

Gabriel A Devenyi

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | 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 | 4.5 | 0 |
| 81 | 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 | 11.5 | 1 |
| 80 | Neurochemical and cognitive changes precede structural abnormalities in the TgF344-AD rat model.. <i>Brain Communications</i> , 2022 , 4, fca072 | 4.5 | 0 |
| 79 | Brain charts for the human lifespan.. <i>Nature</i> , 2022 , | 50.4 | 15 |
| 78 | Inter- and intra-individual variation in brain structural-cognition relationships in aging.. <i>NeuroImage</i> , 2022 , 119254 | 7.9 | 0 |
| 77 | Longitudinal characterization of neuroanatomical changes in the Fischer 344 rat brain during normal aging and between sexes. <i>Neurobiology of Aging</i> , 2021 , 109, 216-228 | 5.6 | 2 |
| 76 | Involvement of the habenula in the pathophysiology of autism spectrum disorder. <i>Scientific Reports</i> , 2021 , 11, 21168 | 4.9 | 3 |
| 75 | Subtle alterations in neonatal neurodevelopment following early or late exposure to prenatal maternal immune activation in mice. <i>NeuroImage: Clinical</i> , 2021 , 32, 102868 | 5.3 | 1 |
| 74 | 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 ^{3.2} | | 6 |
| 73 | Examining the Boundary Sharpness Coefficient as an Index of Cortical Microstructure in Autism Spectrum Disorder. <i>Cerebral Cortex</i> , 2021 , 31, 3338-3352 | 5.1 | 2 |
| 72 | The ANTsX ecosystem for quantitative biological and medical imaging. <i>Scientific Reports</i> , 2021 , 11, 9068 | 4.9 | 9 |
| 71 | 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 | 5.6 | 3 |
| 70 | 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 | 3.3 | 1 |
| 69 | Hippocampal subfield volumes across the healthy lifespan and the effects of MR sequence on estimates. <i>NeuroImage</i> , 2021 , 233, 117931 | 7.9 | 5 |
| 68 | 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 | 8.6 | 4 |
| 67 | Understanding the impact of preprocessing pipelines on neuroimaging cortical surface analyses. <i>GigaScience</i> , 2021 , 10, | 7.6 | 7 |
| 66 | 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, | 5.1 | 7 |

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|----|---|------|----|
| 65 | 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 | 1.3 | 1 |
| 64 | 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. <i>NeuroImage</i> , 2021 , 238, 118172 | 7.9 | 1 |
| 63 | 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 | 7.9 | 6 |
| 62 | Hippocampal shape across the healthy lifespan and its relationship with cognition. <i>Neurobiology of Aging</i> , 2021 , 106, 153-168 | 5.6 | 2 |
| 61 | Cumulative exposure to ADHD medication is inversely related to hippocampus subregional volume in children. <i>NeuroImage: Clinical</i> , 2021 , 31, 102695 | 5.3 | |
| 60 | Volumetric, shape and microstructural alterations of the hippocampal subfields in healthy aging. <i>Alzheimers and Dementia</i> , 2020 , 16, e039589 | 1.2 | 0 |
| 59 | Lifetime brain structural trajectories in TAUPS2APP mouse model of Alzheimer's disease. <i>Alzheimers and Dementia</i> , 2020 , 16, e045523 | 1.2 | |
| 58 | An MRI-Derived Neuroanatomical Atlas of the Fischer 344 Rat Brain. <i>Scientific Reports</i> , 2020 , 10, 6952 | 4.9 | 10 |
| 57 | Amyloid-beta modulates the association between neurofilament light chain and brain atrophy in Alzheimer's disease. <i>Molecular Psychiatry</i> , 2020 , | 15.1 | 8 |
| 56 | Greater cortical thickness in individuals with ASD. <i>Molecular Psychiatry</i> , 2020 , 25, 507-508 | 15.1 | 1 |
| 55 | Investigating microstructural variation in the human hippocampus using non-negative matrix factorization. <i>NeuroImage</i> , 2020 , 207, 116348 | 7.9 | 11 |
| 54 | Spatial Patterning of Tissue Volume Loss in Schizophrenia Reflects Brain Network Architecture. <i>Biological Psychiatry</i> , 2020 , 87, 727-735 | 7.9 | 28 |
| 53 | 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 | 10.2 | 4 |
| 52 | 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 | 3.4 | 8 |
| 51 | Latent Clinical-Anatomical Dimensions of Schizophrenia. <i>Schizophrenia Bulletin</i> , 2020 , 46, 1426-1438 | 1.3 | 8 |
| 50 | 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 | 5.3 | 4 |
| 49 | Refractoriness of aggressive behaviour to pharmacological treatment: cortical thickness analysis in autism spectrum disorder. <i>BJPsych Open</i> , 2020 , 6, e85 | 5 | 5 |
| 48 | The ratio of posterior-anterior medial temporal lobe volumes predicts source memory performance in healthy young adults. <i>Hippocampus</i> , 2020 , 30, 1209-1227 | 3.5 | 4 |

