

Andrea Bernasconi

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

6,321
citations

76326

40
h-index

79698

73
g-index

101
all docs

101
docs citations

101
times ranked

6152
citing authors

#	ARTICLE	IF	CITATIONS
1	International consensus classification of hippocampal sclerosis in temporal lobe epilepsy: A Task Force report from the ILAE Commission on Diagnostic Methods. <i>Epilepsia</i> , 2013, 54, 1315-1329.	5.1	816
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	Anatomical and microstructural determinants of hippocampal subfield functional connectome embedding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10154-10159.	7.1	201
4	Advances in MRI for 'cryptogenic' epilepsies. <i>Nature Reviews Neurology</i> , 2011, 7, 99-108.	10.1	197
5	Cortical thickness analysis in temporal lobe epilepsy. <i>Neurology</i> , 2010, 74, 1776-1784.	1.1	193
6	Imaging structural and functional brain networks in temporal lobe epilepsy. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 624.	2.0	185
7	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. <i>Epilepsia</i> , 2019, 60, 1054-1068.	5.1	184
8	Small focal cortical dysplasia lesions are located at the bottom of a deep sulcus. <i>Brain</i> , 2008, 131, 3246-3255.	7.6	179
9	Diagnostic methods and treatment options for focal cortical dysplasia. <i>Epilepsia</i> , 2015, 56, 1669-1686.	5.1	167
10	Thalamo-cortical network pathology in idiopathic generalized epilepsy: Insights from MRI-based morphometric correlation analysis. <i>NeuroImage</i> , 2009, 46, 373-381.	4.2	157
11	Texture analysis and morphological processing of magnetic resonance imaging assist detection of focal cortical dysplasia in extra-temporal partial epilepsy. <i>Annals of Neurology</i> , 2001, 49, 770-775.	5.3	156
12	Automated detection of cortical dysplasia type II in MRI-negative epilepsy. <i>Neurology</i> , 2014, 83, 48-55.	1.1	148
13	Structural substrates for resting network disruption in temporal lobe epilepsy. <i>Brain</i> , 2012, 135, 2350-2357.	7.6	137
14	T2 Relaxometry Can Lateralize Mesial Temporal Lobe Epilepsy in Patients with Normal MRI. <i>NeuroImage</i> , 2000, 12, 739-746.	4.2	129
15	Automated detection of focal cortical dysplasia lesions using computational models of their MRI characteristics and texture analysis. <i>NeuroImage</i> , 2003, 19, 1748-1759.	4.2	125
16	Magnetic resonance imaging pattern learning in temporal lobe epilepsy: Classification and prognostics. <i>Annals of Neurology</i> , 2015, 77, 436-446.	5.3	120
17	A meta-analysis on progressive atrophy in intractable temporal lobe epilepsy. <i>Neurology</i> , 2017, 89, 506-516.	1.1	118
18	The spectrum of structural and functional imaging abnormalities in temporal lobe epilepsy. <i>Annals of Neurology</i> , 2016, 80, 142-153.	5.3	116

