

Gavin P Winston

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

3,415
citations

136950

32
h-index

161849

54
g-index

87
all docs

87
docs citations

87
times ranked

4538
citing authors

#	ARTICLE	IF	CITATIONS
1	Copper deficiency myelopathy. <i>Journal of Neurology</i> , 2010, 257, 869-881.	3.6	377
2	Global image registration using a symmetric block-matching approach. <i>Journal of Medical Imaging</i> , 2014, 1, 024003.	1.5	245
3	Brain imaging in the assessment for epilepsy surgery. <i>Lancet Neurology</i> , The, 2016, 15, 420-433.	10.2	239
4	Advanced diffusion imaging sequences could aid assessing patients with focal cortical dysplasia and epilepsy. <i>Epilepsy Research</i> , 2014, 108, 336-339.	1.6	129
5	The physical and biological basis of quantitative parameters derived from diffusion MRI. <i>Quantitative Imaging in Medicine and Surgery</i> , 2012, 2, 254-65.	2.0	125
6	A functional magnetic resonance imaging study mapping the episodic memory encoding network in temporal lobe epilepsy. <i>Brain</i> , 2013, 136, 1868-1888.	7.6	124
7	White matter abnormalities across different epilepsy syndromes in adults: an ENIGMA-Epilepsy study. <i>Brain</i> , 2020, 143, 2454-2473.	7.6	123
8	The impact of epilepsy surgery on the structural connectome and its relation to outcome. <i>NeuroImage: Clinical</i> , 2018, 18, 202-214.	2.7	109
9	Memory fMRI predicts verbal memory decline after anterior temporal lobe resection. <i>Neurology</i> , 2015, 84, 1512-1519.	1.1	88
10	Optic radiation tractography and vision in anterior temporal lobe resection. <i>Annals of Neurology</i> , 2012, 71, 334-341.	5.3	85
11	The value of repeat neuroimaging for epilepsy at a tertiary referral centre: 16 years of experience. <i>Epilepsy Research</i> , 2013, 105, 349-355.	1.6	73
12	Association of Piriform Cortex Resection With Surgical Outcomes in Patients With Temporal Lobe Epilepsy. <i>JAMA Neurology</i> , 2019, 76, 690.	9.0	69
13	Preventing visual field deficits from neurosurgery. <i>Neurology</i> , 2014, 83, 604-611.	1.1	67
14	Memory network plasticity after temporal lobe resection: a longitudinal functional imaging study. <i>Brain</i> , 2016, 139, 415-430.	7.6	62
15	Neural correlates of working memory in Temporal Lobe Epilepsy – An fMRI study. <i>NeuroImage</i> , 2012, 60, 1696-1703.	4.2	61
16	Automated hippocampal segmentation in patients with epilepsy: Available free online. <i>Epilepsia</i> , 2013, 54, 2166-2173.	5.1	59
17	Diffusion tensor imaging tractography to visualize the relationship of the optic radiation to epileptogenic lesions prior to neurosurgery. <i>Epilepsia</i> , 2011, 52, 1430-1438.	5.1	58
18	Abnormal hippocampal structure and function in juvenile myoclonic epilepsy and unaffected siblings. <i>Brain</i> , 2019, 142, 2670-2687.	7.6	54

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19	Cerebellar, limbic, and midbrain volume alterations in sudden unexpected death in epilepsy. <i>Epilepsia</i> , 2019, 60, 718-729.	5.1	54
20	Thalamus and focal to bilateral seizures. <i>Neurology</i> , 2020, 95, e2427-e2441.	1.1	54
21	Disrupted segregation of working memory networks in temporal lobe epilepsy. <i>NeuroImage: Clinical</i> , 2013, 2, 273-281.	2.7	52
22	Structural correlates of impaired working memory in hippocampal sclerosis. <i>Epilepsia</i> , 2013, 54, 1143-1153.	5.1	50
23	Utility of 3D multimodality imaging in the implantation of intracranial electrodes in epilepsy. <i>Epilepsia</i> , 2015, 56, 403-413.	5.1	50
24	Structural Brain Network Abnormalities and the Probability of Seizure Recurrence After Epilepsy Surgery. <i>Neurology</i> , 2021, 96, e758-e771.	1.1	49
25	Automated T2 relaxometry of the hippocampus for temporal lobe epilepsy. <i>Epilepsia</i> , 2017, 58, 1645-1652.	5.1	43
26	Epilepsy surgery, vision, and driving: What has surgery taught us and could modern imaging reduce the risk of visual deficits?. <i>Epilepsia</i> , 2013, 54, 1877-1888.	5.1	42
27	Focal to bilateral tonic-clonic seizures are associated with widespread network abnormality in temporal lobe epilepsy. <i>Epilepsia</i> , 2021, 62, 729-741.	5.1	42
28	Accurate Localization of Optic Radiation During Neurosurgery in an Interventional MRI Suite. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 882-891.	8.9	40
29	Factors affecting reorganisation of memory encoding networks in temporal lobe epilepsy. <i>Epilepsy Research</i> , 2015, 110, 1-9.	1.6	40
30	Diffusion tensor imaging tractography of the optic radiation for epilepsy surgical planning: A comparison of two methods. <i>Epilepsy Research</i> , 2011, 97, 124-132.	1.6	38
31	Progressive white matter changes following anterior temporal lobe resection for epilepsy. <i>NeuroImage: Clinical</i> , 2014, 4, 190-200.	2.7	37
32	Copper deficiency myelopathy and subacute combined degeneration of the cord – Why is the phenotype so similar?. <i>Medical Hypotheses</i> , 2008, 71, 229-236.	1.5	36
33	Voxel-based magnetic resonance image postprocessing in epilepsy. <i>Epilepsia</i> , 2017, 58, 1653-1664.	5.1	36
34	Working memory network plasticity after anterior temporal lobe resection: a longitudinal functional magnetic resonance imaging study. <i>Brain</i> , 2014, 137, 1439-1453.	7.6	33
35	Computer-assisted planning for the insertion of stereoelectroencephalography electrodes for the investigation of drug-resistant focal epilepsy: an external validation study. <i>Journal of Neurosurgery</i> , 2018, , 1-10.	1.6	33
36	Effects of carbamazepine and lamotrigine on functional magnetic resonance imaging cognitive networks. <i>Epilepsia</i> , 2018, 59, 1362-1371.	5.1	30

