Simon Keller

List of Publications by Year
in descending order

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	The <scp>ENIGMAâ€Epilepsy</scp> working group: Mapping disease from large data sets. Human Brain Mapping, 2022, 43, 113-128.	3.6	47
2	A systemsâ€level analysis highlights microglial activation as a modifying factor in common epilepsies. Neuropathology and Applied Neurobiology, 2022, 48, .	3.2	22
3	Altered Structural Brain Networks in Refractory and Nonrefractory Idiopathic Generalized Epilepsy. Brain Connectivity, 2022, 12, 549-560.	1.7	12
4	Association Between Anatomical Location of Surgically Induced Lesions and Postoperative Seizure Outcome in Temporal Lobe Epilepsy. Neurology, 2022, 98, .	1.1	9
5	Topographic divergence of atypical cortical asymmetry and atrophy patterns in temporal lobe epilepsy. Brain, 2022, 145, 1285-1298.	7.6	18
6	High b-value diffusion tractography: Abnormal axonal network organization associated with medication-refractory epilepsy. NeuroImage, 2022, 248, 118866.	4.2	4
7	Neuroimaging and thalamic connectomics in epilepsy neuromodulation. Epilepsy Research, 2022, 182, 106916.	1.6	7
8	Radiological identification of temporal lobe epilepsy using artificial intelligence: a feasibility study. Brain Communications, 2022, 4, fcab284.	3.3	7
9	Eventâ€based modeling in temporal lobe epilepsy demonstrates progressive atrophy from crossâ€sectional data. Epilepsia, 2022, 63, 2081-2095.	5.1	11
10	Thalamohippocampal atrophy in focal epilepsy of unknown cause at the time of diagnosis. European Journal of Neurology, 2021, 28, 367-376.	3.3	9
11	Functional network topology in drug resistant and well-controlled idiopathic generalized epilepsy: a resting state functional MRI study. Brain Communications, 2021, 3, fcab196.	3.3	12
12	Artificial intelligence for classification of temporal lobe epilepsy with ROI-level MRI data: A worldwide ENIGMA-Epilepsy study. NeuroImage: Clinical, 2021, 31, 102765.	2.7	25
13	Altered structural connectome in non-lesional newly diagnosed focal epilepsy: Relation to pharmacoresistance. NeuroImage: Clinical, 2021, 29, 102564.	2.7	15
14	Fiber ball white matter modeling in focal epilepsy. Human Brain Mapping, 2021, 42, 2490-2507.	3.6	12
15	Association of Epilepsy Surgery With Changes in Imaging-Defined Brain Age. Neurology, 2021, 97, e554-e563.	1.1	9
16	Protocol for DexEnceph: a randomised controlled trial of dexamethasone therapy in adults with herpes simplex virus encephalitis. BMJ Open, 2021, 11, e041808.	1.9	12
17	Probabilistic mapping of thalamic nuclei and thalamocortical functional connectivity in idiopathic generalised epilepsy. Human Brain Mapping, 2021, 42, 5648-5664.	3.6	20
18	Cortical disconnection in temporal lobe epilepsy. Epilepsy and Behavior, 2021, 123, 108231.	1.7	2

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19	Automated subcortical volume estimation from 2D MRI in epilepsy and implications for clinical trials. Neuroradiology, 2021, , 1.	2.2	0
20	Network-based atrophy modeling in the common epilepsies: A worldwide ENIGMA study. Science Advances, 2020, 6, .	10.3	97
21	White matter abnormalities across different epilepsy syndromes in adults: an ENIGMA-Epilepsy study. Brain, 2020, 143, 2454-2473.	7.6	123
22	Temporal Lobe Epilepsy Surgical Outcomes Can Be Inferred Based on Structural Connectome Hubs: A Machine Learning Study. Annals of Neurology, 2020, 88, 970-983.	5.3	68
