

# Matthias J Koepp

## List of Publications by Year in descending order

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Version: 2024-02-01

116  
papers

5,594  
citations

76031

42  
h-index

100535

70  
g-index

125  
all docs

125  
docs citations

125  
times ranked

6435  
citing authors

#	ARTICLE	IF	CITATIONS
1	Disorganization of language and working memory systems in frontal versus temporal lobe epilepsy. <i>Brain</i> , 2023, 146, 935-953.	3.7	22
2	Episodic memory network connectivity in temporal lobe epilepsy. <i>Epilepsia</i> , 2022, 63, 2597-2622.	2.6	15
3	Neuroimaging-based brain-age prediction in diverse forms of epilepsy: a signature of psychosis and beyond. <i>Molecular Psychiatry</i> , 2021, 26, 825-834.	4.1	54
4	Impaired naming performance in temporal lobe epilepsy: language fMRI responses are modulated by disease characteristics. <i>Journal of Neurology</i> , 2021, 268, 147-160.	1.8	16
5	Clinical outcomes of COVID-19 in long-term care facilities for people with epilepsy. <i>Epilepsy and Behavior</i> , 2021, 115, 107602.	0.9	11
6	Alpha 5 subunit-containing GABAA receptors in temporal lobe epilepsy with normal MRI. <i>Brain Communications</i> , 2021, 3, fcaa190.	1.5	5
7	Seizures and Epilepsy After Stroke: Epidemiology, Biomarkers and Management. <i>Drugs and Aging</i> , 2021, 38, 285-299.	1.3	60
8	Resection of the piriform cortex for temporal lobe epilepsy: a Novel approach on imaging segmentation and surgical application. <i>British Journal of Neurosurgery</i> , 2021, , 1-6.	0.4	6
9	Validation of a combined image derived input function and venous sampling approach for the quantification of [18F]GE-179 PET binding in the brain. <i>NeuroImage</i> , 2021, 237, 118194.	2.1	17
10	Seizures after Ischemic Stroke: A Matched Multicenter Study. <i>Annals of Neurology</i> , 2021, 90, 808-820.	2.8	54
11	The impact of SARS-CoV-2 vaccination in Dravet syndrome: A UK survey. <i>Epilepsy and Behavior</i> , 2021, 124, 108258.	0.9	15
12	Decoupling of functional and structural language networks in temporal lobe epilepsy. <i>Epilepsia</i> , 2021, 62, 2941-2954.	2.6	15
13	Effect of Anti-seizure Medications on Functional Anatomy of Language: A Perspective From Language Functional Magnetic Resonance Imaging. <i>Frontiers in Neuroscience</i> , 2021, 15, 787272.	1.4	6
14	Noise removal in resting-state and task fMRI: functional connectivity and activation maps. <i>Journal of Neural Engineering</i> , 2020, 17, 046040.	1.8	22
15	Resective surgery prevents progressive cortical thinning in temporal lobe epilepsy. <i>Brain</i> , 2020, 143, 3262-3272.	3.7	27
16	Progress report on new antiepileptic drugs: A summary of the Fifteenth Eilat Conference on New Antiepileptic Drugs and Devices (EILAT XV). II. Drugs in more advanced clinical development. <i>Epilepsia</i> , 2020, 61, 2365-2385.	2.6	45
17	Thalamus and focal to bilateral seizures. <i>Neurology</i> , 2020, 95, e2427-e2441.	1.5	54
18	Shared hippocampal abnormalities in sporadic temporal lobe epilepsy patients and their siblings. <i>Epilepsia</i> , 2020, 61, 735-746.	2.6	10

