

# Carmen Barba

## List of Publications by Year in descending order

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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	Histopathological Findings in Brain Tissue Obtained during Epilepsy Surgery. <i>New England Journal of Medicine</i> , 2017, 377, 1648-1656.	27.0	621
2	Ictal clinical and scalp-EEG findings differentiating temporal lobe epilepsies from temporal 'plus' epilepsies. <i>Brain</i> , 2007, 130, 1957-1967.	7.6	249
3	Mutations in the mammalian target of rapamycin pathway regulators <i>NPRL2</i> and <i>NPRL3</i> cause focal epilepsy. <i>Annals of Neurology</i> , 2016, 79, 120-131.	5.3	190
4	Seizure outcome and use of antiepileptic drugs after epilepsy surgery according to histopathological diagnosis: a retrospective multicentre cohort study. <i>Lancet Neurology</i> , The, 2020, 19, 748-757.	10.2	177
5	Diagnostic methods and treatment options for focal cortical dysplasia. <i>Epilepsia</i> , 2015, 56, 1669-1686.	5.1	167
6	Temporal plus epilepsy is a major determinant of temporal lobe surgery failures. <i>Brain</i> , 2016, 139, 444-451.	7.6	164
7	Diagnostic Targeted Resequencing in 349 Patients with Drug-Resistant Pediatric Epilepsies Identifies Causative Mutations in 30 Different Genes. <i>Human Mutation</i> , 2017, 38, 216-225.	2.5	152
8	Vagus nerve stimulation: Surgical technique of implantation and revision and related morbidity. <i>Epilepsia</i> , 2017, 58, 85-90.	5.1	145
9	7T <sup>sc</sup> MRI in focal epilepsy with unrevealing conventional field strength imaging. <i>Epilepsia</i> , 2016, 57, 445-454.	5.1	128
10	Sources of cortical responses to painful CO <sub>2</sub> laser skin stimulation of the hand and foot in the human brain. <i>Clinical Neurophysiology</i> , 2000, 111, 1103-1112.	1.5	125
11	Timing of antiepileptic drug withdrawal and long-term seizure outcome after paediatric epilepsy surgery (TimeToStop): a retrospective observational study. <i>Lancet Neurology</i> , The, 2012, 11, 784-791.	10.2	115
12	Ultra-High-Field MR Imaging in Polymicrogyria and Epilepsy. <i>American Journal of Neuroradiology</i> , 2015, 36, 309-316.	2.4	100
13	Intelligence quotient improves after antiepileptic drug withdrawal following pediatric epilepsy surgery. <i>Annals of Neurology</i> , 2015, 78, 104-114.	5.3	97
14	Executive function and metacognitive self-awareness after Severe Traumatic Brain Injury. <i>Journal of the International Neuropsychological Society</i> , 2008, 14, 862-868.	1.8	91
15	Co-occurring malformations of cortical development and <i>SCN1A</i> gene mutations. <i>Epilepsia</i> , 2014, 55, 1009-1019.	5.1	84
16	Functional changes of the primary somatosensory cortex in patients with unilateral cerebellar lesions. <i>Brain</i> , 2001, 124, 757-768.	7.6	74
17	Effects of vagus nerve stimulation on cortical excitability in epileptic patients. <i>Neurology</i> , 2004, 62, 2310-2312.	1.1	74
18	Metacognitive unawareness correlates with executive function impairment after severe traumatic brain injury. <i>Journal of the International Neuropsychological Society</i> , 2010, 16, 360-368.	1.8	72

