Carmen Barba

List of Publications by Year
in descending order

117 papers	4,826 citations	136950 32 h-index	114465 63 g-index
125 all docs	125 docs citations	125 times ranked	5368 citing authors

#	Article	IF	Citations
1	A brain atlas of axonal and synaptic delays based on modelling of cortico-cortical evoked potentials. Brain, 2022, 145, 1653-1667.	7.6	34
2	Lateral versus vertical hemispheric disconnection for epilepsy: a systematic review and meta-analysis. Journal of Neurosurgery, 2022, 136, 1627-1637.	1.6	8
3	Atlas of lesion locations and postsurgical seizure freedom in focal cortical dysplasia: A MELD study. Epilepsia, 2022, 63, 61-74.	5.1	36
4	Surgical outcome of temporal plus epilepsy is improved by multilobar resection. Epilepsia, 2022, 63, 769-776.	5.1	4
5	Knowledge and attitudes of neurologists toward epilepsy surgery: an Italian survey. Neurological Sciences, 2022, 43, 4453-4461.	1.9	4
6	Phenotypic and genetic spectrum of ATP6V1A encephalopathy: a disorder of lysosomal homeostasis. Brain, 2022, 145, 2687-2703.	7.6	11
7	Networks Underlie Temporal Onset of Dysplasiaâ€Related Epilepsy: A <scp>MELD</scp> Study. Annals of Neurology, 2022, 92, 503-511.	5.3	7
8	Focal Cortical Dysplasia IIIa in Hippocampal Sclerosis-Associated Epilepsy: Anatomo-Electro-Clinical Profile and Surgical Results From a Multicentric Retrospective Study. Neurosurgery, 2021, 88, 384-393.	1.1	7
9	Temporal lobe epilepsy surgery in children and adults: A multicenter study. Epilepsia, 2021, 62, 128-142.	5.1	33
10	Is Focal Cortical Dysplasia/Epilepsy Caused by Somatic MTOR Mutations Always a Unilateral Disorder?. Neurology: Genetics, 2021, 7, e540.	1.9	26
11	Phenotypic Spectrum of Seizure Disorders in MBD5-Associated Neurodevelopmental Disorder. Neurology: Genetics, 2021, 7, e579.	1.9	8
12	Angiocentric glioma-associated seizures: The possible role of EATT2, pyruvate carboxylase and glutamine synthetase. Seizure: the Journal of the British Epilepsy Association, 2021, 86, 152-154.	2.0	8
13	Focal cortical dysplasia: an update on diagnosis and treatment. Expert Review of Neurotherapeutics, 2021, 21, 1213-1224.	2.8	21
14	The surgical treatment of epilepsy. Neurological Sciences, 2021, 42, 2249-2260.	1.9	18
15	ATP1A2- and ATP1A3-associated early profound epileptic encephalopathy and polymicrogyria. Brain, 2021, 144, 1435-1450.	7.6	35
16	Sub-genic intolerance, ClinVar, and the epilepsies: A whole-exome sequencing study of 29,165 individuals. American Journal of Human Genetics, 2021, 108, 965-982.	6.2	35
17	Pathogenic <scp>MAST3</scp> Variants in the <scp>STK</scp> Domain Are Associated with Epilepsy. Annals of Neurology, 2021, 90, 274-284.	5.3	7
18	Seizure outcome after epilepsy surgery in tuberous sclerosis complex: Results and analysis of predictors from a multicenter study. Journal of the Neurological Sciences, 2021, 427, 117506.	0.6	12

