

Gabriel A Devenyi

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

2,922
citations

279798

23
h-index

233421

45
g-index

106
all docs

106
docs citations

106
times ranked

4535
citing authors

#	ARTICLE	IF	CITATIONS
1	Longitudinal characterization of neuroanatomical changes in the Fischer 344 rat brain during normal aging and between sexes. <i>Neurobiology of Aging</i> , 2022, 109, 216-228.	3.1	3
2	Investigating structural subdivisions of the anterior cingulate cortex in schizophrenia, with implications for treatment resistance and glutamatergic levels. <i>Journal of Psychiatry and Neuroscience</i> , 2022, 47, E1-E10.	2.4	12
3	Differential effects of early or late exposure to prenatal maternal immune activation on mouse embryonic neurodevelopment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2114545119.	7.1	21
4	Neurochemical and cognitive changes precede structural abnormalities in the TgF344-AD rat model. <i>Brain Communications</i> , 2022, 4, fcac072.	3.3	11
5	Brain charts for the human lifespan. <i>Nature</i> , 2022, 604, 525-533.	27.8	518
6	Inter- and intra-individual variation in brain structural-cognition relationships in aging. <i>NeuroImage</i> , 2022, 257, 119254.	4.2	12
7	Longitudinal Changes After Amygdala Surgery for Intractable Aggressive Behavior: Clinical, Imaging Genetics, and Deformation-Based Morphometry Study—A Case Series. <i>Neurosurgery</i> , 2021, 88, E158-E169.	1.1	15
8	Amyloid-beta modulates the association between neurofilament light chain and brain atrophy in Alzheimer's disease. <i>Molecular Psychiatry</i> , 2021, 26, 5989-6001.	7.9	28
9	Maternal cafeteria diet exposure primes depression-like behavior in the offspring evoking lower brain volume related to changes in synaptic terminals and gliosis. <i>Translational Psychiatry</i> , 2021, 11, 53.	4.8	18
10	Understanding the impact of preprocessing pipelines on neuroimaging cortical surface analyses. <i>GigaScience</i> , 2021, 10, .	6.4	32
11	A Multi-Modal MRI Analysis of Cortical Structure in Relation to Gender Dysphoria, Sexual Orientation, and Age in Adolescents. <i>Journal of Clinical Medicine</i> , 2021, 10, 345.	2.4	17
12	Examining the Boundary Sharpness Coefficient as an Index of Cortical Microstructure in Autism Spectrum Disorder. <i>Cerebral Cortex</i> , 2021, 31, 3338-3352.	2.9	14
13	The ANTsX ecosystem for quantitative biological and medical imaging. <i>Scientific Reports</i> , 2021, 11, 9068.	3.3	81
14	Longitudinal quantification of metabolites and macromolecules reveals age- and sex-related changes in the healthy Fischer 344 rat brain. <i>Neurobiology of Aging</i> , 2021, 101, 109-122.	3.1	8
15	Bilateral Amygdala Radio-Frequency Ablation for Refractory Aggressive Behavior Alters Local Cortical Thickness to a Pattern Found in Non-refractory Patients. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 653631.	2.0	10
16	Hippocampal subfield volumes across the healthy lifespan and the effects of MR sequence on estimates. <i>NeuroImage</i> , 2021, 233, 117931.	4.2	19
17	A Diagnosis and Biotype Comparison Across the Psychosis Spectrum: Investigating Volume and Shape Amygdala-Hippocampal Differences from the B-SNIP Study. <i>Schizophrenia Bulletin</i> , 2021, 47, 1706-1717.	4.3	10
18	The impact of the Siemens Tim Trio to Prisma upgrade and the addition of volumetric navigators on cortical thickness, structure volume, and 1H-MRS indices: An MRI reliability study with implications for longitudinal study designs. <i>NeuroImage</i> , 2021, 238, 118172.	4.2	7

