Gabriel A Devenyi

List of Publications by Year
in descending order

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	Brain charts for the human lifespan. Nature, 2022, 604, 525-533.	27.8	518
2	Advanced processing and simulation of <scp>MRS</scp> data using the <scp>FID</scp> appliance (<scp>FIDâ€A</scp>)â€"An open source, <scp>MATLAB</scp>â€based toolkit. Magnetic Resonance in Medicine, 2017, 77, 23-33.	3.0	255
3	BIDS apps: Improving ease of use, accessibility, and reproducibility of neuroimaging data analysis methods. PLoS Computational Biology, 2017, 13, e1005209.	3.2	218
4	Large-scale analyses of the relationship between sex, age and intelligence quotient heterogeneity and cortical morphometry in autism spectrum disorder. Molecular Psychiatry, 2020, 25, 614-628.	7.9	141
5	Focused ultrasound thalamotomy location determines clinical benefits in patients with essential tremor. Brain, 2018, 141, 3405-3414.	7.6	129
6	Spatial Patterning of Tissue Volume Loss in Schizophrenia Reflects Brain Network Architecture. Biological Psychiatry, 2020, 87, 727-735.	1.3	87
7	The ANTsX ecosystem for quantitative biological and medical imaging. Scientific Reports, 2021, 11, 9068.	3.3	81
8	Evaluating accuracy of striatal, pallidal, and thalamic segmentation methods: Comparing automated approaches to manual delineation. NeuroImage, 2018, 170, 182-198.	4.2	75
9	Contributions of a high-fat diet to Alzheimer's disease-related decline: A longitudinal behavioural and structural neuroimaging study in mouse models. NeuroImage: Clinical, 2019, 21, 101606.	2.7	59
10	Photovoltaic properties of M-phthalocyanine/fullerene organic solar cells. Solar Energy, 2012, 86, 1683-1688.	6.1	58
11	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. NeuroImage, 2018, 170, 132-150.	4.2	55
12	MRâ€based ageâ€related effects on the striatum, globus pallidus, and thalamus in healthy individuals across the adult lifespan. Human Brain Mapping, 2019, 40, 5269-5288.	3.6	55
13	Can we accurately classify schizophrenia patients from healthy controls using magnetic resonance imaging and machine learning? A multi-method and multi-dataset study. Schizophrenia Research, 2019, 214, 3-10.	2.0	53
14	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. Translational Psychiatry, 2017, 7, e1122-e1122.	4.8	52
15	Reduced resting-state functional connectivity of the basolateral amygdala to the medial prefrontal cortex in preweaning rats exposed to chronic early-life stress. Brain Structure and Function, 2018, 223, 3711-3729.	2.3	44
16	Investigating microstructural variation in the human hippocampus using non-negative matrix factorization. NeuroImage, 2020, 207, 116348.	4.2	43
17	Cerebellar anatomical alterations and attention to eyes in autism. Scientific Reports, 2017, 7, 12008.	3.3	39
18	Early or Late Gestational Exposure to Maternal Immune Activation Alters Neurodevelopmental Trajectories in Mice: An Integrated Neuroimaging, Behavioral, and Transcriptional Study. Biological Psychiatry, 2021, 90, 328-341.	1.3	38

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19	Warping an atlas derived from serial histology to 5 high-resolution MRIs. Scientific Data, 2018, 5, 180107.	5.3	35
20	A multicohort, longitudinal study of cerebellar development in attention deficit hyperactivity disorder. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2018, 59, 1114-1123.	5.2	34
21	Identifying schizophrenia subgroups using clustering and supervised learning. Schizophrenia Research, 2019, 214, 51-59.	2.0	34
22	Understanding the impact of preprocessing pipelines on neuroimaging cortical surface analyses. GigaScience, 2021, 10, .	6.4	32
23	Regional brain volume changes following chronic antipsychotic administration are mediated by the dopamine D2 receptor. NeuroImage, 2018, 176, 226-238.	4.2	29
24	Regionally specific changes in the hippocampal circuitry accompany progression of cerebrospinal fluid biomarkers in preclinical Alzheimer's disease. Human Brain Mapping, 2018, 39, 971-984.	3.6	29
25	An MRI-Derived Neuroanatomical Atlas of the Fischer 344 Rat Brain. Scientific Reports, 2020, 10, 6952.	3.3	28
26	Amyloid-beta modulates the association between neurofilament light chain and brain atrophy in Alzheimerâ€™s disease. Molecular Psychiatry, 2021, 26, 5989-6001.	7.9	28
27	Polygenic Risk and Neural Substrates of Attention-Deficit/Hyperactivity Disorder Symptoms in Youths With a History of Mild Traumatic Brain Injury. Biological Psychiatry, 2019, 85, 408-416.	1.3	27
28	Heritability of hippocampal subfield volumes using a twin and non-twin siblings design. Human Brain Mapping, 2017, 38, 4337-4352.	3.6	27
29	The role of substrate surface alteration in the fabrication of vertically aligned CdTe nanowires. Nanotechnology, 2008, 19, 185601.	2.6	26
30	Early-in-life neuroanatomical and behavioural trajectories in a triple transgenic model of Alzheimerâ€™s disease. Brain Structure and Function, 2018, 223, 3365-3382.	2.3	26
31	Latent Clinical-Anatomical Dimensions of Schizophrenia. Schizophrenia Bulletin, 2020, 46, 1426-1438.	4.3	24
32	A 3D MRIâ€based atlas of a lizard brain. Journal of Comparative Neurology, 2018, 526, 2511-2547.	1.6	22
33	Hippocampal shape across the healthy lifespan and its relationship with cognition. Neurobiology of Aging, 2021, 106, 153-168.	3.1	22
34	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
35	Differential effects of early or late exposure to prenatal maternal immune activation on mouse embryonic neurodevelopment. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2114545119.	7.1	21
36	Epitaxially Driven Formation of Intricate Supported Gold Nanostructures on a Lattice-Matched Oxide Substrate. Nano Letters, 2009, 9, 4258-4263.	9.1	20