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19	Spatial patterns of water diffusion along white matter tracts in temporal lobe epilepsy. <i>Neurology</i> , 2012, 79, 455-462.	1.1	111
20	Network-based atrophy modeling in the common epilepsies: A worldwide ENIGMA study. <i>Science Advances</i> , 2020, 6, .	10.3	97
21	Mapping thalamocortical network pathology in temporal lobe epilepsy. <i>Neurology</i> , 2012, 78, 129-136.	1.1	95
22	The superficial white matter in temporal lobe epilepsy: a key link between structural and functional network disruptions. <i>Brain</i> , 2016, 139, 2431-2440.	7.6	85
23	Neuroimaging and connectomics of drug-resistant epilepsy at multiple scales: From focal lesions to macroscale networks. <i>Epilepsia</i> , 2019, 60, 593-604.	5.1	82
24	The spectrum of structural and functional network alterations in malformations of cortical development. <i>Brain</i> , 2017, 140, 2133-2143.	7.6	80
25	Temporal lobe epilepsy. <i>Neurology</i> , 2019, 92, e2209-e2220.	1.1	80
26	Multimodal MRI profiling of focal cortical dysplasia type II. <i>Neurology</i> , 2017, 88, 734-742.	1.1	78
27	Whole-brain MRI phenotyping in dysplasia-related frontal lobe epilepsy. <i>Neurology</i> , 2016, 86, 643-650.	1.1	75
28	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.	5.1	74
29	Multi-contrast submillimetric 3% Tesla hippocampal subfield segmentation protocol and dataset. <i>Scientific Data</i> , 2015, 2, 150059.	5.3	70
30	Computational Models of MRI Characteristics of Focal Cortical Dysplasia Improve Lesion Detection. <i>NeuroImage</i> , 2002, 17, 1755-1760.	4.2	67
31	Functional connectome contractions in temporal lobe epilepsy: Microstructural underpinnings and predictors of surgical outcome. <i>Epilepsia</i> , 2020, 61, 1221-1233.	5.1	65
32	Functional network alterations and their structural substrate in drug-resistant epilepsy. <i>Frontiers in Neuroscience</i> , 2014, 8, 411.	2.8	64
33	Preferential susceptibility of limbic cortices to microstructural damage in temporal lobe epilepsy: A quantitative T1 mapping study. <i>NeuroImage</i> , 2018, 182, 294-303.	4.2	63
34	Morphometric MRI Analysis of the Parahippocampal Region in Temporal Lobe Epilepsy. <i>Annals of the New York Academy of Sciences</i> , 2000, 911, 495-500.	3.8	61
35	In vivo MRI signatures of hippocampal subfield pathology in intractable epilepsy. <i>Human Brain Mapping</i> , 2016, 37, 1103-1119.	3.6	61
36	Quantitative analysis of temporal lobe white matter T2 relaxation time in temporal lobe epilepsy. <i>NeuroImage</i> , 2004, 23, 318-324.	4.2	60

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37	Focal cortical malformations in children with early infantile epilepsy and <i>PCDH19</i> mutations: case report. <i>Developmental Medicine and Child Neurology</i> , 2018, 60, 100-105.	2.1	56
38	Histological and MRI markers of white matter damage in focal epilepsy. <i>Epilepsy Research</i> , 2018, 140, 29-38.	1.6	52
39	7T Epilepsy Task Force Consensus Recommendations on the Use of 7T MRI in Clinical Practice. <i>Neurology</i> , 2021, 96, 327-341.	1.1	52
40	Microstructure-Informed Connectomics: Enriching Large-Scale Descriptions of Healthy and Diseased Brains. <i>Brain Connectivity</i> , 2019, 9, 113-127.	1.7	50
41	Community-informed connectomics of the thalamocortical system in generalized epilepsy. <i>Neurology</i> , 2019, 93, e1112-e1122.	1.1	50
42	In Vivo Profiling of Focal Cortical Dysplasia on High-resolution MRI with Computational Models. <i>Epilepsia</i> , 2006, 47, 134-142.	5.1	48
43	Connectome biomarkers of drug-resistant epilepsy. <i>Epilepsia</i> , 2021, 62, 6-24.	5.1	48
44	Convergence of cortical types and functional motifs in the human mesiotemporal lobe. <i>ELife</i> , 2020, 9, .	6.0	46
45	Interictal Hippocampal Spiking Influences the Occurrence of Hippocampal Sleep Spindles. <i>Sleep</i> , 2015, 38, 1927-1933.	1.1	44
46	Subregional Mesiotemporal Network Topology Is Altered in Temporal Lobe Epilepsy. <i>Cerebral Cortex</i> , 2016, 26, 3237-3248.	2.9	40
47	Multicenter Validation of a Deep Learning Detection Algorithm for Focal Cortical Dysplasia. <i>Neurology</i> , 2021, 97, e1571-e1582.	1.1	39
48	A connectome-based mechanistic model of focal cortical dysplasia. <i>Brain</i> , 2019, 142, 688-699.	7.6	38
49	Developmental MRI markers cosegregate juvenile patients with myoclonic epilepsy and their healthy siblings. <i>Neurology</i> , 2019, 93, e1272-e1280.	1.1	35
50	Surface-Based Texture and Morphological Analysis Detects Subtle Cortical Dysplasia. <i>Lecture Notes in Computer Science</i> , 2008, 11, 645-652.	1.3	34
51	Macroscale and microcircuit dissociation of focal and generalized human epilepsies. <i>Communications Biology</i> , 2020, 3, 244.	4.4	34
52	Targeting age-related differences in brain and cognition with multimodal imaging and connectome topography profiling. <i>Human Brain Mapping</i> , 2019, 40, 5213-5230.	3.6	33
53	Gray matter structural compromise is equally distributed in left and right temporal lobe epilepsy. <i>Human Brain Mapping</i> , 2016, 37, 515-524.	3.6	30
54	MRI essentials in epileptology: a review from the ILAE Imaging Taskforce. <i>Epileptic Disorders</i> , 2020, 22, 421-437.	1.3	28