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19	Early or Late Gestational Exposure to Maternal Immune Activation Alters Neurodevelopmental Trajectories in Mice: An Integrated Neuroimaging, Behavioral, and Transcriptional Study. <i>Biological Psychiatry</i> , 2021, 90, 328-341.	1.3	38
20	Hippocampal shape across the healthy lifespan and its relationship with cognition. <i>Neurobiology of Aging</i> , 2021, 106, 153-168.	3.1	22
21	Cumulative exposure to ADHD medication is inversely related to hippocampus subregional volume in children. <i>NeuroImage: Clinical</i> , 2021, 31, 102695.	2.7	6
22	Involvement of the habenula in the pathophysiology of autism spectrum disorder. <i>Scientific Reports</i> , 2021, 11, 21168.	3.3	13
23	Subtle alterations in neonatal neurodevelopment following early or late exposure to prenatal maternal immune activation in mice. <i>NeuroImage: Clinical</i> , 2021, 32, 102868.	2.7	7
24	Large-scale analyses of the relationship between sex, age and intelligence quotient heterogeneity and cortical morphometry in autism spectrum disorder. <i>Molecular Psychiatry</i> , 2020, 25, 614-628.	7.9	141
25	Investigating microstructural variation in the human hippocampus using non-negative matrix factorization. <i>NeuroImage</i> , 2020, 207, 116348.	4.2	43
26	Spatial Patterning of Tissue Volume Loss in Schizophrenia Reflects Brain Network Architecture. <i>Biological Psychiatry</i> , 2020, 87, 727-735.	1.3	87
27	Altered neurotransmission and neuroimaging biomarkers of chronic arsenic poisoning in wild muskrats (<i>Ondatra zibethicus</i>) and red squirrels (<i>Tamiasciurus hudsonicus</i>) breeding near the City of Yellowknife, Northwest Territories (Canada). <i>Science of the Total Environment</i> , 2020, 707, 135556.	8.0	6
28	Fully Automated Habenula Segmentation Provides Robust and Reliable Volume Estimation Across Large Magnetic Resonance Imaging Datasets, Suggesting Intriguing Developmental Trajectories in Psychiatric Disease. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2020, 5, 923-929.	1.5	15
29	Latent Clinical-Anatomical Dimensions of Schizophrenia. <i>Schizophrenia Bulletin</i> , 2020, 46, 1426-1438.	4.3	24
30	Prenatal Maternal Stress Alters the Structural Integrity of the Hypothalamic-Pituitary-Gonadal Axis 20 Years After Exposure: Project ICE Storm. <i>Biological Psychiatry</i> , 2020, 87, S324.	1.3	1
31	Deformation-based shape analysis of the hippocampus in the semantic variant of primary progressive aphasia and Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2020, 27, 102305.	2.7	7
32	Using Non-Negative Matrix Factorization to Examine Treatment Resistance and Response in Patients With Schizophrenia: A Multimodal Imaging Study. <i>Biological Psychiatry</i> , 2020, 87, S350.	1.3	1
33	Refractoriness of aggressive behaviour to pharmacological treatment: cortical thickness analysis in autism spectrum disorder. <i>BJPsych Open</i> , 2020, 6, e85.	0.7	9
34	The ratio of posterior to anterior medial temporal lobe volumes predicts source memory performance in healthy young adults. <i>Hippocampus</i> , 2020, 30, 1209-1227.	1.9	10
35	Volumetric, shape and microstructural alterations of the hippocampal subfields in healthy aging. <i>Alzheimer's and Dementia</i> , 2020, 16, e039589.	0.8	1
36	Lifetime brain structural trajectories in TAUPS2APP mouse model of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2020, 16, e045523.	0.8	0