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37	Longitudinal assessment of the neuroanatomical consequences of deep brain stimulation: Application of fornical DBS in an Alzheimerâ€™s mouse model. Brain Research, 2019, 1715, 213-223.	2.2	20
38	Tractography-based targeting of the ventral intermediate nucleus: accuracy and clinical utility in MRgFUS thalamotomy. Journal of Neurosurgery, 2020, 133, 1002-1009.	1.6	20
39	Hippocampal subfield volumes across the healthy lifespan and the effects of MR sequence on estimates. NeuroImage, 2021, 233, 117931.	4.2	19
40	Manipulating the size distribution of supported gold nanostructures. Applied Physics Letters, 2012, 100, .	3.3	18
41	Maternal cafeteria diet exposure primes depression-like behavior in the offspring evoking lower brain volume related to changes in synaptic terminals and gliosis. Translational Psychiatry, 2021, 11, 53.	4.8	18
42	Neuroanatomical and Symptomatic Sex Differences in Individuals at Clinical High Risk for Psychosis. Frontiers in Psychiatry, 2017, 8, 291.	2.6	17
43	A Multi-Modal MRI Analysis of Cortical Structure in Relation to Gender Dysphoria, Sexual Orientation, and Age in Adolescents. Journal of Clinical Medicine, 2021, 10, 345.	2.4	17
44	Atypical grain growth for (211) CdTe films deposited on surface reconstructed (100) SrTiO3 substrates. Applied Surface Science, 2009, 255, 5674-5681.	6.1	16
45	Longitudinal Changes After Amygdala Surgery for Intractable Aggressive Behavior: Clinical, Imaging Genetics, and Deformation-Based Morphometry Studyâ€”A Case Series. Neurosurgery, 2021, 88, E158-E169.	1.1	15
46	Fully Automated Habenula Segmentation Provides Robust and Reliable Volume Estimation Across Large Magnetic Resonance Imaging Datasets, Suggesting Intriguing Developmental Trajectories in Psychiatric Disease. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2020, 5, 923-929.	1.5	15
47	Role of D3 dopamine receptors in modulating neuroanatomical changes in response to antipsychotic administration. Scientific Reports, 2019, 9, 7850.	3.3	14
48	Examining the Boundary Sharpness Coefficient as an Index of Cortical Microstructure in Autism Spectrum Disorder. Cerebral Cortex, 2021, 31, 3338-3352.	2.9	14
49	Involvement of the habenula in the pathophysiology of autism spectrum disorder. Scientific Reports, 2021, 11, 21168.	3.3	13
50	Ten simple rules for collaborative lesson development. PLoS Computational Biology, 2018, 14, e1005963.	3.2	12
51	Investigating structural subdivisions of the anterior cingulate cortex in schizophrenia, with implications for treatment resistance and glutamatergic levels. Journal of Psychiatry and Neuroscience, 2022, 47, E1-E10.	2.4	12
52	Inter- and intra-individual variation in brain structural-cognition relationships in aging. NeuroImage, 2022, 257, 119254.	4.2	12
53	Optimum reactive ion etching ofx-cut quartz using SF6and Ar. Journal of Micromechanics and Microengineering, 2013, 23, 117002.	2.6	11
54	Neurochemical and cognitive changes precede structural abnormalities in the TgF344-AD rat model. Brain Communications, 2022, 4, fcac072.	3.3	11

