

# 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  | 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        |
| 2  | 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         |
| 3  | Topographic divergence of atypical cortical asymmetry and atrophy patterns in temporal lobe epilepsy. <i>Brain</i> , 2022, 145, 1285-1298.  | 7.6  | 18        |
| 4  | Decomposing MRI phenotypic heterogeneity in epilepsy: a step towards personalized classification. <i>Brain</i> , 2022, 145, 897-908.  | 7.6  | 26        |
| 5  | Imaging characteristics of temporopolar blurring in the context of hippocampal sclerosis. <i>Epileptic Disorders</i> , 2022, 24, 1-8.   | 1.3  | 7         |
| 6  | Event-based modeling in temporal lobe epilepsy demonstrates progressive atrophy from cross-sectional data. <i>Epilepsia</i> , 2022, 63, 2081-2095.  | 5.1  | 11        |
| 7  | Connectome biomarkers of drug-resistant epilepsy. <i>Epilepsia</i> , 2021, 62, 6-24.  | 5.1  | 48        |
| 8  | 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         |
| 9  | Atypical neural topographies underpin dysfunctional pattern separation in temporal lobe epilepsy. <i>Brain</i> , 2021, 144, 2486-2498.  | 7.6  | 26        |
| 10 | Altered communication dynamics reflect cognitive deficits in temporal lobe epilepsy. <i>Epilepsia</i> , 2021, 62, 1022-1033.  | 5.1  | 28        |
| 11 | Multicenter Validation of a Deep Learning Detection Algorithm for Focal Cortical Dysplasia. <i>Neurology</i> , 2021, 97, e1571-e1582.   | 1.1  | 39        |
| 12 | Atypical functional connectome hierarchy impacts cognition in temporal lobe epilepsy. <i>Epilepsia</i> , 2021, 62, 2589-2603.   | 5.1  | 25        |
| 13 | 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        |
| 14 | 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        |
| 15 | 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         |
| 16 | Unsupervised machine learning reveals lesional variability in focal cortical dysplasia at mesoscopic scale. <i>NeuroImage: Clinical</i> , 2020, 28, 102438.   | 2.7  | 11        |
| 17 | Contributions of Imaging to Neuromodulatory Treatment of Drug-Refractory Epilepsy. <i>Brain Sciences</i> , 2020, 10, 700.   | 2.3  | 2         |
| 18 | Network-based atrophy modeling in the common epilepsies: A worldwide ENIGMA study. <i>Science Advances</i> , 2020, 6, .   | 10.3 | 97        |

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|----|--|-----|-----------|
| 19 | MRI essentials in epileptology: a review from the ILAE Imaging Taskforce. <i>Epileptic Disorders</i> , 2020, 22, 421-437.  | 1.3 | 28        |
| 20 | Whole-brain multimodal MRI phenotyping of periventricular nodular heterotopia. <i>Neurology</i> , 2020, 95, e2418-e2426.   | 1.1 | 14        |
| 21 | Functional connectome contractions in temporal lobe epilepsy: Microstructural underpinnings and predictors of surgical outcome. <i>Epilepsia</i> , 2020, 61, 1221-1233.  | 5.1 | 65        |
| 22 | Functional Networks in Epilepsy Presurgical Evaluation. <i>Neurosurgery Clinics of North America</i> , 2020, 31, 395-405.  | 1.7 | 15        |
| 23 | Macroscale and microcircuit dissociation of focal and generalized human epilepsies. <i>Communications Biology</i> , 2020, 3, 244.  | 4.4 | 34        |
| 24 | ILAE Neuroimaging Task Force highlight: Review MRI scans with semiology in mind. <i>Epileptic Disorders</i> , 2020, 22, 683-687.   | 1.3 | 4         |
| 25 | Convergence of cortical types and functional motifs in the human mesiotemporal lobe. <i>ELife</i> , 2020, 9, .   | 6.0 | 46        |
| 26 | Microstructure-Informed Connectomics: Enriching Large-Scale Descriptions of Healthy and Diseased Brains. <i>Brain Connectivity</i> , 2019, 9, 113-127.   | 1.7 | 50        |
| 27 | Community-informed connectomics of the thalamocortical system in generalized epilepsy. <i>Neurology</i> , 2019, 93, e1112-e1122.   | 1.1 | 50        |
| 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 | 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        |
| 30 | Computational Neuroimaging of Epilepsy. , 2019, , 55-67.   |     | 0         |
| 31 | Network Modeling of Epilepsy Using Structural and Functional MRI. , 2019, , 77-94.   |     | 3         |
| 32 | Tracking Epilepsy Disease Progression with Neuroimaging. , 2019, , 217-228.  |     | 0         |
| 33 | WONOEP appraisal: Network concept from an imaging perspective. <i>Epilepsia</i> , 2019, 60, 1293-1305.   | 5.1 | 14        |
| 34 | 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       |
| 35 | Temporal lobe epilepsy. <i>Neurology</i> , 2019, 92, e2209-e2220.  | 1.1 | 80        |
| 36 | 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        |