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19	Cognitive Function in Genetic Generalized Epilepsies: Insights From Neuropsychology and Neuroimaging. <i>Frontiers in Neurology</i> , 2020, 11, 144.	1.1	41
20	Motor hyperactivation during cognitive tasks: An endophenotype of juvenile myoclonic epilepsy. <i>Epilepsia</i> , 2020, 61, 1438-1452.	2.6	17
21	Unexpected brain imaging findings in patients with seizures. <i>Epilepsy and Behavior</i> , 2020, 111, 107241.	0.9	6
22	Functional imaging of the piriform cortex in focal epilepsy. <i>Experimental Neurology</i> , 2020, 330, 113305.	2.0	7
23	Machine learning as a diagnostic decision aid for patients with transient loss of consciousness. <i>Neurology: Clinical Practice</i> , 2020, 10, 96-105.	0.8	25
24	Abnormal hippocampal structure and function in juvenile myoclonic epilepsy and unaffected siblings. <i>Brain</i> , 2019, 142, 2670-2687.	3.7	54
25	Progressive Cortical Thinning in Patients With Focal Epilepsy. <i>JAMA Neurology</i> , 2019, 76, 1230.	4.5	132
26	Response to commentary on recommendations for the use of structural MRI in the care of patients with epilepsy: A consensus report from the ILAE Neuroimaging Task Force. <i>Epilepsia</i> , 2019, 60, 2143-2144.	2.6	74
27	Naming fMRI predicts the effect of temporal lobe resection on language decline. <i>Annals of Clinical and Translational Neurology</i> , 2019, 6, 2186-2196.	1.7	29
28	Imaging Neural Excitability and Networks in Genetic Absence Epilepsy Models. , 2019, , 181-192.		1
29	Imaging Biomarkers for Febrile Status Epilepticus and Other Forms of Convulsive Status Epilepticus. , 2019, , 1-8.		0
30	Experimental MRI Approaches to Study Posttraumatic Epilepsy. , 2019, , 9-17.		0
31	Imaging Biomarkers of Acquired Epilepsies. , 2019, , 18-30.		0
32	Imaging and Cognition in Children with New-Onset Epilepsies. , 2019, , 31-47.		0
33	Imaging Genetics for Benign Mesial Temporal Lobe Epilepsy. , 2019, , 48-54.		2
34	Computational Neuroimaging of Epilepsy. , 2019, , 55-67.		0
35	Imaging White Matter Pathology in Epilepsy. , 2019, , 68-76.		0
36	Network Modeling of Epilepsy Using Structural and Functional MRI. , 2019, , 77-94.		3

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37	Mapping Metabolism and Inflammation in Epilepsy. , 2019, , 95-107.		0
38	Interictal and Ictal Brain Network Changes in Focal Epilepsy. , 2019, , 108-114.		0
39	Ictal Events Imaged through SPECT. , 2019, , 115-123.		0
40	Imaging Cortical and Subcortical Circuitry in Generalized Epilepsies. , 2019, , 124-134.		1
41	Prevention of Epileptogenesis in Animal Models. , 2019, , 135-147.		0
42	Value of witness observations in the differential diagnosis of transient loss of consciousness. Neurology, 2019, 92, e895-e904.	1.5	27
43	Biomarkers of Drug Response and Pharmacoresistance to Epilepsy. , 2019, , 157-168.		0
44	Tracking Epilepsy Disease Progression with Neuroimaging. , 2019, , 217-228.		0
45	Imaging Biomarkers to Study Cognition in Epilepsy. , 2019, , 229-244.		0
46	Network Excitability and Cognition in the Developing Brain. , 2019, , 193-206.		0
47	Recommendations for the use of structural magnetic resonance imaging in the care of patients with epilepsy: A consensus report from the International League Against Epilepsy Neuroimaging Task Force. Epilepsia, 2019, 60, 1054-1068.	2.6	184
48	Association of Piriform Cortex Resection With Surgical Outcomes in Patients With Temporal Lobe Epilepsy. JAMA Neurology, 2019, 76, 690.	4.5	69
49	A summary of data presented at the XIV conference on new antiepileptic drug and devices (EILAT XIV). Epilepsy Research, 2019, 153, 66-67.	0.8	3
50	Imaging Mechanisms of Drug Resistance in Experimental Models of Epilepsy. , 2019, , 148-156.		2
51	Developmental MRI markers cosegregate juvenile patients with myoclonic epilepsy and their healthy siblings. Neurology, 2019, 93, e1272-e1280.	1.5	35
52	Perfusion-based Brain Connectivity: PASL vs pCASL. , 2019, , .		0
53	Decreased GABA-A Receptor Binding in Association With Î²-Lactam Antibiotic Use. Clinical Nuclear Medicine, 2019, 44, 981-982.	0.7	2
54	PharmacofMRI: A Tool to Predict the Response to Antiepileptic Drugs in Epilepsy. Frontiers in Neurology, 2019, 10, 1203.	1.1	11