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|----|---|------|----|
| 47 | 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 | 15.1 | 64 |
| 46 | Identifying schizophrenia subgroups using clustering and supervised learning. <i>Schizophrenia Research</i> , 2019 , 214, 51-59 | 3.6 | 16 |
| 45 | Role of D3 dopamine receptors in modulating neuroanatomical changes in response to antipsychotic administration. <i>Scientific Reports</i> , 2019 , 9, 7850 | 4.9 | 11 |
| 44 | 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 | 3.7 | 6 |
| 43 | 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 | 7.9 | 16 |
| 42 | 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 | 5.9 | 27 |
| 41 | Tractography-based targeting of the ventral intermediate nucleus: accuracy and clinical utility in MRgFUS thalamotomy. <i>Journal of Neurosurgery</i> , 2019 , 1-8 | 3.2 | 16 |
| 40 | Thalami shape differences in elderly depressed suicide attempters. <i>European Neuropsychopharmacology</i> , 2019 , 29, S54-S55 | 1.2 | |
| 39 | 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 | 5.3 | 27 |
| 38 | Epitaxial thin film transfer for flexible devices from reusable substrates. <i>Materials Research Express</i> , 2019 , 6, 025913 | 1.7 | 3 |
| 37 | 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 | 3.6 | 29 |
| 36 | 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 | 7.9 | 19 |
| 35 | Regional brain volume changes following chronic antipsychotic administration are mediated by the dopamine D2 receptor. <i>NeuroImage</i> , 2018 , 176, 226-238 | 7.9 | 20 |
| 34 | 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 | 7.9 | 35 |
| 33 | Evaluating accuracy of striatal, pallidal, and thalamic segmentation methods: Comparing automated approaches to manual delineation. <i>NeuroImage</i> , 2018 , 170, 182-198 | 7.9 | 50 |
| 32 | 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 | 4 | 28 |
| 31 | 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 | 4 | 17 |
| 30 | 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 | 5.9 | 24 |

