

# Simon Keller

## List of Publications by Year in descending order

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86  
papers

4,325  
citations

109321

35  
h-index

118850

62  
g-index

92  
all docs

92  
docs citations

92  
times ranked

5610  
citing authors

#	ARTICLE	IF	CITATIONS
1	Voxel-based morphometry of temporal lobe epilepsy: An introduction and review of the literature. <i>Epilepsia</i> , 2008, 49, 741-757.	5.1	369
2	Structural brain abnormalities in the common epilepsies assessed in a worldwide ENIGMA study. <i>Brain</i> , 2018, 141, 391-408.	7.6	352
3	Broca's area: Nomenclature, anatomy, typology and asymmetry. <i>Brain and Language</i> , 2009, 109, 29-48.	1.6	196
4	Voxel-Based Morphometric Comparison of Hippocampal and Extrahippocampal Abnormalities in Patients with Left and Right Hippocampal Atrophy. <i>NeuroImage</i> , 2002, 16, 23-31.	4.2	172
5	Voxel based morphometry of grey matter abnormalities in patients with medically intractable temporal lobe epilepsy: effects of side of seizure onset and epilepsy duration. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2002, 73, 648-655.	1.9	164
6	Voxel-based morphometry and stereology provide convergent evidence of the importance of medial prefrontal cortex for fluid intelligence in healthy adults. <i>NeuroImage</i> , 2005, 25, 1175-1186.	4.2	133
7	Evaluation of machine learning algorithms for treatment outcome prediction in patients with epilepsy based on structural connectome data. <i>NeuroImage</i> , 2015, 118, 219-230.	4.2	130
8	Nerve fiber impairment of anterior thalamocortical circuitry in juvenile myoclonic epilepsy. <i>Neurology</i> , 2008, 71, 1981-1985.	1.1	126
9	Comparison of standard and optimized voxel-based morphometry for analysis of brain changes associated with temporal lobe epilepsy. <i>NeuroImage</i> , 2004, 23, 860-868.	4.2	124
10	White matter abnormalities across different epilepsy syndromes in adults: an ENIGMA-Epilepsy study. <i>Brain</i> , 2020, 143, 2454-2473.	7.6	123
11	Thalamotemporal alteration and postoperative seizures in temporal lobe epilepsy. <i>Annals of Neurology</i> , 2015, 77, 760-774.	5.3	104
12	Quantitative MRI of the prefrontal cortex and executive function in patients with temporal lobe epilepsy. <i>Epilepsy and Behavior</i> , 2009, 15, 186-195.	1.7	99
13	Network-based atrophy modeling in the common epilepsies: A worldwide ENIGMA study. <i>Science Advances</i> , 2020, 6, .	10.3	97
14	Preoperative automated fibre quantification predicts postoperative seizure outcome in temporal lobe epilepsy. <i>Brain</i> , 2017, 140, 68-82.	7.6	96
15	Concomitant Fractional Anisotropy and Volumetric Abnormalities in Temporal Lobe Epilepsy: Cross-Sectional Evidence for Progressive Neurologic Injury. <i>PLoS ONE</i> , 2012, 7, e46791.	2.5	91
16	Sulcal variability, stereological measurement and asymmetry of Broca's area on MR images. <i>Journal of Anatomy</i> , 2007, 211, 534-555.	1.5	89
17	The long-term outcomes of epilepsy surgery. <i>PLoS ONE</i> , 2018, 13, e0196274.	2.5	86
18	A Comparative Magnetic Resonance Imaging Study of the Anatomy, Variability, and Asymmetry of Broca's Area in the Human and Chimpanzee Brain. <i>Journal of Neuroscience</i> , 2009, 29, 14607-14616.	3.6	80