23	Interictal structural and functional connectivity in idiopathic generalized epilepsy: A systematic review of graph theoretical studies. Epilepsy and Behavior, 2020, 106, 107013.	1.7	33
24	On brain atlas choice and automatic segmentation methods: a comparison of MAPER & FreeSurfer using three atlas databases. Scientific Reports, 2020, 10, 2837.	3.3	31
25	Comparison of manual and automated fiber quantification tractography in patients with temporal lobe epilepsy. NeuroImage: Clinical, 2019, 24, 102024.	2.7	16
26	Investigating imaging network markers of cognitive dysfunction and pharmacoresistance in newly diagnosed epilepsy: a protocol for an observational cohort study in the UK. BMJ Open, 2019, 9, e034347.	1.9	6
27	Restingâ€state functional brain networks in adults with a new diagnosis of focal epilepsy. Brain and Behavior, 2019, 9, e01168.	2.2	17
28	Neuroradiological findings in patients with â€œnon-lesionalâ€•focal epilepsy revealed by research protocol. Clinical Radiology, 2019, 74, 78.e1-78.e11.	1.1	8
29	A voxelâ€based asymmetry study of the relationship between hemispheric asymmetry and language dominance in Wada tested patients. Human Brain Mapping, 2018, 39, 3032-3045.	3.6	14
30	Hippocampal subfield segmentation in temporal lobe epilepsy: Relation to outcomes. Acta Neurologica Scandinavica, 2018, 137, 598-608.	2.1	17
31	Structural brain abnormalities in the common epilepsies assessed in a worldwide ENIGMA study. Brain, 2018, 141, 391-408.	7.6	352
32	Concordance between the Wada test and neuroimaging lateralization: Influence of imaging modality (fMRI and MEG) and patient experience. Epilepsy and Behavior, 2018, 78, 155-160.	1.7	18
33	The long-term outcomes of epilepsy surgery. PLoS ONE, 2018, 13, e0196274.	2.5	86
34	Automated tractography in patients with temporal lobe epilepsy using TRActs Constrained by UnderLying Anatomy (TRACULA). NeuroImage: Clinical, 2017, 14, 67-76.	2.7	30
35	Preoperative automated fibre quantification predicts postoperative seizure outcome in temporal lobe epilepsy. Brain, 2017, 140, 68-82.	7.6	96
36	PO050â€…Subcortical mri volumes in patients with newly diagnosed epilepsy. Journal of Neurology, Neurosurgery and Psychiatry, 2017, 88, A25.1-A25.	1.9	0

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37	1724â€…Mri-analysis in patients with â€˜non-lesionalâ€™ epilepsy. Journal of Neurology, Neurosurgery and Psychiatry, 2017, 88, A5.1-A5.	1.9	0
38	PO047â€…Diffusion abnormalities in non-lesional temporal lobe epilepsy. Journal of Neurology, Neurosurgery and Psychiatry, 2017, 88, A24.2-A24.	1.9	0
39	A Feasibility Study of Quantifying Longitudinal Brain Changes in Herpes Simplex Virus (HSV) Encephalitis Using Magnetic Resonance Imaging (MRI) and Stereology. PLoS ONE, 2017, 12, e0170215.	2.5	5
40	Brain atrophy in seizureâ€free temporal lobe epilepsy: Implications for predicting pharmacoresistance. Epilepsia, 2016, 57, 855-856.	5.1	1
41	Epilepsy-related cytoarchitectonic abnormalities along white matter pathways. Journal of Neurology, Neurosurgery and Psychiatry, 2016, 87, 930-936.	1.9	24
42	Hippocampal internal architecture and postoperative seizure outcome in temporal lobe epilepsy due to hippocampal sclerosis. Seizure: the Journal of the British Epilepsy Association, 2016, 35, 65-71.	2.0	9
43	Predicting Surgery Targets in Temporal Lobe Epilepsy through Structural Connectome Based Simulations. PLoS Computational Biology, 2015, 11, e1004642.	3.2	80
44	White Matter Connectivity of the Thalamus Delineates the Functional Architecture of Competing Thalamocortical Systems. Cerebral Cortex, 2015, 25, 4477-4489.	2.9	54