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55	Comment on <i>In Vivo</i> [ <sup>18</sup> F]GE-179 Brain Signal Does Not Show NMDA-Specific Modulation with Drug Challenges in Rodents and Nonhuman Primates. ACS Chemical Neuroscience, 2019, 10, 768-772.	1.7	11
56	Imaging Comorbidities in Epilepsy: Depression. , 2019, , 207-216.		0
57	Predicting the Outcome of Surgical Interventions for Epilepsy Using Imaging Biomarkers. , 2019, , 169-180.		1
58	The SeLECT score is useful to predict post-stroke epilepsy. Lancet Neurology, The, 2018, 17, 395-396.	4.9	7
59	Age-Specific <sup>18</sup> F-FDG Image Processing Pipelines and Analysis Are Essential for Individual Mapping of Seizure Foci in Pediatric Patients with Intractable Epilepsy. Journal of Nuclear Medicine, 2018, 59, 1590-1596.	2.8	20
60	Prediction of late seizures after ischaemic stroke with a novel prognostic model (the SeLECT score): a multivariable prediction model development and validation study. Lancet Neurology, The, 2018, 17, 143-152.	4.9	178
61	Simplifying [ <sup>18</sup> F]GE-179 PET: are both arterial blood sampling and 90-min acquisitions essential?. EJNMMI Research, 2018, 8, 46.	1.1	4
62	Progress report on new antiepileptic drugs: A summary of the Fourteenth Eilat Conference on New Antiepileptic Drugs and Devices (EILAT XIV). I. Drugs in preclinical and early clinical development. Epilepsia, 2018, 59, 1811-1841.	2.6	108
63	Progress report on new antiepileptic drugs: A summary of the Fourteenth Eilat Conference on New Antiepileptic Drugs and Devices (EILAT XIV). II. Drugs in more advanced clinical development. Epilepsia, 2018, 59, 1842-1866.	2.6	44
64	Left temporal lobe language network connectivity in temporal lobe epilepsy. Brain, 2018, 141, 2406-2418.	3.7	75
65	Effects of carbamazepine and lamotrigine on functional magnetic resonance imaging cognitive networks. Epilepsia, 2018, 59, 1362-1371.	2.6	30
66	Arterial Spin Labeling Reveals Disrupted Brain Networks and Functional Connectivity in Drug-Resistant Temporal Epilepsy. Frontiers in Neuroinformatics, 2018, 12, 101.	1.3	16
67	Imaging Biomarkers of Anti-Epileptic Drug Action: Insights from Magnetic Resonance Imaging. Current Pharmaceutical Design, 2018, 23, 5727-5739.	0.9	23
68	Effect of topiramate and zonisamide on fMRI cognitive networks. Neurology, 2017, 88, 1165-1171.	1.5	69
69	Test-retest reproducibility of quantitative binding measures of [ <sup>11</sup> C]Ro15-4513, a PET ligand for GABA A receptors containing alpha5 subunits. NeuroImage, 2017, 152, 270-282.	2.1	17
70	Neuroinflammation imaging markers for epileptogenesis. Epilepsia, 2017, 58, 11-19.	2.6	41
71	Clinical studies and anti-inflammatory mechanisms of treatments. Epilepsia, 2017, 58, 69-82.	2.6	34
72	A meta-analysis on progressive atrophy in intractable temporal lobe epilepsy. Neurology, 2017, 89, 506-516.	1.5	118