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|----|---|-----|-----------|
| 37 | A connectome-based mechanistic model of focal cortical dysplasia. <i>Brain</i> , 2019, 142, 688-699.  | 7.6 | 38        |
| 38 | Developmental MRI markers cosegregate juvenile patients with myoclonic epilepsy and their healthy siblings. <i>Neurology</i> , 2019, 93, e1272-e1280.   | 1.1 | 35        |
| 39 | Predicting the Outcome of Surgical Interventions for Epilepsy Using Imaging Biomarkers. , 2019, , 169-180.  |     | 1         |
| 40 | Topographic principles of cortical fluidâ€attenuated inversion recovery signal in temporal lobe epilepsy. <i>Epilepsia</i> , 2018, 59, 627-635.  | 5.1 | 19        |
| 41 | Structural brain abnormalities in the common epilepsies assessed in a worldwide ENIGMA study. <i>Brain</i> , 2018, 141, 391-408.  | 7.6 | 352       |
| 42 | Histological and MRI markers of white matter damage in focal epilepsy. <i>Epilepsy Research</i> , 2018, 140, 29-38.   | 1.6 | 52        |
| 43 | 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        |
| 44 | Focal cortical malformations in children with early infantile epilepsy and <i><sc>PCDH</sc>19</i> mutations: case report. <i>Developmental Medicine and Child Neurology</i> , 2018, 60, 100-105.                      | 2.1 | 56        |
| 45 | Multimodal computational neocortical anatomy in pediatric hippocampal sclerosis. <i>Annals of Clinical and Translational Neurology</i> , 2018, 5, 1200-1210.  | 3.7 | 7         |
| 46 | Deep Convolutional Networks for Automated Detection of Epileptogenic Brain Malformations. <i>Lecture Notes in Computer Science</i> , 2018, , 490-497.   | 1.3 | 8         |
| 47 | 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       |
| 48 | Multi-Template Mesiotemporal Lobe Segmentation: Effects of Surface and Volume Feature Modeling. <i>Frontiers in Neuroinformatics</i> , 2018, 12, 39.  | 2.5 | 3         |
| 49 | Brain Morphometry: Epilepsy. <i>Neuroinformatics</i> , 2018, , 301-321.   | 0.3 | 1         |
| 50 | Multimodal MRI profiling of focal cortical dysplasia type II. <i>Neurology</i> , 2017, 88, 734-742.   | 1.1 | 78        |
| 51 | 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         |
| 52 | Connectome-based models of the epileptogenic network: a step towards epileptomics?. <i>Brain</i> , 2017, 140, 2525-2527.  | 7.6 | 19        |
| 53 | A meta-analysis on progressive atrophy in intractable temporal lobe epilepsy. <i>Neurology</i> , 2017, 89, 506-516.   | 1.1 | 118       |
| 54 | The spectrum of structural and functional network alterations in malformations of cortical development. <i>Brain</i> , 2017, 140, 2133-2143.  | 7.6 | 80        |

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|----|---|------|-----------|
| 55 | Automated Detection of Epileptogenic Cortical Malformations Using Multimodal MRI. Lecture Notes in Computer Science, 2017, , 349-356.   | 1.3  | 12        |
| 56 | Gray matter structural compromise is equally distributed in left and right temporal lobe epilepsy. Human Brain Mapping, 2016, 37, 515-524.  | 3.6  | 30        |
| 57 | In vivo <scp>MRI</scp> signatures of hippocampal subfield pathology in intractable epilepsy. Human Brain Mapping, 2016, 37, 1103-1119.  | 3.6  | 61        |
| 58 | The spectrum of structural and functional imaging abnormalities in temporal lobe epilepsy. Annals of Neurology, 2016, 80, 142-153.  | 5.3  | 116       |
| 59 | The superficial white matter in temporal lobe epilepsy: a key link between structural and functional network disruptions. Brain, 2016, 139, 2431-2440.  | 7.6  | 85        |
| 60 | Whole-brain MRI phenotyping in dysplasia-related frontal lobe epilepsy. Neurology, 2016, 86, 643-650.   | 1.1  | 75        |
| 61 | Subregional Mesiotemporal Network Topology Is Altered in Temporal Lobe Epilepsy. Cerebral Cortex, 2016, 26, 3237-3248.  | 2.9  | 40        |
| 62 | A Surface Patch-Based Segmentation Method for Hippocampal Subfields. Lecture Notes in Computer Science, 2016, , 379-387.  | 1.3  | 28        |
| 63 | Multi-contrast submillimetric 3â€™Tesla hippocampal subfield segmentation protocol and dataset. Scientific Data, 2015, 2, 150059.   | 5.3  | 70        |
| 64 | Accurate cortical tissue classification on <scp>MRI</scp> by modeling cortical folding patterns. Human Brain Mapping, 2015, 36, 3563-3574.  | 3.6  | 16        |
| 65 | Interictal Hippocampal Spiking Influences the Occurrence of Hippocampal Sleep Spindles. Sleep, 2015, 38, 1927-1933.   | 1.1  | 44        |
| 66 | Diagnostic methods and treatment options for focal cortical dysplasia. Epilepsia, 2015, 56, 1669-1686.  | 5.1  | 167       |
| 67 | Magnetic resonance imaging pattern learning in temporal lobe epilepsy: Classification and prognostics. Annals of Neurology, 2015, 77, 436-446.  | 5.3  | 120       |
| 68 | Functional network alterations and their structural substrate in drug-resistant epilepsy. Frontiers in Neuroscience, 2014, 8, 411.  | 2.8  | 64        |
| 69 | Imaging the epileptic brainâ€™time for new standards. Nature Reviews Neurology, 2014, 10, 133-134.  | 10.1 | 10        |
| 70 | Automated detection of cortical dysplasia type II in MRI-negative epilepsy. Neurology, 2014, 83, 48-55.   | 1.1  | 148       |
| 71 | International consensus classification of hippocampal sclerosis in temporal lobe epilepsy: A Task Force report from the <scp>ILAE</scp> Commission on Diagnostic Methods. Epilepsia, 2013, 54, 1315-1329. | 5.1  | 816       |
| 72 | Imaging structural and functional brain networks in temporal lobe epilepsy. Frontiers in Human Neuroscience, 2013, 7, 624.  | 2.0  | 185       |