45	Evaluation of machine learning algorithms for treatment outcome prediction in patients with epilepsy based on structural connectome data. NeuroImage, 2015, 118, 219-230.	4.2	130
46	The role of the corpus callosum in seizure spread: MRI lesion mapping in oligodendrogliomas. Epilepsy Research, 2015, 109, 126-133.	1.6	21
47	Morphometric <scp>MRI</scp> alterations and postoperative seizure control in refractory temporal lobe epilepsy. Human Brain Mapping, 2015, 36, 1637-1647.	3.6	58
48	Thalamotemporal alteration and postoperative seizures in temporal lobe epilepsy. Annals of Neurology, 2015, 77, 760-774.	5.3	104
49	Presurgical entorhinal cortex volume and postoperative seizure outcome in temporal lobe epilepsy. Lancet, The, 2015, 385, S34.	13.7	1
50	HIPPOCAMPAL INTERNAL ARCHITECTURE AND POSTOPERATIVE OUTCOME IN TEMPORAL LOBE EPILEPSY. Journal of Neurology, Neurosurgery and Psychiatry, 2015, 86, e4.147-e4.	1.9	0
51	Quantitative MRI in refractory temporal lobe epilepsy: relationship with surgical outcomes. Quantitative Imaging in Medicine and Surgery, 2015, 5, 204-24.	2.0	56
52	Thalamotemporal impairment in temporal lobe epilepsy: A combined <scp>MRI</scp> analysis of structure, integrity, and connectivity. Epilepsia, 2014, 55, 306-315.	5.1	59
53	In vivo mapping of hippocampal subfields in mesial temporal lobe epilepsy: Relation to histopathology. Human Brain Mapping, 2014, 35, 4718-4728.	3.6	69
54	THE BBB IN ENCEPHALITIS: INFLAMMATION & A ROLE FOR STEROIDS?. Journal of Neurology, Neurosurgery and Psychiatry, 2014, 85, e4.29-e4.	1.9	0

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55	Executive performance is related to regional gray matter volume in healthy older individuals. Human Brain Mapping, 2013, 34, 3333-3346.	3.6	38
56	Voxelâ€Based Statistical Analysis of Fractional Anisotropy and Mean Diffusivity in Patients with Unilateral Temporal Lobe Epilepsy of Unknown Cause. Journal of Neuroimaging, 2013, 23, 352-359.	2.0	31
57	Progression of microstructural putamen alterations in a case of symptomatic recurrent seizures using diffusion tensor imaging. Seizure: the Journal of the British Epilepsy Association, 2012, 21, 478-481.	2.0	12
58	Early microstructural white matter changes in patients with HIV: A diffusion tensor imaging study. BMC Neurology, 2012, 12, 23.	1.8	51
59	Volume Estimation of the Thalamus Using Freesurfer and Stereology: Consistency between Methods. Neuroinformatics, 2012, 10, 341-350.	2.8	77
60	Concomitant Fractional Anisotropy and Volumetric Abnormalities in Temporal Lobe Epilepsy: Cross-Sectional Evidence for Progressive Neurologic Injury. PLoS ONE, 2012, 7, e46791.	2.5	91
61	Variability and asymmetry of the sulcal contours defining Broca's area homologue in the chimpanzee brain. Journal of Comparative Neurology, 2012, 520, 1165-1180.	1.6	24
62	The Influence of Spatial Registration on Detection of Cerebral Asymmetries Using Voxel-Based Statistics of Fractional Anisotropy Images and TBSS. PLoS ONE, 2012, 7, e36851.	2.5	36
63	Can the Language-dominant Hemisphere Be Predicted by Brain Anatomy?. Journal of Cognitive Neuroscience, 2011, 23, 2013-2029.	2.3	61
64	Microstructural and volumetric abnormalities of the putamen in juvenile myoclonic epilepsy. Epilepsia, 2011, 52, 1715-1724.	5.1	76
65	Surface-based method to evaluate global brain shape asymmetries in human and chimpanzee brains. , 2011, , .		3