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55	Altered communication dynamics reflect cognitive deficits in temporal lobe epilepsy. <i>Epilepsia</i> , 2021, 62, 1022-1033.	5.1	28
56	A Surface Patch-Based Segmentation Method for Hippocampal Subfields. <i>Lecture Notes in Computer Science</i> , 2016, , 379-387.	1.3	28
57	Atypical neural topographies underpin dysfunctional pattern separation in temporal lobe epilepsy. <i>Brain</i> , 2021, 144, 2486-2498.	7.6	26
58	Decomposing MRI phenotypic heterogeneity in epilepsy: a step towards personalized classification. <i>Brain</i> , 2022, 145, 897-908.	7.6	26
59	Surface-based multi-template automated hippocampal segmentation: Application to temporal lobe epilepsy. <i>Medical Image Analysis</i> , 2012, 16, 1445-1455.	11.6	25
60	Atypical functional connectome hierarchy impacts cognition in temporal lobe epilepsy. <i>Epilepsia</i> , 2021, 62, 2589-2603.	5.1	25
61	Unveiling epileptogenic lesions: The contribution of image processing. <i>Epilepsia</i> , 2011, 52, 20-24.	5.1	24
62	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
63	Connectome-based models of the epileptogenic network: a step towards epileptomics?. <i>Brain</i> , 2017, 140, 2525-2527.	7.6	19
64	Topographic principles of cortical fluid-attenuated inversion recovery signal in temporal lobe epilepsy. <i>Epilepsia</i> , 2018, 59, 627-635.	5.1	19
65	Quantitative MR imaging of the neocortex. <i>Neuroimaging Clinics of North America</i> , 2004, 14, 425-436.	1.0	18
66	Topographic divergence of atypical cortical asymmetry and atrophy patterns in temporal lobe epilepsy. <i>Brain</i> , 2022, 145, 1285-1298.	7.6	18
67	Celiac Disease, Bilateral Occipital Calcifications and Intractable Epilepsy: Mechanisms of Seizure Origin. <i>Epilepsia</i> , 1998, 39, 300-306.	5.1	16
68	Accurate cortical tissue classification on <sc>MRI</sc> by modeling cortical folding patterns. <i>Human Brain Mapping</i> , 2015, 36, 3563-3574.	3.6	16
69	MRI-Based Machine Learning Prediction Framework to Lateralize Hippocampal Sclerosis in Patients With Temporal Lobe Epilepsy. <i>Neurology</i> , 2021, 97, e1583-e1593.	1.1	16
70	Functional Networks in Epilepsy Presurgical Evaluation. <i>Neurosurgery Clinics of North America</i> , 2020, 31, 395-405.	1.7	15
71	WONOEP appraisal: Network concept from an imaging perspective. <i>Epilepsia</i> , 2019, 60, 1293-1305.	5.1	14
72	Whole-brain multimodal MRI phenotyping of periventricular nodular heterotopia. <i>Neurology</i> , 2020, 95, e2418-e2426.	1.1	14