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19	Multicenter Validation of a Deep Learning Detection Algorithm for Focal Cortical Dysplasia. Neurology, 2021, 97, e1571-e1582.	1.1	39
20	Dysembryoplastic neuroepithelial tumors: A single-institutional series with special reference to glutamine synthetase expression. Annals of Diagnostic Pathology, 2021, 54, 151774.	1.3	1
21	Trends in pediatric epilepsy surgery in Europe between 2008 and 2015: Countryâ€, centerâ€, and ageâ€specific variation. Epilepsia, 2020, 61, 216-227.	5.1	44
22	Patterns and predictors of language representation and the influence of epilepsy surgery on language reorganization in children and young adults with focal lesional epilepsy. PLoS ONE, 2020, 15, e0238389.	2.5	3
23	Seizure outcome and use of antiepileptic drugs after epilepsy surgery according to histopathological diagnosis: a retrospective multicentre cohort study. Lancet Neurology, The, 2020, 19, 748-757.	10.2	177
24	Quantitative MRI-Based Analysis Identifies Developmental Limbic Abnormalities in PCDH19 Encephalopathy. Cerebral Cortex, 2020, 30, 6039-6050.	2.9	12
25	Somatic double-hit in MTOR and RPS6 in hemimegalencephaly with intractable epilepsy. Human Molecular Genetics, 2019, 28, 3755-3765.	2.9	42
26	Generalized epilepsies. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2019, 161, 3-15.	1.8	22
27	Automatic detection and sonification of nonmotor generalized onset epileptic seizures: Preliminary results. Brain Research, 2019, 1721, 146341.	2.2	16
28	Diagnostic implications of genetic copy number variation in epilepsy plus. Epilepsia, 2019, 60, 689-706.	5.1	61
29	Outcome after hemispherotomy in patients with intractable epilepsy: Comparison of techniques in the Italian experience. Epilepsy and Behavior, 2019, 93, 22-28.	1.7	30
30	Ultra-High-Field Targeted Imaging of Focal Cortical Dysplasia: The Intracortical Black Line Sign in Type IIb. American Journal of Neuroradiology, 2019, 40, 2137-2142.	2.4	16
31	CD34 Expression in Low-Grade Epilepsy-Associated Tumors: Relationships with Clinicopathologic Features. World Neurosurgery, 2019, 121, e761-e768.	1.3	14
32	Individualized prediction of seizure relapse and outcomes following antiepileptic drug withdrawal after pediatric epilepsy surgery. Epilepsia, 2018, 59, e28-e33.	5.1	23
33	Relationships Between Morphologic and Functional Patterns in the Polymicrogyric Cortex. Cerebral Cortex, 2018, 28, 1076-1086.	2.9	6
34	Detection of Hyperexcitability by Functional Magnetic Resonance Imaging after Experimental Traumatic Brain Injury. Journal of Neurotrauma, 2018, 35, 2708-2717.	3.4	22
35	Cognitive outcome after epilepsy surgery in children: A controlled longitudinal study. Epilepsy and Behavior, 2017, 73, 23-30.	1.7	24
36	Vagus nerve stimulation: Surgical technique of implantation and revision and related morbidity. Epilepsia, 2017, 58, 85-90.	5.1	145

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37	Histopathological Findings in Brain Tissue Obtained during Epilepsy Surgery. New England Journal of Medicine, 2017, 377, 1648-1656.	27.0	621
38	Increasing volume and complexity of pediatric epilepsy surgery with stable seizure outcome between 2008 and 2014: A nationwide multicenter study. Epilepsy and Behavior, 2017, 75, 151-157.	1.7	27
39	Epilepsy surgery of â€œlow grade epilepsy associated neuroepithelial tumorsâ€• A retrospective nationwide Italian study. Epilepsia, 2017, 58, 1832-1841.	5.1	41
40	The Insula in Temporal Plus Epilepsy. Journal of Clinical Neurophysiology, 2017, 34, 324-327.	1.7	30
41	Quality of life in persons after traumatic brain injury as self-perceived and as perceived by the caregivers. Neurological Sciences, 2017, 38, 279-286.	1.9	24
42	Diagnostic Targeted Resequencing in 349 Patients with Drug-Resistant Pediatric Epilepsies Identifies Causative Mutations in 30 Different Genes. Human Mutation, 2017, 38, 216-225.	2.5	152
43	Quality of life after brain injury (QOLIBRI): Italian validation of the proxy version. Internal and Emergency Medicine, 2017, 12, 187-198.	2.0	6
44	Unilobar surgery for symptomatic epileptic spasms. Annals of Clinical and Translational Neurology, 2017, 4, 36-45.	3.7	25
45	Congenital disorders of glycosylation presenting as epileptic encephalopathy with migrating partial seizures in infancy. Developmental Medicine and Child Neurology, 2016, 58, 1085-1091.	2.1	33
46	7T <scp>MRI</scp> in focal epilepsy with unrevealing conventional field strength imaging. Epilepsia, 2016, 57, 445-454.	5.1	128
47	Reply: Determinants of epilepsy surgery failure: aetiology matters. Brain, 2016, 139, e38-e38.	7.6	0
48	Bowel function and quality of life after local excision or total mesorectal excision following chemoradiotherapy for rectal cancer. British Journal of Surgery, 2016, 104, 138-147.	0.3	42
49	Symptomatic and presumed symptomatic focal epilepsies in childhood: An observational, prospective multicentre study. Epilepsia, 2016, 57, 1808-1816.	5.1	9
50	Epilepsy in ring chromosome 20 syndrome. Epilepsy Research, 2016, 128, 83-93.	1.6	30
51	Reply: Temporal plus epilepsy is a major determinant of temporal lobe surgery failures. Brain, 2016, 139, e36-e36.	7.6	4
52	Mutations in the mammalian target of rapamycin pathway regulators NPRL2 and NPRL3 cause focal epilepsy. Annals of Neurology, 2016, 79, 120-131.	5.3	190
53	The syndrome of polymicrogyria, thalamic hypoplasia, and epilepsy with CSWS. Neurology, 2016, 86, 1250-1259.	1.1	19
54	Temporal plus epilepsy is a major determinant of temporal lobe surgery failures. Brain, 2016, 139, 444-451.	7.6	164