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19	Predicting Surgery Targets in Temporal Lobe Epilepsy through Structural Connectome Based Simulations. <i>PLoS Computational Biology</i> , 2015, 11, e1004642.	3.2	80
20	Volume Estimation of the Thalamus Using Freesurfer and Stereology: Consistency between Methods. <i>Neuroinformatics</i> , 2012, 10, 341-350.	2.8	77
21	Microstructural and volumetric abnormalities of the putamen in juvenile myoclonic epilepsy. <i>Epilepsia</i> , 2011, 52, 1715-1724.	5.1	76
22	In vivo mapping of hippocampal subfields in mesial temporal lobe epilepsy: Relation to histopathology. <i>Human Brain Mapping</i> , 2014, 35, 4718-4728.	3.6	69
23	Temporal Lobe Epilepsy Surgical Outcomes Can Be Inferred Based on Structural Connectome Hubs: A Machine Learning Study. <i>Annals of Neurology</i> , 2020, 88, 970-983.	5.3	68
24	Can the Language-dominant Hemisphere Be Predicted by Brain Anatomy?. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 2013-2029.	2.3	61
25	Thalamotemporal impairment in temporal lobe epilepsy: A combined <scp>MRI</scp> analysis of structure, integrity, and connectivity. <i>Epilepsia</i> , 2014, 55, 306-315.	5.1	59
26	Morphometric <scp>MRI</scp> alterations and postoperative seizure control in refractory temporal lobe epilepsy. <i>Human Brain Mapping</i> , 2015, 36, 1637-1647.	3.6	58
27	Quantitative MRI in refractory temporal lobe epilepsy: relationship with surgical outcomes. <i>Quantitative Imaging in Medicine and Surgery</i> , 2015, 5, 204-24.	2.0	56
28	White Matter Connectivity of the Thalamus Delineates the Functional Architecture of Competing Thalamocortical Systems. <i>Cerebral Cortex</i> , 2015, 25, 4477-4489.	2.9	54
29	Persistent seizures following left temporal lobe surgery are associated with posterior and bilateral structural and functional brain abnormalities. <i>Epilepsy Research</i> , 2007, 74, 131-139.	1.6	53
30	Early microstructural white matter changes in patients with HIV: A diffusion tensor imaging study. <i>BMC Neurology</i> , 2012, 12, 23.	1.8	51
31	Effects of sex and age on regional prefrontal brain volume in two human cohorts. <i>European Journal of Neuroscience</i> , 2007, 25, 307-318.	2.6	48
32	The <scp>ENIGMAâ€Epilepsy</scp> working group: Mapping disease from large data sets. <i>Human Brain Mapping</i> , 2022, 43, 113-128.	3.6	47
33	Recognition of emotion with temporal lobe epilepsy and asymmetrical amygdala damage. <i>Epilepsy and Behavior</i> , 2006, 9, 164-172.	1.7	44
34	Measurement of brain volume using MRI: software, techniques, choices and prerequisites. <i>Journal of Anthropological Sciences</i> , 2009, 87, 127-51.	0.4	44
35	Executive performance is related to regional gray matter volume in healthy older individuals. <i>Human Brain Mapping</i> , 2013, 34, 3333-3346.	3.6	38
36	The Influence of Spatial Registration on Detection of Cerebral Asymmetries Using Voxel-Based Statistics of Fractional Anisotropy Images and TBSS. <i>PLoS ONE</i> , 2012, 7, e36851.	2.5	36