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73	WONOE appraisal: Imaging biomarkers in epilepsy. <i>Epilepsia</i> , 2017, 58, 315-330.	2.6	26
74	Advances of Molecular Imaging in Epilepsy. <i>Current Neurology and Neuroscience Reports</i> , 2016, 16, 58.	2.0	25
75	PharmacofMRI: Determining the functional anatomy of the effects of medication. <i>NeuroImage: Clinical</i> , 2016, 12, 691-697.	1.4	56
76	Hyperphosphorylated tau in patients with refractory epilepsy correlates with cognitive decline: a study of temporal lobe resections. <i>Brain</i> , 2016, 139, 2441-2455.	3.7	193
77	Value of patient-reported symptoms in the diagnosis of transient loss of consciousness. <i>Neurology</i> , 2016, 87, 625-633.	1.5	51
78	Activations in temporal areas using visual and auditory naming stimuli: A language fMRI study in temporal lobe epilepsy. <i>Epilepsy Research</i> , 2016, 128, 102-112.	0.8	12
79	The help of biomarkers in the prevention of epilepsy. <i>Lancet Neurology</i> , The, 2016, 15, 782-784.	4.9	3
80	Cerebral metabolism and perfusion in MR-negative individuals with refractory focal epilepsy assessed by simultaneous acquisition of 18 F-FDG PET and arterial spin labeling. <i>NeuroImage: Clinical</i> , 2016, 11, 648-657.	1.4	67
81	Memory network plasticity after temporal lobe resection: a longitudinal functional imaging study. <i>Brain</i> , 2016, 139, 415-430.	3.7	62
82	Audit of practice in sudden unexpected death in epilepsy (<sc>SUDEP</sc>) post mortems and neuropathological findings. <i>Neuropathology and Applied Neurobiology</i> , 2016, 42, 463-476.	1.8	68
83	Brain imaging in the assessment for epilepsy surgery. <i>Lancet Neurology</i> , The, 2016, 15, 420-433.	4.9	239
84	Development of Fluorine-18 Labeled Metabolically Activated Tracers for Imaging of Drug Efflux Transporters with Positron Emission Tomography. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 6058-6080.	2.9	18
85	Juvenile myoclonic epilepsy: A system disorder of the brain. <i>Epilepsy Research</i> , 2015, 114, 2-12.	0.8	103
86	Memory fMRI predicts verbal memory decline after anterior temporal lobe resection. <i>Neurology</i> , 2015, 84, 1512-1519.	1.5	88
87	Structural imaging biomarkers of sudden unexpected death in epilepsy. <i>Brain</i> , 2015, 138, 2907-2919.	3.7	95
88	Motor co-activation in siblings of patients with juvenile myoclonic epilepsy: an imaging endophenotype?. <i>Brain</i> , 2014, 137, 2469-2479.	3.7	58
89	Neuroimaging of drug resistance in epilepsy. <i>Current Opinion in Neurology</i> , 2014, 27, 192-198.	1.8	10
90	Levetiracetam reduces abnormal network activations in temporal lobe epilepsy. <i>Neurology</i> , 2014, 83, 1508-1512.	1.5	66