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55	Diagnostic methods and treatment options for focal cortical dysplasia. Epilepsia, 2015, 56, 1669-1686.	5.1	167
56	The concept of temporal â€˜plusâ€™ epilepsy. Revue Neurologique, 2015, 171, 267-272.	1.5	38
57	Vertical extraventricular functional hemispherotomy: a new variant for hemispheric disconnection. Technical notes and results in three patients. Child's Nervous System, 2015, 31, 2151-2160.	1.1	12
58	Intelligence quotient improves after antiepileptic drug withdrawal following pediatric epilepsy surgery. Annals of Neurology, 2015, 78, 104-114.	5.3	97
59	Ultra-High-Field MR Imaging in Polymicrogyria and Epilepsy. American Journal of Neuroradiology, 2015, 36, 309-316.	2.4	100
60	Focal dysplasia of the cerebral cortex and infantile spasms associated with somatic 1q21.1â€q44 duplication including the <scp>AKT3</scp> gene. Clinical Genetics, 2015, 88, 241-247.	2.0	60
61	Early Diagnosis and Monitoring of Neurodegenerative Langerhans Cell Histiocytosis. PLoS ONE, 2015, 10, e0131635.	2.5	13
62	Expression of glutamine synthetase in balloon cells: a basis of their antiepileptic role?. , 2015, 34, 83-88.		6
63	Optimizing the molecular diagnosis of <scp>CDKL</scp>5 geneâ€“related epileptic encephalopathy in boys. Epilepsia, 2014, 55, 1748-1753.	5.1	23
64	Coâ€occurring malformations of cortical development and <scp>SCN</scp>1A gene mutations. Epilepsia, 2014, 55, 1009-1019.	5.1	84
65	Time to relapse after epilepsy surgery in children: AED withdrawal policies are a contributing factor. Epileptic Disorders, 2014, 16, 305-311.	1.3	5
66	Tissue Border Enhancement by inversion recovery MRI at 7.0 Tesla. Neuroradiology, 2014, 56, 517-523.	2.2	14
67	Health-related quality of life after traumatic brain injury: Italian validation of the QOLIBRI. Functional Neurology, 2014, 29, 167-76.	1.3	11
68	A quick method for identifying radiolytic hydrocarbons in lowâ€fatâ€containing food. Journal of the Science of Food and Agriculture, 2013, 93, 479-484.	3.5	4
69	Epilepsy surgery in Neurofibromatosis Type 1. Epilepsy Research, 2013, 105, 384-395.	1.6	44
70	The medical and surgical treatment of tumoral seizures: Current and future perspectives. Epilepsia, 2013, 54, 84-90.	5.1	30
71	Making Memories: The Development of Long-Term Visual Knowledge in Children with Visual Agnosia. Neural Plasticity, 2013, 2013, 1-11.	2.2	3
72	Focal cortical dysplasia type IIb in the rolandic cortex: Functional reorganization after early surgery documented by passive task functional MRI. Epilepsia, 2012, 53, e141-5.	5.1	22