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37	Microstructural imaging in temporal lobe epilepsy: Diffusion imaging changes relate to reduced neurite density. <i>NeuroImage: Clinical</i> , 2020, 26, 102231.	2.7	30
38	The potential role of novel diffusion imaging techniques in the understanding and treatment of epilepsy. <i>Quantitative Imaging in Medicine and Surgery</i> , 2015, 5, 279-87.	2.0	29
39	Western driving regulations for unprovoked first seizures and epilepsy. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2012, 21, 371-376.	2.0	27
40	Hippocampal profiling: Localized magnetic resonance imaging volumetry and T2 relaxometry for hippocampal sclerosis. <i>Epilepsia</i> , 2020, 61, 297-309.	5.1	26
41	Temporal lobe epilepsy and affective disorders: the role of the subgenual anterior cingulate cortex. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2015, 86, 144-151.	1.9	25
42	Periictal hypoxia is related to extent of regional brain volume loss accompanying generalized tonic-clonic seizures. <i>Epilepsia</i> , 2020, 61, 1570-1580.	5.1	25
43	Hippocampal Shape Is Associated with Memory Deficits in Temporal Lobe Epilepsy. <i>Annals of Neurology</i> , 2020, 88, 170-182.	5.3	23
44	Disorganization of language and working memory systems in frontal versus temporal lobe epilepsy. <i>Brain</i> , 2023, 146, 935-953.	7.6	22
45	Susceptibility artefact correction using dynamic graph cuts: Application to neurosurgery. <i>Medical Image Analysis</i> , 2014, 18, 1132-1142.	11.6	19
46	Automated fiber tract reconstruction for surgery planning: Extensive validation in language-related white matter tracts. <i>NeuroImage: Clinical</i> , 2019, 23, 101883.	2.7	19
47	Network reorganisation following anterior temporal lobe resection and relation with post-surgery seizure relapse: A longitudinal study. <i>NeuroImage: Clinical</i> , 2020, 27, 102320.	2.7	19
48	Multivariate white matter alterations are associated with epilepsy duration. <i>European Journal of Neuroscience</i> , 2021, 53, 2788-2803.	2.6	18
49	Focus on China: should clinicians engage in research? and lessons from other countries. <i>Quantitative Imaging in Medicine and Surgery</i> , 2014, 4, 413-25.	2.0	18
50	Motor hyperactivation during cognitive tasks: An endophenotype of juvenile myoclonic epilepsy. <i>Epilepsia</i> , 2020, 61, 1438-1452.	5.1	17
51	Decoupling of functional and structural language networks in temporal lobe epilepsy. <i>Epilepsia</i> , 2021, 62, 2941-2954.	5.1	15
52	Episodic memory network connectivity in temporal lobe epilepsy. <i>Epilepsia</i> , 2022, 63, 2597-2622.	5.1	15
53	Learning to see the invisible: A data-driven approach to finding the underlying patterns of abnormality in visually normal brain magnetic resonance images in patients with temporal lobe epilepsy. <i>Epilepsia</i> , 2019, 60, 2499-2507.	5.1	14
54	Copper deficiency: an unusual case of myelopathy with neuropathy. <i>Annals of Clinical Biochemistry</i> , 2008, 45, 616-617.	1.6	12