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91	In vivo P-glycoprotein function before and after epilepsy surgery. <i>Neurology</i> , 2014, 83, 1326-1331.	1.5	37
92	Testâ€“retest reproducibility of cannabinoid-receptor type 1 availability quantified with the PET ligand [11C]MePPEP. <i>NeuroImage</i> , 2014, 97, 151-162.	2.1	17
93	Neural correlates of de novo depression following left temporal lobe epilepsy surgery: A voxel based morphometry study of pre-surgical structural MRI. <i>Epilepsy Research</i> , 2014, 108, 517-525.	0.8	14
94	Juvenile myoclonic epilepsy â€” Neuroimaging findings. <i>Epilepsy and Behavior</i> , 2013, 28, S40-S44.	0.9	54
95	The effect of topiramate on cognitive fMRI. <i>Epilepsy Research</i> , 2013, 105, 250-255.	0.8	57
96	A functional magnetic resonance imaging study mapping the episodic memory encoding network in temporal lobe epilepsy. <i>Brain</i> , 2013, 136, 1868-1888.	3.7	124
97	Abnormal thalamocortical structural and functional connectivity in juvenile myoclonic epilepsy. <i>Brain</i> , 2012, 135, 3635-3644.	3.7	159
98	Memory in frontal lobe epilepsy: An fMRI study. <i>Epilepsia</i> , 2012, 53, 1756-1764.	2.6	24
99	Frontal lobe function and structure in juvenile myoclonic epilepsy: A comprehensive review of neuropsychological and imaging data. <i>Epilepsia</i> , 2012, 53, 2091-2098.	2.6	106
100	Imaging language networks before and after anterior temporal lobe resection: Results of a longitudinal fMRI study. <i>Epilepsia</i> , 2012, 53, 639-650.	2.6	139
101	Motor system hyperconnectivity in juvenile myoclonic epilepsy: a cognitive functional magnetic resonance imaging study. <i>Brain</i> , 2011, 134, 1710-1719.	3.7	192
102	Hippocampal activation correlates with visual confrontation naming: fMRI findings in controls and patients with temporal lobe epilepsy. <i>Epilepsy Research</i> , 2011, 95, 246-254.	0.8	73
103	Imaging memory in temporal lobe epilepsy: predicting the effects of temporal lobe resection. <i>Brain</i> , 2010, 133, 1186-1199.	3.7	250
104	Functional neuroimaging in the postictal state. <i>Epilepsy and Behavior</i> , 2010, 19, 127-130.	0.9	8
105	Workshop Report: Michael Forum: Dresden, Germany: September 18-20, 2008. <i>Epilepsia</i> , 2009, 50, 1833-1834.	2.6	0
106	The prognostic value of long-term ambulatory electroencephalography in antiepileptic drug reduction in adults with learning disability and epilepsy in long-term remission. <i>Epilepsy and Behavior</i> , 2008, 13, 474-477.	0.9	18
107	Abnormalities of language networks in temporal lobe epilepsy. <i>NeuroImage</i> , 2007, 36, 209-221.	2.1	157
108	Pharmacoresistance in Epilepsy: A Pilot PET Study with the P-Glycoprotein Substrate R-[11 C]verapamil. <i>Epilepsia</i> , 2007, 48, 1774-1784.	2.6	119

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109	Hemispheric asymmetries in language-related pathways: A combined functional MRI and tractography study. <i>NeuroImage</i> , 2006, 32, 388-399.	2.1	373
110	Status Epilepticus and Tiagabine Therapy Revisited. <i>Epilepsia</i> , 2005, 46, 1625-1632.	2.6	59
111	Imaging structure and function in refractory focal epilepsy. <i>Lancet Neurology</i> , The, 2005, 4, 42-53.	4.9	118
112	Towards improved test-retest reliability in quantitative ligand PET: [11C]Diprenorphine as an example. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S665-S665.	2.4	2
113	Epilepsy. <i>Current Opinion in Neurology</i> , 2004, 17, 467-474.	1.8	12
114	Sulthiame in adults with refractory epilepsy and learning disability: an open trial. <i>Epilepsy Research</i> , 2002, 50, 277-282.	0.8	38
115	In vivo [11C] flumazenil-PET correlates with ex vivo [3H] flumazenil autoradiography in hippocampal sclerosis. <i>Annals of Neurology</i> , 1998, 43, 618-626.	2.8	69
116	Central Benzodiazepine/gamma-Aminobutyric AcidA Receptors in Idiopathic Generalized Epilepsy: An [11C]Flumazenil Positron Emission Tomography Study. <i>Epilepsia</i> , 1997, 38, 1089-1097.	2.6	79