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73	Diagnostic yield and predictive value of provoked ictal SPECT in drug-resistant epilepsies. Journal of Neurology, 2012, 259, 1613-1622.	3.6	14
74	Timing of antiepileptic drug withdrawal and long-term seizure outcome after paediatric epilepsy surgery (TimeToStop): a retrospective observational study. Lancet Neurology, The, 2012, 11, 784-791.	10.2	115
75	Impaired object identification in idiopathic childhood occipital epilepsy. Epilepsia, 2012, 53, 686-694.	5.1	7
76	Polymicrogyria and schizencephaly. , 2011, , 311-321.		1
77	Intrinsic epileptogenicity of gangliogliomas may be independent from co-occurring focal cortical dysplasia. Epilepsy Research, 2011, 97, 208-213.	1.6	31
78	Malformations of Cortical Development and Aberrant Cortical Networks: Epileptogenesis and Functional Organization. Journal of Clinical Neurophysiology, 2010, 27, 372-379.	1.7	50
79	An integrated fMRI, SEPs and MEPs approach for assessing functional organization in the malformed sensorimotor cortex. Epilepsy Research, 2010, 89, 66-71.	1.6	7
80	Metacognitive unawareness correlates with executive function impairment after severe traumatic brain injury. Journal of the International Neuropsychological Society, 2010, 16, 360-368.	1.8	72
81	Provoked ictal SPECT in temporal and extratemporal drug-resistant epileptic patients: Comparison of Statistical Parametric Mapping and qualitative analysis. Epilepsy Research, 2009, 84, 6-14.	1.6	7
82	Detection of radiolytic hydrocarbons by supercritical fluid extraction and gas chromatographicâ€“mass spectrometric analysis of irradiated cheese. Food Chemistry, 2009, 114, 1517-1522.	8.2	12
83	New depth short-latency somatosensory evoked potential (SEP) component recorded in human SI area. Neuroscience Letters, 2008, 432, 179-183.	2.1	11
84	Executive function and metacognitive self-awareness after Severe Traumatic Brain Injury. Journal of the International Neuropsychological Society, 2008, 14, 862-868.	1.8	91
85	Unpleasant auditory illusions and related avoidance behaviour in a child. Epileptic Disorders, 2008, 10, 35-38.	1.3	1
86	Ictal clinical and scalp-EEG findings differentiating temporal lobe epilepsies from temporal 'plus' epilepsies. Brain, 2007, 130, 1957-1967.	7.6	249
87	High-frequency ECoG oscillations in the site of onset of epileptic seizures during sleep. Sleep Medicine, 2007, 8, 96-97.	1.6	6
88	Multimodal fMRI tractography in normal subjects and in clinically recovered traumatic brain injury patients. NeuroImage, 2007, 34, 1331-1341.	4.2	27
89	The impact of prophylactic treatment on post-traumatic epilepsy after severe traumatic brain injury. Brain Injury, 2007, 21, 499-504.	1.2	24
90	Correlation between Provoked Ictal SPECT and Depth Recordings in Adult Drug-Resistant Epilepsy Patients. Epilepsia, 2007, 48, 278-285.	5.1	26