66	Individual white matter fractional anisotropy analysis on patients with MRI negative partial epilepsy. Journal of Neurology, Neurosurgery and Psychiatry, 2010, 81, 136-139.	1.9	18
67	Excessive Daytime Sleepiness Is a Common Symptom in Fabry Disease. Case Reports in Neurology, 2009, 1, 33-40.	0.7	21
68	A Comparative Magnetic Resonance Imaging Study of the Anatomy, Variability, and Asymmetry of Broca's Area in the Human and Chimpanzee Brain. Journal of Neuroscience, 2009, 29, 14607-14616.	3.6	80
69	Brocaâ€™s area: Nomenclature, anatomy, typology and asymmetry. Brain and Language, 2009, 109, 29-48.	1.6	196
70	Confidence intervals for the volume of brain structures in Cavalieri sampling with local errors. Journal of Neuroscience Methods, 2009, 179, 71-77.	2.5	19
71	Quantitative MRI of the prefrontal cortex and executive function in patients with temporal lobe epilepsy. Epilepsy and Behavior, 2009, 15, 186-195.	1.7	99
72	Diffusion tensor imaging in a case of Kearnsâ€“Sayre syndrome: Striking brainstem involvement as a possible cause of oculomotor symptoms. Journal of the Neurological Sciences, 2009, 281, 110-112.	0.6	9

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73	Measurement of brain volume using MRI: software, techniques, choices and prerequisites. Journal of Anthropological Sciences, 2009, 87, 127-51.	0.4	44
74	Voxelâ€based morphometry of temporal lobe epilepsy: An introduction and review of the literature. Epilepsia, 2008, 49, 741-757.	5.1	369
75	Crossed cerebral lateralization for verbal and visuoâ€spatial function in a pair of handedness discordant monozygotic twins: MRI and fMRI brain imaging. Journal of Anatomy, 2008, 212, 235-248.	1.5	29
76	Nerve fiber impairment of anterior thalamocortical circuitry in juvenile myoclonic epilepsy. Neurology, 2008, 71, 1981-1985.	1.1	126
77	Persistent seizures following left temporal lobe surgery are associated with posterior and bilateral structural and functional brain abnormalities. Epilepsy Research, 2007, 74, 131-139.	1.6	53
78	Effects of sex and age on regional prefrontal brain volume in two human cohorts. European Journal of Neuroscience, 2007, 25, 307-318.	2.6	48
79	Sulcal variability, stereological measurement and asymmetry of Broca's area on MR images. Journal of Anatomy, 2007, 211, 534-555.	1.5	89
80	Recognition of emotion with temporal lobe epilepsy and asymmetrical amygdala damage. Epilepsy and Behavior, 2006, 9, 164-172.	1.7	44
81	Degree of hippocampal atrophy is related to side of seizure onset in temporal lobe epilepsy. American Journal of Neuroradiology, 2006, 27, 1046-52.	2.4	31
82	Voxel-based morphometry and stereology provide convergent evidence of the importance of medial prefrontal cortex for fluid intelligence in healthy adults. NeuroImage, 2005, 25, 1175-1186.	4.2	133
83	Comparison of standard and optimized voxel-based morphometry for analysis of brain changes associated with temporal lobe epilepsy. NeuroImage, 2004, 23, 860-868.	4.2	124
84	Voxel based morphometry of grey matter abnormalities in patients with medically intractable temporal lobe epilepsy: effects of side of seizure onset and epilepsy duration. Journal of Neurology, Neurosurgery and Psychiatry, 2002, 73, 648-655.	1.9	164
85	Voxel-Based Morphometric Comparison of Hippocampal and Extrahippocampal Abnormalities in Patients with Left and Right Hippocampal Atrophy. NeuroImage, 2002, 16, 23-31.	4.2	172
86	Fingerprinting seizure outcome after temporal lobe surgery using preoperative connectomic mapping. Brain Communications, 0, , .	3.3	0