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37	An MRI-Derived Neuroanatomical Atlas of the Fischer 344 Rat Brain. <i>Scientific Reports</i> , 2020, 10, 6952.	3.3	28
38	Clinical-Anatomical Phenotypes of Schizophrenia. <i>Biological Psychiatry</i> , 2020, 87, S119-S120.	1.3	1
39	Altered Neurodevelopmental Trajectories in Mice Following First and Second Trimester Maternal Immune Activation. <i>Biological Psychiatry</i> , 2020, 87, S141.	1.3	0
40	Greater cortical thickness in individuals with ASD. <i>Molecular Psychiatry</i> , 2020, 25, 507-508.	7.9	3
41	Tractography-based targeting of the ventral intermediate nucleus: accuracy and clinical utility in MRgFUS thalamotomy. <i>Journal of Neurosurgery</i> , 2020, 133, 1002-1009.	1.6	20
42	Polygenic Risk and Neural Substrates of Attention-Deficit/Hyperactivity Disorder Symptoms in Youths With a History of Mild Traumatic Brain Injury. <i>Biological Psychiatry</i> , 2019, 85, 408-416.	1.3	27
43	MR-based age-related effects on the striatum, globus pallidus, and thalamus in healthy individuals across the adult lifespan. <i>Human Brain Mapping</i> , 2019, 40, 5269-5288.	3.6	55
44	Identifying schizophrenia subgroups using clustering and supervised learning. <i>Schizophrenia Research</i> , 2019, 214, 51-59.	2.0	34
45	T199. Assessing Neurometabolite Alterations in the Anterior Cingulate Cortex of Patients With Schizophrenia: A Multi-Site Proton Magnetic Resonance Spectroscopy Initiative. <i>Biological Psychiatry</i> , 2019, 85, S207.	1.3	0
46	Role of D3 dopamine receptors in modulating neuroanatomical changes in response to antipsychotic administration. <i>Scientific Reports</i> , 2019, 9, 7850.	3.3	14
47	Longitudinal assessment of the neuroanatomical consequences of deep brain stimulation: Application of fornical DBS in an Alzheimer's mouse model. <i>Brain Research</i> , 2019, 1715, 213-223.	2.2	20
48	Thalamic shape differences in elderly depressed suicide attempters. <i>European Neuropsychopharmacology</i> , 2019, 29, S54-S55.	0.7	0
49	Contributions of a high-fat diet to Alzheimer's disease-related decline: A longitudinal behavioural and structural neuroimaging study in mouse models. <i>NeuroImage: Clinical</i> , 2019, 21, 101606.	2.7	59
50	Epitaxial thin film transfer for flexible devices from reusable substrates. <i>Materials Research Express</i> , 2019, 6, 025913.	1.6	5
51	Can we accurately classify schizophrenia patients from healthy controls using magnetic resonance imaging and machine learning? A multi-method and multi-dataset study. <i>Schizophrenia Research</i> , 2019, 214, 3-10.	2.0	53
52	A multicohort, longitudinal study of cerebellar development in attention deficit hyperactivity disorder. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2018, 59, 1114-1123.	5.2	34
53	Regional brain volume changes following chronic antipsychotic administration are mediated by the dopamine D2 receptor. <i>NeuroImage</i> , 2018, 176, 226-238.	4.2	29
54	Manual segmentation of the fornix, fimbria, and alveus on high-resolution 3T MRI: Application via fully-automated mapping of the human memory circuit white and grey matter in healthy and pathological aging. <i>NeuroImage</i> , 2018, 170, 132-150.	4.2	55