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91	Transient MRI Abnormalities in a Case of Occipital Lobe Epilepsy with Favorable Outcome. Clinical EEG and Neuroscience, 2006, 37, 219-222.	1.7	1
92	Dysfunction of a Structurally Normal Motor Pathway in a Brain Injury Patient as Revealed by Multimodal Integrated Techniques. Neurocase, 2006, 12, 232-235.	0.6	5
93	Seizure suppression after left anterior temporal lobectomy in a patient with an ipsilateral parietal lesion. European Journal of Neurology, 2005, 12, 75-76.	3.3	1
94	Retrospective analysis of variables favouring good surgical outcome in posterior epilepsies. Journal of Neurology, 2005, 252, 465-472.	3.6	22
95	Short and middle-latency Median Nerve (MN) SEPs recorded by depth electrodes in human pre-SMA and SMA-proper. Clinical Neurophysiology, 2005, 116, 2664-2674.	1.5	33
96	Unusual ipsilateral hyperkinetic automatisms in SMA seizures. Seizure: the Journal of the British Epilepsy Association, 2005, 14, 354-361.	2.0	7
97	Effects of vagus nerve stimulation on cortical excitability in epileptic patients. Neurology, 2004, 62, 2310-2312.	1.1	74
98	Different neuronal contribution to N20 somatosensory evoked potential and to CO2 laser evoked potentials: an intracerebral recording study. Clinical Neurophysiology, 2004, 115, 211-216.	1.5	38
99	Assessing somatosensory evoked potential (SEP) generators by human intracranial recordings. Clinical Neurophysiology, 2004, 115, 488.	1.5	8
100	Parietal generators of low- and high-frequency MN (median nerve) SEPs: data from intracortical human recordings. Clinical Neurophysiology, 2004, 115, 647-657.	1.5	16
101	Abnormal gating of somatosensory inputs in essential tremor. Clinical Neurophysiology, 2003, 114, 120-129.	1.5	27
102	The human supplementary motor area-proper does not receive direct somatosensory inputs from the periphery: data from stereotactic depth somatosensory evoked potential recordings. Neuroscience Letters, 2003, 344, 161-164.	2.1	21
103	Distinct fronto-central N60 and supra-sylvian N70 middle-latency components of the median nerve SEPs as assessed by scalp topographic analysis, dipolar source modelling and depth recordings. Clinical Neurophysiology, 2002, 113, 981-992.	1.5	31
104	Early secondary somatosensory area (SII) SEPs. Data from intracerebral recordings in humans. Clinical Neurophysiology, 2002, 113, 1778-1786.	1.5	29
105	Modality-related scalp responses after electrical stimulation of cutaneous and muscular upper limb afferents in humans. Muscle and Nerve, 2002, 26, 44-54.	2.2	20
106	Stereotactic recordings of median nerve somatosensory-evoked potentials in the human pre-supplementary motor area. European Journal of Neuroscience, 2001, 13, 347-356.	2.6	49
107	Functional changes of the primary somatosensory cortex in patients with unilateral cerebellar lesions. Brain, 2001, 124, 757-768.	7.6	74
108	Central scalp projection of the N30 SEP source activity after median nerve stimulation. , 2000, 23, 353-360.		21

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109	Somatosensory evoked potentials after multisegmental lower limb stimulation in focal lesions of the lumbosacral spinal cord. Journal of Neurology, Neurosurgery and Psychiatry, 2000, 69, 91-95.	1.9	9
110	Scalp distribution of the earliest cortical somatosensory evoked potential to tibial nerve stimulation: proposal of a new recording montage. Clinical Neurophysiology, 2000, 111, 1469-1477.	1.5	13
111	Sources of cortical responses to painful CO 2 laser skin stimulation of the hand and foot in the human brain. Clinical Neurophysiology, 2000, 111, 1103-1112.	1.5	125
112	Different contribution of joint and cutaneous inputs to early scalp somatosensory evoked potentials. , 1999, 22, 910-919.		18
113	Dipolar sources of the early scalp somatosensory evoked potentials to upper limb stimulation. Experimental Brain Research, 1998, 120, 306-315.	1.5	60
114	Dissociation induced by voluntary movement between two different components of the centro-parietal P40 SEP to tibial nerve stimulation. Electroencephalography and Clinical Neurophysiology - Evoked Potentials, 1998, 108, 190-198.	2.0	21
115	The scalp to earlobe montage as standard in routine SEP recording. Comparison with the non-cephalic reference in patients with lesions of the upper cervical cord. Electroencephalography and Clinical Neurophysiology - Evoked Potentials, 1998, 108, 414-422.	2.0	14
116	Dipolar generators of the early scalp somatosensory evoked potentials to tibial nerve stimulation in human subjects. Neuroscience Letters, 1997, 238, 49-52.	2.1	25
117	Abnormalities of somatosensory and motor evoked potentials in adrenomyeloneuropathy: Comparison with magnetic resonance imaging and clinical findings. , 1997, 20, 1249-1257.		13