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|----|--|------|-----|
| 29 | Deformation-based Morphometry MRI Reveals Brain Structural Modifications in Living Mu Opioid Receptor Knockout Mice. <i>Frontiers in Psychiatry</i> , 2018 , 9, 643 | 5 | 2 |
| 28 | 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 | 9.9 | 3 |
| 27 | Focused ultrasound thalamotomy location determines clinical benefits in patients with essential tremor. <i>Brain</i> , 2018 , 141, 3405-3414 | 11.2 | 84 |
| 26 | A 3D MRI-based atlas of a lizard brain. <i>Journal of Comparative Neurology</i> , 2018 , 526, 2511-2547 | 3.4 | 17 |
| 25 | Warping an atlas derived from serial histology to 5 high-resolution MRIs. <i>Scientific Data</i> , 2018 , 5, 1801078.2 | | 18 |
| 24 | Advanced processing and simulation of MRS data using the FID appliance (FID-A)-An open source, MATLAB-based toolkit. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 23-33 | 4.4 | 131 |
| 23 | 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 | 8.6 | 28 |
| 22 | Cerebellar anatomical alterations and attention to eyes in autism. <i>Scientific Reports</i> , 2017 , 7, 12008 | 4.9 | 23 |
| 21 | Neuroanatomical and Symptomatic Sex Differences in Individuals at Clinical High Risk for Psychosis. <i>Frontiers in Psychiatry</i> , 2017 , 8, 291 | 5 | 8 |
| 20 | BIDS apps: Improving ease of use, accessibility, and reproducibility of neuroimaging data analysis methods. <i>PLoS Computational Biology</i> , 2017 , 13, e1005209 | 5 | 129 |
| 19 | Heritability of hippocampal subfield volumes using a twin and non-twin siblings design. <i>Human Brain Mapping</i> , 2017 , 38, 4337-4352 | 5.9 | 17 |
| 18 | Optical characterization of epitaxial single crystal CdTe thin films on Al ₂ O ₃ (0001) substrates. <i>Thin Solid Films</i> , 2014 , 570, 155-158 | 2.2 | 6 |
| 17 | Purified water etching of native oxides on heteroepitaxial CdTe thin films. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 495304 | 3 | 1 |
| 16 | Tilted epitaxy on (211)-oriented substrates. <i>Applied Physics Letters</i> , 2013 , 102, 132103 | 3.4 | 9 |
| 15 | Optimum reactive ion etching of x-cut quartz using SF ₆ and Ar. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 117002 | 2 | 10 |
| 14 | Photovoltaic properties of M-phthalocyanine/fullerene organic solar cells. <i>Solar Energy</i> , 2012 , 86, 1683-1688 | | 53 |
| 13 | Manipulating the size distribution of supported gold nanostructures. <i>Applied Physics Letters</i> , 2012 , 100, 013111 | 3.4 | 18 |
| 12 | The role of vicinal silicon surfaces in the formation of epitaxial twins during the growth of III-V thin films. <i>Journal of Applied Physics</i> , 2011 , 110, 124316 | 2.5 | 19 |

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| 11 | Atypical grain growth for (2 1 1) CdTe films deposited on surface reconstructed (1 0 0) SrTiO ₃ substrates. <i>Applied Surface Science</i> , 2009 , 255, 5674-5681 | 6.7 | 15 |
| 10 | Epitaxially driven formation of intricate supported gold nanostructures on a lattice-matched oxide substrate. <i>Nano Letters</i> , 2009 , 9, 4258-63 | 11.5 | 19 |
| 9 | The role of substrate surface alteration in the fabrication of vertically aligned CdTe nanowires. <i>Nanotechnology</i> , 2008 , 19, 185601 | 3.4 | 25 |
| 8 | Understanding the impact of preprocessing pipelines on neuroimaging cortical surface analyses | | 2 |
| 7 | Longitudinal Quantification of Metabolites and Macromolecules Reveals Age- and Sex-Related Changes in the Healthy Fischer 344 Rat Brain | | 1 |
| 6 | Examining the boundary sharpness coefficient as an index of cortical microstructure and its relationship to age and sex in autism spectrum disorder | | 1 |
| 5 | Early or late gestational exposure to maternal immune activation alters neurodevelopmental trajectories in mice: an integrated neuroimaging, behavioural, and transcriptional study | | 1 |
| 4 | Spatial patterning of tissue volume loss in schizophrenia reflects brain network architecture | | 2 |
| 3 | BIDS Apps: Improving ease of use, accessibility, and reproducibility of neuroimaging data analysis methods | | 3 |
| 2 | Involvement of the habenula in the pathophysiology of autism spectrum disorder | | 1 |
| 1 | Differential effects of early or late exposure to prenatal maternal immune activation on mouse embryonic neurodevelopment | | 1 |