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37	Interictal structural and functional connectivity in idiopathic generalized epilepsy: A systematic review of graph theoretical studies. <i>Epilepsy and Behavior</i> , 2020, 106, 107013.	1.7	33
38	Voxel-Based Statistical Analysis of Fractional Anisotropy and Mean Diffusivity in Patients with Unilateral Temporal Lobe Epilepsy of Unknown Cause. <i>Journal of Neuroimaging</i> , 2013, 23, 352-359.	2.0	31
39	On brain atlas choice and automatic segmentation methods: a comparison of MAPER & FreeSurfer using three atlas databases. <i>Scientific Reports</i> , 2020, 10, 2837.	3.3	31
40	Degree of hippocampal atrophy is related to side of seizure onset in temporal lobe epilepsy. <i>American Journal of Neuroradiology</i> , 2006, 27, 1046-52.	2.4	31
41	Automated tractography in patients with temporal lobe epilepsy using TRActs Constrained by UnderLying Anatomy (TRACULA). <i>NeuroImage: Clinical</i> , 2017, 14, 67-76.	2.7	30
42	Crossed cerebral lateralization for verbal and visuo-spatial function in a pair of handedness discordant monozygotic twins: MRI and fMRI brain imaging. <i>Journal of Anatomy</i> , 2008, 212, 235-248.	1.5	29
43	Artificial intelligence for classification of temporal lobe epilepsy with ROI-level MRI data: A worldwide ENIGMA-Epilepsy study. <i>NeuroImage: Clinical</i> , 2021, 31, 102765.	2.7	25
44	Variability and asymmetry of the sulcal contours defining Broca's area homologue in the chimpanzee brain. <i>Journal of Comparative Neurology</i> , 2012, 520, 1165-1180.	1.6	24
45	Epilepsy-related cytoarchitectonic abnormalities along white matter pathways. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, 930-936.	1.9	24
46	A systems-level analysis highlights microglial activation as a modifying factor in common epilepsies. <i>Neuropathology and Applied Neurobiology</i> , 2022, 48, .	3.2	22
47	Excessive Daytime Sleepiness Is a Common Symptom in Fabry Disease. <i>Case Reports in Neurology</i> , 2009, 1, 33-40.	0.7	21
48	The role of the corpus callosum in seizure spread: MRI lesion mapping in oligodendrogliomas. <i>Epilepsy Research</i> , 2015, 109, 126-133.	1.6	21
49	Probabilistic mapping of thalamic nuclei and thalamocortical functional connectivity in idiopathic generalised epilepsy. <i>Human Brain Mapping</i> , 2021, 42, 5648-5664.	3.6	20
50	Confidence intervals for the volume of brain structures in Cavalieri sampling with local errors. <i>Journal of Neuroscience Methods</i> , 2009, 179, 71-77.	2.5	19
51	Individual white matter fractional anisotropy analysis on patients with MRI negative partial epilepsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2010, 81, 136-139.	1.9	18
52	Concordance between the Wada test and neuroimaging lateralization: Influence of imaging modality (fMRI and MEG) and patient experience. <i>Epilepsy and Behavior</i> , 2018, 78, 155-160.	1.7	18
53	Topographic divergence of atypical cortical asymmetry and atrophy patterns in temporal lobe epilepsy. <i>Brain</i> , 2022, 145, 1285-1298.	7.6	18
54	Hippocampal subfield segmentation in temporal lobe epilepsy: Relation to outcomes. <i>Acta Neurologica Scandinavica</i> , 2018, 137, 598-608.	2.1	17