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|----|--|------|-----------|
| 73 | Mapping thalamocortical network pathology in temporal lobe epilepsy. <i>Neurology</i> , 2012, 78, 129-136.   | 1.1  | 95        |
| 74 | Spatial patterns of water diffusion along white matter tracts in temporal lobe epilepsy. <i>Neurology</i> , 2012, 79, 455-462.   | 1.1  | 111       |
| 75 | Structural substrates for resting network disruption in temporal lobe epilepsy. <i>Brain</i> , 2012, 135, 2350-2357.   | 7.6  | 137       |
| 76 | Surface-based multi-template automated hippocampal segmentation: Application to temporal lobe epilepsy. <i>Medical Image Analysis</i> , 2012, 16, 1445-1455.                   | 11.6 | 25        |
| 77 | Advances in MRI for 'cryptogenic' epilepsies. <i>Nature Reviews Neurology</i> , 2011, 7, 99-108.   | 10.1 | 197       |
| 78 | Unveiling epileptogenic lesions: The contribution of image processing. <i>Epilepsia</i> , 2011, 52, 20-24.   | 5.1  | 24        |
| 79 | Cortical thickness analysis in temporal lobe epilepsy. <i>Neurology</i> , 2010, 74, 1776-1784.   | 1.1  | 193       |
| 80 | 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       |
| 81 | Surface-Based Texture and Morphological Analysis Detects Subtle Cortical Dysplasia. <i>Lecture Notes in Computer Science</i> , 2008, 11, 645-652.                              | 1.3  | 34        |
| 82 | Small focal cortical dysplasia lesions are located at the bottom of a deep sulcus. <i>Brain</i> , 2008, 131, 3246-3255.  | 7.6  | 179       |
| 83 | In Vivo Profiling of Focal Cortical Dysplasia on High-resolution MRI with Computational Models. <i>Epilepsia</i> , 2006, 47, 134-142.  | 5.1  | 48        |
| 84 | Magnetic resonance imaging in intractable epilepsy: focus on structural image analysis. <i>Advances in Neurology</i> , 2006, 97, 273-8.  | 0.8  | 9         |
| 85 | Quantitative MR imaging of the neocortex. <i>Neuroimaging Clinics of North America</i> , 2004, 14, 425-436.  | 1.0  | 18        |
| 86 | Quantitative analysis of temporal lobe white matter T2 relaxation time in temporal lobe epilepsy. <i>NeuroImage</i> , 2004, 23, 318-324.                                       | 4.2  | 60        |
| 87 | 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       |
| 88 | Advanced MRI analysis methods for detection of focal cortical dysplasia. <i>Epileptic Disorders</i> , 2003, 5 Suppl 2, S81-4.  | 1.3  | 6         |
| 89 | Computational Models of MRI Characteristics of Focal Cortical Dysplasia Improve Lesion Detection. <i>NeuroImage</i> , 2002, 17, 1755-1760.                                     | 4.2  | 67        |
| 90 | Structural Image Analysis in Epilepsy. <i>Epilepsia</i> , 2002, 43, 19-24.   | 5.1  | 4         |

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|----|--|-----|-----------|
| 91 | 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       |
| 92 | 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         |
| 93 | Hyperekplexia: genetics and culture-bound stimulus-induced disorders. , 2001, , 151-164.   |     | 0         |
| 94 | T2 Relaxometry Can Lateralize Mesial Temporal Lobe Epilepsy in Patients with Normal MRI. <i>NeuroImage</i> , 2000, 12, 739-746.  | 4.2 | 129       |
| 95 | 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        |
| 96 | EEG Background Delta Activity in Temporal Lobe Epilepsy: Correlation with Volumetric and Spectroscopic Imaging. <i>Epilepsia</i> , 1999, 40, 1580-1586.  | 5.1 | 13        |
| 97 | Celiac Disease, Bilateral Occipital Calcifications and Intractable Epilepsy: Mechanisms of Seizure Origin. <i>Epilepsia</i> , 1998, 39, 300-306.   | 5.1 | 16        |