Gabriel A Devenyi

List of Publications by Citations

82 papers	1,232 citations	19 h-index	32 g-index
106 ext. papers	2,106 ext. citations	5.6 avg, IF	4.49 L-index

#	Paper	IF	Citations
82	Advanced processing and simulation of MRS data using the FID appliance (FID-A)-An open source, MATLAB-based toolkit. *Magnetic Resonance in Medicine*, **2017**, 77, 23-33	4.4	131
81	BIDS apps: Improving ease of use, accessibility, and reproducibility of neuroimaging data analysis methods. *PLoS Computational Biology*, **2017**, 13, e1005209	5	129
80	Focused ultrasound thalamotomy location determines clinical benefits in patients with essential tremor. *Brain*, **2018**, 141, 3405-3414	11.2	84
79	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	15.1	64
78	Photovoltaic properties of M-phthalocyanine/fullerene organic solar cells. *Solar Energy*, **2012**, 86, 1683-1688	6	53
77	Evaluating accuracy of striatal, pallidal, and thalamic segmentation methods: Comparing automated approaches to manual delineation. *NeuroImage*, **2018**, 170, 182-198	7.9	50
76	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	7.9	35
75	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	3.6	29
74	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	8.6	28
73	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	4	28
72	Spatial Patterning of Tissue Volume Loss in Schizophrenia Reflects Brain Network Architecture. *Biological Psychiatry*, **2020**, 87, 727-735	7.9	28
71	MR-based age-related effects on the striatum, globus pallidus, and thalamus in healthy individuals across the adult lifespan. *Human Brain Mapping*, **2019**, 40, 5269-5288	5.9	27
70	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	5.3	27
69	The role of substrate surface alteration in the fabrication of vertically aligned CdTe nanowires. *Nanotechnology*, **2008**, 19, 185601	3.4	25
68	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	5.9	24
67	Cerebellar anatomical alterations and attention to eyes in autism. *Scientific Reports*, **2017**, 7, 12008	4.9	23
66	Regional brain volume changes following chronic antipsychotic administration are mediated by the dopamine D2 receptor. *NeuroImage*, **2018**, 176, 226-238	7.9	20

65	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	7.9	19
64	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, 124316	2.5	19
63	Epitaxially driven formation of intricate supported gold nanostructures on a lattice-matched oxide substrate. *Nano Letters*, **2009**, 9, 4258-63	11.5	19
62	Manipulating the size distribution of supported gold nanostructures. *Applied Physics Letters*, **2012**, 100, 013111	3.4	18
61	Warping an atlas derived from serial histology to 5 high-resolution MRIs. *Scientific Data*, **2018**, 5, 180107	8.2	18
60	Early-in-life neuroanatomical and behavioural trajectories in a triple transgenic model of Alzheimer's disease. *Brain Structure and Function*, **2018**, 223, 3365-3382	4	17
59	A 3D MRI-based atlas of a lizard brain. *Journal of Comparative Neurology*, **2018**, 526, 2511-2547	3.4	17
58	Heritability of hippocampal subfield volumes using a twin and non-twin siblings design. *Human Brain Mapping*, **2017**, 38, 4337-4352	5.9	17
57	Identifying schizophrenia subgroups using clustering and supervised learning. *Schizophrenia Research*, **2019**, 214, 51-59	3.6	16
56	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	7.9	16
55	Tractography-based targeting of the ventral intermediate nucleus: accuracy and clinical utility in MRgFUS thalamotomy. *Journal of Neurosurgery*, **2019**, 1-8	3.2	16
54	Atypical grain growth for (2 1 1) CdTe films deposited on surface reconstructed (1 0 0) SrTiO3 substrates. *Applied Surface Science*, **2009**, 255, 5674-5681	6.7	15
53	Brain charts for the human lifespan.. *Nature*, **2022**,	50.4	15
52	Role of D3 dopamine receptors in modulating neuroanatomical changes in response to antipsychotic administration. *Scientific Reports*, **2019**, 9, 7850	4.9	11
51	Investigating microstructural variation in the human hippocampus using non-negative matrix factorization. *NeuroImage*, **2020**, 207, 116348	7.9	11
50	An MRI-Derived Neuroanatomical Atlas of the Fischer 344 Rat Brain. *Scientific Reports*, **2020**, 10, 6952	4.9	10
49	Optimum reactive ion etching ofx-cut quartz using SF6and Ar. *Journal of Micromechanics and Microengineering*, **2013**, 23, 117002	2	10
48	Tilted epitaxy on (211)-oriented substrates. *Applied Physics Letters*, **2013**, 102, 132103	3.4	9