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73	EEG Background Delta Activity in Temporal Lobe Epilepsy: Correlation with Volumetric and Spectroscopic Imaging. <i>Epilepsia</i> , 1999, 40, 1580-1586.	5.1	13
74	Automated Detection of Epileptogenic Cortical Malformations Using Multimodal MRI. <i>Lecture Notes in Computer Science</i> , 2017, , 349-356.	1.3	12
75	Unsupervised machine learning reveals lesional variability in focal cortical dysplasia at mesoscopic scale. <i>NeuroImage: Clinical</i> , 2020, 28, 102438.	2.7	11
76	Event-based modeling in temporal lobe epilepsy demonstrates progressive atrophy from cross-sectional data. <i>Epilepsia</i> , 2022, 63, 2081-2095.	5.1	11
77	Imaging the epileptic brain—time for new standards. <i>Nature Reviews Neurology</i> , 2014, 10, 133-134.	10.1	10
78	Magnetic resonance imaging in intractable epilepsy: focus on structural image analysis. <i>Advances in Neurology</i> , 2006, 97, 273-8.	0.8	9
79	Deep Convolutional Networks for Automated Detection of Epileptogenic Brain Malformations. <i>Lecture Notes in Computer Science</i> , 2018, , 490-497.	1.3	8
80	Multimodal computational neocortical anatomy in pediatric hippocampal sclerosis. <i>Annals of Clinical and Translational Neurology</i> , 2018, 5, 1200-1210.	3.7	7
81	Imaging characteristics of temporopolar blurring in the context of hippocampal sclerosis. <i>Epileptic Disorders</i> , 2022, 24, 1-8.	1.3	7
82	A Structure-Function Substrate of Memory for Spatial Configurations in Medial and Lateral Temporal Cortices. <i>Cerebral Cortex</i> , 2021, 31, 3213-3225.	2.9	6
83	Texture analysis and morphological processing of magnetic resonance imaging assist detection of focal cortical dysplasia in extra-temporal partial epilepsy. <i>Annals of Neurology</i> , 2001, 49, 770-775.	5.3	6
84	ILAE Neuroimaging Task Force Highlight: harnessing optimized imaging protocols for drug-resistant childhood epilepsy. <i>Epileptic Disorders</i> , 2021, 23, 675-681.	1.3	6
85	Advanced MRI analysis methods for detection of focal cortical dysplasia. <i>Epileptic Disorders</i> , 2003, 5 Suppl 2, S81-4.	1.3	6
86	Structural Image Analysis in Epilepsy. <i>Epilepsia</i> , 2002, 43, 19-24.	5.1	4
87	Connectome-Based Pattern Learning Predicts Histology and Surgical Outcome of Epileptogenic Malformations of Cortical Development. <i>Lecture Notes in Computer Science</i> , 2017, , 390-397.	1.3	4
88	ILAE Neuroimaging Task Force highlight: Review MRI scans with semiology in mind. <i>Epileptic Disorders</i> , 2020, 22, 683-687.	1.3	4
89	Multi-Template Mesiotemporal Lobe Segmentation: Effects of Surface and Volume Feature Modeling. <i>Frontiers in Neuroinformatics</i> , 2018, 12, 39.	2.5	3
90	Network Modeling of Epilepsy Using Structural and Functional MRI. , 2019, , 77-94.		3

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91	New interinstitutional, multimodal presurgical evaluation protocol associated with improved seizure freedom for poorly defined cases of focal epilepsy in children. <i>Journal of Neurosurgery: Pediatrics</i> , 2022, 29, 74-82.	1.3	3
92	Contributions of Imaging to Neuromodulatory Treatment of Drug-Refractory Epilepsy. <i>Brain Sciences</i> , 2020, 10, 700.	2.3	2
93	Brain Morphometry: Epilepsy. <i>Neuroinformatics</i> , 2018, , 301-321.	0.3	1
94	Predicting the Outcome of Surgical Interventions for Epilepsy Using Imaging Biomarkers. , 2019, , 169-180.		1
95	Computational Neuroimaging of Epilepsy. , 2019, , 55-67.		0
96	Tracking Epilepsy Disease Progression with Neuroimaging. , 2019, , 217-228.		0
97	Hyperekplexia: genetics and culture-bound stimulus-induced disorders. , 2001, , 151-164.		0