2017, 11, 643.	2.0	10
41	Electroencephalogram (EEG) Duration Needed to Detect Abnormalities in Angelman Syndrome. Journal of Child Neurology, 2015, 30, 58-62.	1.4	6
42	A Common Susceptibility Factor of Both Autism and Epilepsy: Functional Deficiency of GABAA Receptors. Journal of Autism and Developmental Disorders, 2013, 43, 68-79.	2.7	48
43	Early Intervention. , 2013, , 1031-1032.		0
44	Pediatric Seizures. Pediatrics in Review, 2013, 34, 333-342.	0.4	0
45	Analysis of EEG patterns and genotypes in patients with Angelman syndrome. Epilepsy and Behavior, 2012, 23, 261-265.	1.7	63
46	A novel role for PTEN in the inhibition of neurite outgrowth by myelin-associated glycoprotein in cortical neurons. Molecular and Cellular Neurosciences, 2011, 46, 235-244.	2.2	28
47	“For Whom the Bell Tolls” Blockade of Toll-Like Receptors May Regulate Seizure Occurrence. Epilepsy Currents, 2010, 10, 164-165.	0.8	1
48	Postnatal Influences on Seizure Susceptibility: Does My Mother Really Matter?. Epilepsy Currents, 2009, 9, 176-178.	0.8	0
49	Decreased number of interneurons and increased seizures in neuropilin 2 deficient mice: Implications for autism and epilepsy. Epilepsia, 2009, 50, 629-645.	5.1	102
50	Neuropsychiatric comorbidities in childhood absence epilepsy. Nature Clinical Practice Neurology, 2008, 4, 650-651.	2.5	21
51	Effect of Genetic Background on Ionotropic Glutamate Receptor and Neurotrophin Biology: Synaptic Connectivity and Function in Neurological Disease. Frontiers in Drug Design and Discovery, 2005, 2, 111-132.	0.3	0
52	Genetic background regulates semaphorin gene expression and epileptogenesis in mouse brain after kainic acid status epilepticus. Neuroscience, 2005, 131, 853-869.	2.3	48
53	Temporal specific patterns of semaphorin gene expression in rat brain after kainic acid-induced status epilepticus. Hippocampus, 2003, 13, 1-20.	1.9	79
54	Ionotropic Glutamate Receptor Biology: Effect on Synaptic Connectivity and Function in Neurological Disease. Current Medicinal Chemistry, 2003, 10, 2059-2072.	2.4	34

#	ARTICLE	IF	CITATIONS
55	Rat Brain Protein Phosphatase 2A: An Enzyme that May Regulate Autophosphorylated Protein Kinases. Journal of Neurochemistry, 2002, 64, 340-353.	3.9	38