47	The ANTsX ecosystem for quantitative biological and medical imaging. *Scientific Reports*, **2021**, 11, 9068	4.9	9
46	Amyloid-beta modulates the association between neurofilament light chain and brain atrophy in Alzheimer's disease. *Molecular Psychiatry*, **2020**,	15.1	8
45	Neuroanatomical and Symptomatic Sex Differences in Individuals at Clinical High Risk for Psychosis. *Frontiers in Psychiatry*, **2017**, 8, 291	5	8
44	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	3.4	8
43	Latent Clinical-Anatomical Dimensions of Schizophrenia. *Schizophrenia Bulletin*, **2020**, 46, 1426-1438	1.3	8
42	Understanding the impact of preprocessing pipelines on neuroimaging cortical surface analyses. *GigaScience*, **2021**, 10,	7.6	7
41	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,	5.1	7
40	Longitudinal assessment of the neuroanatomical consequences of deep brain stimulation: Application of fornical DBS in an Alzheimer's mouse model. *Brain Research*, **2019**, 1715, 213-223	3.7	6
39	Optical characterization of epitaxial single crystal CdTe thin films on Al2O3 (0001) substrates. *Thin Solid Films*, **2014**, 570, 155-158	2.2	6
38	Longitudinal Changes After Amygdala Surgery for Intractable Aggressive Behavior: Clinical, Imaging Genetics, and Deformation-Based Morphometry Study-A Case Series. *Neurosurgery*, **2021**, 88, E158-E169	3.2	6
37	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	7.9	6
36	Refractoriness of aggressive behaviour to pharmacological treatment: cortical thickness analysis in autism spectrum disorder. *BJPsych Open*, **2020**, 6, e85	5	5
35	Hippocampal subfield volumes across the healthy lifespan and the effects of MR sequence on estimates. *NeuroImage*, **2021**, 233, 117931	7.9	5
34	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	10.2	4
33	Deformation-based shape analysis of the hippocampus in the semantic variant of primary progressive aphasia and Alzheimer's disease. *NeuroImage: Clinical*, **2020**, 27, 102305	5.3	4
32	The ratio of posterior-anterior medial temporal lobe volumes predicts source memory performance in healthy young adults. *Hippocampus*, **2020**, 30, 1209-1227	3.5	4
31	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	8.6	4
30	Involvement of the habenula in the pathophysiology of autism spectrum disorder. *Scientific Reports* , **2021**, 11, 21168	4.9	3

29	BIDS Apps: Improving ease of use, accessibility, and reproducibility of neuroimaging data analysis methods		3
28	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	5.6	3
27	Epitaxial thin film transfer for flexible devices from reusable substrates. *Materials Research Express*, **2019**, 6, 025913	1.7	3
26	Dissecting genetic cross-talk between ADHD and other neurodevelopmental disorders: Evidence from behavioural, pharmacological and brain imaging investigations. *Psychiatry Research*, **2018**, 269, 652-657	9.9	3
25	Longitudinal characterization of neuroanatomical changes in the Fischer 344 rat brain during normal aging and between sexes. *Neurobiology of Aging*, **2021**, 109, 216-228	5.6	2
24	Understanding the impact of preprocessing pipelines on neuroimaging cortical surface analyses		2
23	Spatial patterning of tissue volume loss in schizophrenia reflects brain network architecture		2
22	Examining the Boundary Sharpness Coefficient as an Index of Cortical Microstructure in Autism Spectrum Disorder. *Cerebral Cortex*, **2021**, 31, 3338-3352	5.1	2
21	Deformation-based Morphometry MRI Reveals Brain Structural Modifications in Living Mu Opioid Receptor Knockout Mice. *Frontiers in Psychiatry*, **2018**, 9, 643	5	2
20	Hippocampal shape across the healthy lifespan and its relationship with cognition. *Neurobiology of Aging*, **2021**, 106, 153-168	5.6	2
19	Greater cortical thickness in individuals with ASD. *Molecular Psychiatry*, **2020**, 25, 507-508	15.1	1
18	Purified water etching of native oxides on heteroepitaxial CdTe thin films. *Journal Physics D: Applied Physics*, **2014**, 47, 495304	3	1
17	Subtle alterations in neonatal neurodevelopment following early or late exposure to prenatal maternal immune activation in mice. *NeuroImage: Clinical*, **2021**, 32, 102868	5.3	1
16	Longitudinal Quantification of Metabolites and Macromolecules Reveals Age- and Sex-Related Changes in the Healthy Fischer 344 Rat Brain		1
15	Examining the boundary sharpness coefficient as an index of cortical microstructure and its relationship to age and sex in autism spectrum disorder		1
14	Early or late gestational exposure to maternal immune activation alters neurodevelopmental trajectories in mice: an integrated neuroimaging, behavioural, and transcriptional study		1
13	Involvement of the habenula in the pathophysiology of autism spectrum disorder		1
12	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	3.3	1

11	Differential effects of early or late exposure to prenatal maternal immune activation on mouse embryonic neurodevelopment		1
10	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	7.9	1
9	The impact of the Siemens Tim Trio to Prisma upgrade and the addition of volumetric navigators on cortical thickness, structure volume, and H-MRS indices: An MRI reliability study with implications for longitudinal study designs. *NeuroImage*, **2021**, 238, 118172	11.5	1
8	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	1.2	0
7	Volumetric, shape and microstructural alterations of the hippocampal subfields in healthy aging. *Alzheimers and Dementia*, **2020**, 16, e039589	4.5	0
6	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	4.5	0
5	Neurochemical and cognitive changes precede structural abnormalities in the TgF344-AD rat model.. *Brain Communications*, **2022**, 4, fcac072	7.9	0
4	Inter- and intra-individual variation in brain structural-cognition relationships in aging.. *NeuroImage*, **2022**, 119254	1.2	
3	Lifetime brain structural trajectories in TAUPS2APP mouse model of Alzheimer's disease. *Alzheimers and Dementia*, **2020**, 16, e045523	1.2	
2	Thalami shape differences in elderly depressed suicide attempters. *European Neuropsychopharmacology*, **2019**, 29, S54-S55	5.3	
1	Cumulative exposure to ADHD medication is inversely related to hippocampus subregional volume in children. *NeuroImage: Clinical*, **2021**, 31, 102695		