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55	Independent components of human brain morphology. <i>NeuroImage</i> , 2021, 226, 117546.	4.2	12
56	Clinical evaluation of automated quantitative MRI reports for assessment of hippocampal sclerosis. <i>European Radiology</i> , 2021, 31, 34-44.	4.5	11
57	Event-based modeling in temporal lobe epilepsy demonstrates progressive atrophy from cross-sectional data. <i>Epilepsia</i> , 2022, 63, 2081-2095.	5.1	11
58	Detection of covert lesions in focal epilepsy using computational analysis of multimodal magnetic resonance imaging data. <i>Epilepsia</i> , 2021, 62, 807-816.	5.1	9
59	Virtual epilepsy clinics – A Canadian Comprehensive Epilepsy Center experience pre-COVID and during the COVID-19 pandemic period. <i>Epilepsy Research</i> , 2021, 176, 106689.	1.6	9
60	Evaluation of prospective motion correction of high-resolution 3D-T2-FLAIR acquisitions in epilepsy patients. <i>Journal of Neuroradiology</i> , 2018, 45, 368-373.	1.1	7
61	Assessing various sensorimotor and cognitive functions in people with epilepsy is feasible with robotics. <i>Epilepsy and Behavior</i> , 2020, 103, 106859.	1.7	7
62	Microstructural Investigations of the Visual Pathways in Pediatric Epilepsy Neurosurgery: Insights From Multi-Shell Diffusion Magnetic Resonance Imaging. <i>Frontiers in Neuroscience</i> , 2020, 14, 269.	2.8	6
63	Relative income of clinical faculty members vs. science faculty members in university settings-a short survey of France, Hong Kong, India, Japan, South Korea, The Netherlands, Taiwan, UK, and USA. <i>Quantitative Imaging in Medicine and Surgery</i> , 2014, 4, 500-1.	2.0	6
64	The role of magnetic resonance imaging techniques in the diagnosis, surgical treatment and biological understanding of epilepsy. <i>Quantitative Imaging in Medicine and Surgery</i> , 2015, 5, 186-7.	2.0	5
65	Volumetric and structural connectivity abnormalities co-localise in TLE. <i>NeuroImage: Clinical</i> , 2022, 35, 103105.	2.7	5
66	Subacute Combined Degeneration Due to Copper Deficiency. <i>Journal of Neuroimaging</i> , 2008, 18, 345-345.	2.0	4
67	Simulated field maps for susceptibility artefact correction in interventional MRI. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 1405-1416.	2.8	4
68	Improved Neuronavigation through Integration of Intraoperative Anatomical and Diffusion Images in an Interventional MRI Suite. <i>Lecture Notes in Computer Science</i> , 2011, , 168-178.	1.3	4
69	Intraoperative overlay of optic radiation tractography during anteromesial temporal resection: a prospective validation study. <i>Journal of Neurosurgery</i> , 2022, 136, 543-552.	1.6	4
70	Different receptors use inositol trisphosphate to mobilize Ca ²⁺ from different intracellular pools. <i>Biochemical Journal</i> , 2000, 351, 683.	3.7	3
71	Non-parametric combination of multimodal MRI for lesion detection in focal epilepsy. <i>NeuroImage: Clinical</i> , 2021, 32, 102837.	2.7	3
72	Integrating structural and diffusion MR information for optic radiation localisation in focal epilepsy patients. , 2011, , .		2

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73	Geodesic Shape-Based Averaging. Lecture Notes in Computer Science, 2012, 15, 26-33.	1.3	2
74	Susceptibility artefact correction by combining B0 field maps and non-rigid registration using graph cuts. , 2013, , .		2
75	Validation of computational lesion detection methods in magnetic resonance imagingâ€“negative, focal epilepsy. Epilepsia, 2020, 61, 828-830.	5.1	2
76	Re: Contribution of spinal MRI for unsuspected cobalamin deficiency in isolated sub-acute combined degeneration. Eur J Intern Med 2008;19(2):143â€“145. European Journal of Internal Medicine, 2009, 20, e16.	2.2	1
77	Simulated Field Maps: Toward Improved Susceptibility Artefact Correction in Interventional MRI. Lecture Notes in Computer Science, 2014, , 226-235.	1.3	1
78	1648â€“...Could laterality of diffusion measures prove useful in determining the lateralisation of non-lesional temporal lobe epilepsy?. Journal of Neurology, Neurosurgery and Psychiatry, 2012, 83, e1.149-e1.	1.9	0
79	1218â€“...Frontal lobe activity during memory encoding in temporal lobe epilepsy. Journal of Neurology, Neurosurgery and Psychiatry, 2012, 83, e1.158-e1.	1.9	0
80	Subacute combined degeneration of the spinal cord despite prophylactic vitamin B12 treatment. Journal of Clinical Neuroscience, 2012, 19, 1607.	1.5	0
81	Denture fixative cream and the potential for neuropathy (dent update 2012; 39: 575â€“577). Dental Update, 2013, 40, 144-144.	0.2	0
82	Bilateral Weighted Adaptive Local Similarity Measure for Registration in Neurosurgery. Lecture Notes in Computer Science, 2016, , 81-88.	1.3	0
83	Diffusion Tensor Imaging. , 2020, , 203-213.		0