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55	Restingâ€state functional brain networks in adults with a new diagnosis of focal epilepsy. <i>Brain and Behavior</i> , 2019, 9, e01168.	2.2	17
56	Comparison of manual and automated fiber quantification tractography in patients with temporal lobe epilepsy. <i>NeuroImage: Clinical</i> , 2019, 24, 102024.	2.7	16
57	Altered structural connectome in non-lesional newly diagnosed focal epilepsy: Relation to pharmacoresistance. <i>NeuroImage: Clinical</i> , 2021, 29, 102564.	2.7	15
58	A voxelâ€based asymmetry study of the relationship between hemispheric asymmetry and language dominance in Wada tested patients. <i>Human Brain Mapping</i> , 2018, 39, 3032-3045.	3.6	14
59	Progression of microstructural putamen alterations in a case of symptomatic recurrent seizures using diffusion tensor imaging. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2012, 21, 478-481.	2.0	12
60	Functional network topology in drug resistant and well-controlled idiopathic generalized epilepsy: a resting state functional MRI study. <i>Brain Communications</i> , 2021, 3, fcab196.	3.3	12
61	Fiber ball white matter modeling in focal epilepsy. <i>Human Brain Mapping</i> , 2021, 42, 2490-2507.	3.6	12
62	Protocol for DexEnceph: a randomised controlled trial of dexamethasone therapy in adults with herpes simplex virus encephalitis. <i>BMJ Open</i> , 2021, 11, e041808.	1.9	12
63	Altered Structural Brain Networks in Refractory and Nonrefractory Idiopathic Generalized Epilepsy. <i>Brain Connectivity</i> , 2022, 12, 549-560.	1.7	12
64	Eventâ€based modeling in temporal lobe epilepsy demonstrates progressive atrophy from crossâ€sectional data. <i>Epilepsia</i> , 2022, 63, 2081-2095.	5.1	11
65	Diffusion tensor imaging in a case of Kearnsâ€™Sayre syndrome: Striking brainstem involvement as a possible cause of oculomotor symptoms. <i>Journal of the Neurological Sciences</i> , 2009, 281, 110-112.	0.6	9
66	Hippocampal internal architecture and postoperative seizure outcome in temporal lobe epilepsy due to hippocampal sclerosis. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2016, 35, 65-71.	2.0	9
67	Thalamohippocampal atrophy in focal epilepsy of unknown cause at the time of diagnosis. <i>European Journal of Neurology</i> , 2021, 28, 367-376.	3.3	9
68	Association of Epilepsy Surgery With Changes in Imaging-Defined Brain Age. <i>Neurology</i> , 2021, 97, e554-e563.	1.1	9
69	Association Between Anatomical Location of Surgically Induced Lesions and Postoperative Seizure Outcome in Temporal Lobe Epilepsy. <i>Neurology</i> , 2022, 98, .	1.1	9
70	Neuroradiological findings in patients with â€non-lesionalâ€ focal epilepsy revealed by research protocol. <i>Clinical Radiology</i> , 2019, 74, 78.e1-78.e11.	1.1	8
71	Neuroimaging and thalamic connectomics in epilepsy neuromodulation. <i>Epilepsy Research</i> , 2022, 182, 106916.	1.6	7
72	Radiological identification of temporal lobe epilepsy using artificial intelligence: a feasibility study. <i>Brain Communications</i> , 2022, 4, fcab284.	3.3	7

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73	Investigating imaging network markers of cognitive dysfunction and pharmacoresistance in newly diagnosed epilepsy: a protocol for an observational cohort study in the UK. <i>BMJ Open</i> , 2019, 9, e034347.	1.9	6
74	A Feasibility Study of Quantifying Longitudinal Brain Changes in Herpes Simplex Virus (HSV) Encephalitis Using Magnetic Resonance Imaging (MRI) and Stereology. <i>PLoS ONE</i> , 2017, 12, e0170215.	2.5	5
75	High b-value diffusion tractography: Abnormal axonal network organization associated with medication-refractory epilepsy. <i>NeuroImage</i> , 2022, 248, 118866.	4.2	4
76	Surface-based method to evaluate global brain shape asymmetries in human and chimpanzee brains. , 2011, , .		3
77	Cortical disconnection in temporal lobe epilepsy. <i>Epilepsy and Behavior</i> , 2021, 123, 108231.	1.7	2
78	Presurgical entorhinal cortex volume and postoperative seizure outcome in temporal lobe epilepsy. <i>Lancet, The</i> , 2015, 385, S34.	13.7	1
79	Brain atrophy in seizure-free temporal lobe epilepsy: Implications for predicting pharmacoresistance. <i>Epilepsia</i> , 2016, 57, 855-856.	5.1	1
80	THE BBB IN ENCEPHALITIS: INFLAMMATION & A ROLE FOR STEROIDS?. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2014, 85, e4.29-e4.	1.9	0
81	HIPPOCAMPAL INTERNAL ARCHITECTURE AND POSTOPERATIVE OUTCOME IN TEMPORAL LOBE EPILEPSY. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2015, 86, e4.147-e4.	1.9	0
82	PO050...Subcortical mri volumes in patients with newly diagnosed epilepsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2017, 88, A25.1-A25.	1.9	0
83	1724...Mri-analysis in patients with "non-lesional"™ epilepsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2017, 88, A5.1-A5.	1.9	0
84	PO047...Diffusion abnormalities in non-lesional temporal lobe epilepsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2017, 88, A24.2-A24.	1.9	0
85	Automated subcortical volume estimation from 2D MRI in epilepsy and implications for clinical trials. <i>Neuroradiology</i> , 2021, , 1.	2.2	0
86	Fingerprinting seizure outcome after temporal lobe surgery using preoperative connectomic mapping. <i>Brain Communications</i> , 0, , .	3.3	0