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55	Tilted epitaxy on (211)-oriented substrates. Applied Physics Letters, 2013, 102, 132103.	3.3	10
56	The ratio of posteriorâ€“anterior medial temporal lobe volumes predicts source memory performance in healthy young adults. Hippocampus, 2020, 30, 1209-1227.	1.9	10
57	Bilateral Amygdala Radio-Frequency Ablation for Refractory Aggressive Behavior Alters Local Cortical Thickness to a Pattern Found in Non-refractory Patients. Frontiers in Human Neuroscience, 2021, 15, 653631.	2.0	10
58	A Diagnosis and Biotype Comparison Across the Psychosis Spectrum: Investigating Volume and Shape Amygdala-Hippocampal Differences from the B-SNIP Study. Schizophrenia Bulletin, 2021, 47, 1706-1717.	4.3	10
59	Refractoriness of aggressive behaviour to pharmacological treatment: cortical thickness analysis in autism spectrum disorder. BJPsych Open, 2020, 6, e85.	0.7	9
60	Longitudinal quantification of metabolites and macromolecules reveals age- and sex-related changes in the healthy Fischer 344 rat brain. Neurobiology of Aging, 2021, 101, 109-122.	3.1	8
61	Optical characterization of epitaxial single crystal CdTe thin films on Al2O3 (0001) substrates. Thin Solid Films, 2014, 570, 155-158.	1.8	7
62	Deformation-based shape analysis of the hippocampus in the semantic variant of primary progressive aphasia and Alzheimerâ€™s disease. NeuroImage: Clinical, 2020, 27, 102305.	2.7	7
63	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. NeuroImage, 2021, 238, 118172.	4.2	7
64	Subtle alterations in neonatal neurodevelopment following early or late exposure to prenatal maternal immune activation in mice. NeuroImage: Clinical, 2021, 32, 102868.	2.7	7
65	Altered neurotransmission and neuroimaging biomarkers of chronic arsenic poisoning in wild muskrats (Ondatra zibethicus) and red squirrels (Tamiasciurus hudsonicus) breeding near the City of Yellowknife, Northwest Territories (Canada). Science of the Total Environment, 2020, 707, 135556.	8.0	6
66	Cumulative exposure to ADHD medication is inversely related to hippocampus subregional volume in children. NeuroImage: Clinical, 2021, 31, 102695.	2.7	6
67	Dissecting genetic cross-talk between ADHD and other neurodevelopmental disorders: Evidence from behavioural, pharmacological and brain imaging investigations. Psychiatry Research, 2018, 269, 652-657.	3.3	5
68	Epitaxial thin film transfer for flexible devices from reusable substrates. Materials Research Express, 2019, 6, 025913.	1.6	5
69	Greater cortical thickness in individuals with ASD. Molecular Psychiatry, 2020, 25, 507-508.	7.9	3
70	Longitudinal characterization of neuroanatomical changes in the Fischer 344 rat brain during normal aging and between sexes. Neurobiology of Aging, 2022, 109, 216-228.	3.1	3
71	Deformation-based Morphometry MRI Reveals Brain Structural Modifications in Living Mu Opioid Receptor Knockout Mice. Frontiers in Psychiatry, 2018, 9, 643.	2.6	2
72	Purified water etching of native oxides on heteroepitaxial CdTe thin films. Journal Physics D: Applied Physics, 2014, 47, 495304.	2.8	1

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73	Prenatal Maternal Stress Alters the Structural Integrity of the Hypothalamic-Pituitary-Gonadal Axis 20 Years After Exposure: Project ICE Storm. Biological Psychiatry, 2020, 87, S324.	1.3	1
74	Using Non-Negative Matrix Factorization to Examine Treatment Resistance and Response in Patients With Schizophrenia: A Multimodal Imaging Study. Biological Psychiatry, 2020, 87, S350.	1.3	1
75	Volumetric, shape and microstructural alterations of the hippocampal subfields in healthy aging. Alzheimer's and Dementia, 2020, 16, e039589.	0.8	1
76	Clinical-Anatomical Phenotypes of Schizophrenia. Biological Psychiatry, 2020, 87, S119-S120.	1.3	1
77	T125. Thalami Shape Differences in Elderly Depressed Patients At-Risk for Suicide. Biological Psychiatry, 2018, 83, S176-S177.	1.3	0
78	T199. Assessing Neurometabolite Alterations in theÂAnterior Cingulate Cortex of Patients With Schizophrenia: A Multi-Site Proton Magnetic Resonance Spectroscopy Initiative. Biological Psychiatry, 2019, 85, S207.	1.3	0
79	Thalami shape differences in elderly depressed suicide attempters. European Neuropsychopharmacology, 2019, 29, S54-S55.	0.7	0
80	Lifetime brain structural trajectories in TAUPS2APP mouse model of Alzheimer's disease. Alzheimer's and Dementia, 2020, 16, e045523.	0.8	0
81	Altered Neurodevelopmental Trajectories in Mice Following First and Second Trimester Maternal Immune Activation. Biological Psychiatry, 2020, 87, S141.	1.3	0