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55	Evaluating accuracy of striatal, pallidal, and thalamic segmentation methods: Comparing automated approaches to manual delineation. <i>NeuroImage</i> , 2018, 170, 182-198.	4.2	75
56	Regionally specific changes in the hippocampal circuitry accompany progression of cerebrospinal fluid biomarkers in preclinical Alzheimer's disease. <i>Human Brain Mapping</i> , 2018, 39, 971-984.	3.6	29
57	Deformation-based Morphometry MRI Reveals Brain Structural Modifications in Living Mu Opioid Receptor Knockout Mice. <i>Frontiers in Psychiatry</i> , 2018, 9, 643.	2.6	2
58	T125. Thalamic Shape Differences in Elderly Depressed Patients At-Risk for Suicide. <i>Biological Psychiatry</i> , 2018, 83, S176-S177.	1.3	0
59	Dissecting genetic cross-talk between ADHD and other neurodevelopmental disorders: Evidence from behavioural, pharmacological and brain imaging investigations. <i>Psychiatry Research</i> , 2018, 269, 652-657.	3.3	5
60	Focused ultrasound thalamotomy location determines clinical benefits in patients with essential tremor. <i>Brain</i> , 2018, 141, 3405-3414.	7.6	129
61	A 3D MRI-based atlas of a lizard brain. <i>Journal of Comparative Neurology</i> , 2018, 526, 2511-2547.	1.6	22
62	Warping an atlas derived from serial histology to 5 high-resolution MRIs. <i>Scientific Data</i> , 2018, 5, 180107.	5.3	35
63	Reduced resting-state functional connectivity of the basolateral amygdala to the medial prefrontal cortex in preweaning rats exposed to chronic early-life stress. <i>Brain Structure and Function</i> , 2018, 223, 3711-3729.	2.3	44
64	Early-in-life neuroanatomical and behavioural trajectories in a triple transgenic model of Alzheimer's disease. <i>Brain Structure and Function</i> , 2018, 223, 3365-3382.	2.3	26
65	Ten simple rules for collaborative lesson development. <i>PLoS Computational Biology</i> , 2018, 14, e1005963.	3.2	12
66	Advanced processing and simulation of <i>MRS</i> data using the <i>FID</i> appliance (<i>FID-A</i>)—An open source, <i>MATLAB</i> -based toolkit. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 23-33.	3.0	255
67	The effect of crack cocaine addiction and age on the microstructure and morphology of the human striatum and thalamus using shape analysis and fast diffusion kurtosis imaging. <i>Translational Psychiatry</i> , 2017, 7, e1122-e1122.	4.8	52
68	Cerebellar anatomical alterations and attention to eyes in autism. <i>Scientific Reports</i> , 2017, 7, 12008.	3.3	39
69	Neuroanatomical and Symptomatic Sex Differences in Individuals at Clinical High Risk for Psychosis. <i>Frontiers in Psychiatry</i> , 2017, 8, 291.	2.6	17
70	Heritability of hippocampal subfield volumes using a twin and non-twin siblings design. <i>Human Brain Mapping</i> , 2017, 38, 4337-4352.	3.6	27
71	BIDS apps: Improving ease of use, accessibility, and reproducibility of neuroimaging data analysis methods. <i>PLoS Computational Biology</i> , 2017, 13, e1005209.	3.2	218
72	Purified water etching of native oxides on heteroepitaxial CdTe thin films. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 495304.	2.8	1

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73	Optical characterization of epitaxial single crystal CdTe thin films on Al ₂ O ₃ (0001) substrates. Thin Solid Films, 2014, 570, 155-158.	1.8	7
74	Tilted epitaxy on (211)-oriented substrates. Applied Physics Letters, 2013, 102, 132103.	3.3	10
75	Optimum reactive ion etching of x-cut quartz using SF ₆ and Ar. Journal of Micromechanics and Microengineering, 2013, 23, 117002.	2.6	11
76	Manipulating the size distribution of supported gold nanostructures. Applied Physics Letters, 2012, 100, .	3.3	18
77	Photovoltaic properties of M-phthalocyanine/fullerene organic solar cells. Solar Energy, 2012, 86, 1683-1688.	6.1	58
78	The role of vicinal silicon surfaces in the formation of epitaxial twins during the growth of III-V thin films. Journal of Applied Physics, 2011, 110, .	2.5	21
79	Atypical grain growth for (211) CdTe films deposited on surface reconstructed (100) SrTiO ₃ substrates. Applied Surface Science, 2009, 255, 5674-5681.	6.1	16
80	Epitaxially Driven Formation of Intricate Supported Gold Nanostructures on a Lattice-Matched Oxide Substrate. Nano Letters, 2009, 9, 4258-4263.	9.1	20
81	The role of substrate surface alteration in the fabrication of vertically aligned CdTe nanowires. Nanotechnology, 2008, 19, 185601.	2.6	26