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19	Diagnostic implications of genetic copy number variation in epilepsy plus. <i>Epilepsia</i> , 2019, 60, 689-706.	5.1	61
20	Dipolar sources of the early scalp somatosensory evoked potentials to upper limb stimulation. <i>Experimental Brain Research</i> , 1998, 120, 306-315.	1.5	60
21	Focal dysplasia of the cerebral cortex and infantile spasms associated with somatic 1q21.1â€“q44 duplication including the <i><sc>AKT3</sc></i> gene. <i>Clinical Genetics</i> , 2015, 88, 241-247.	2.0	60
22	Malformations of Cortical Development and Aberrant Cortical Networks: Epileptogenesis and Functional Organization. <i>Journal of Clinical Neurophysiology</i> , 2010, 27, 372-379.	1.7	50
23	Stereotactic recordings of median nerve somatosensory-evoked potentials in the human pre-supplementary motor area. <i>European Journal of Neuroscience</i> , 2001, 13, 347-356.	2.6	49
24	Epilepsy surgery in Neurofibromatosis Type 1. <i>Epilepsy Research</i> , 2013, 105, 384-395.	1.6	44
25	Trends in pediatric epilepsy surgery in Europe between 2008 and 2015: Countryâ€“, centerâ€“, and ageâ€“specific variation. <i>Epilepsia</i> , 2020, 61, 216-227.	5.1	44
26	Bowel function and quality of life after local excision or total mesorectal excision following chemoradiotherapy for rectal cancer. <i>British Journal of Surgery</i> , 2016, 104, 138-147.	0.3	42
27	Somatic double-hit in MTOR and RPS6 in hemimegalencephaly with intractable epilepsy. <i>Human Molecular Genetics</i> , 2019, 28, 3755-3765.	2.9	42
28	Epilepsy surgery of â€œlow grade epilepsy associated neuroepithelial tumorsâ€“ A retrospective nationwide Italian study. <i>Epilepsia</i> , 2017, 58, 1832-1841.	5.1	41
29	Multicenter Validation of a Deep Learning Detection Algorithm for Focal Cortical Dysplasia. <i>Neurology</i> , 2021, 97, e1571-e1582.	1.1	39
30	Different neuronal contribution to N20 somatosensory evoked potential and to CO2 laser evoked potentials: an intracerebral recording study. <i>Clinical Neurophysiology</i> , 2004, 115, 211-216.	1.5	38
31	The concept of temporal â€“plusâ€“™ epilepsy. <i>Revue Neurologique</i> , 2015, 171, 267-272.	1.5	38
32	Atlas of lesion locations and postsurgical seizure freedom in focal cortical dysplasia: A MELD study. <i>Epilepsia</i> , 2022, 63, 61-74.	5.1	36
33	<i>ATP1A2</i> and <i>ATP1A3</i> associated early profound epileptic encephalopathy and polymicrogyria. <i>Brain</i> , 2021, 144, 1435-1450.	7.6	35
34	Sub-genic intolerance, ClinVar, and the epilepsies: A whole-exome sequencing study of 29,165 individuals. <i>American Journal of Human Genetics</i> , 2021, 108, 965-982.	6.2	35
35	A brain atlas of axonal and synaptic delays based on modelling of cortico-cortical evoked potentials. <i>Brain</i> , 2022, 145, 1653-1667.	7.6	34
36	Short and middle-latency Median Nerve (MN) SEPs recorded by depth electrodes in human pre-SMA and SMA-proper. <i>Clinical Neurophysiology</i> , 2005, 116, 2664-2674.	1.5	33

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37	Congenital disorders of glycosylation presenting as epileptic encephalopathy with migrating partial seizures in infancy. <i>Developmental Medicine and Child Neurology</i> , 2016, 58, 1085-1091.	2.1	33
38	Temporal lobe epilepsy surgery in children and adults: A multicenter study. <i>Epilepsia</i> , 2021, 62, 128-142.	5.1	33
39	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. <i>Clinical Neurophysiology</i> , 2002, 113, 981-992.	1.5	31
40	Intrinsic epileptogenicity of gangliogliomas may be independent from co-occurring focal cortical dysplasia. <i>Epilepsy Research</i> , 2011, 97, 208-213.	1.6	31
41	The medical and surgical treatment of tumoral seizures: Current and future perspectives. <i>Epilepsia</i> , 2013, 54, 84-90.	5.1	30
42	Epilepsy in ring chromosome 20 syndrome. <i>Epilepsy Research</i> , 2016, 128, 83-93.	1.6	30
43	The Insula in Temporal Plus Epilepsy. <i>Journal of Clinical Neurophysiology</i> , 2017, 34, 324-327.	1.7	30
44	Outcome after hemispherotomy in patients with intractable epilepsy: Comparison of techniques in the Italian experience. <i>Epilepsy and Behavior</i> , 2019, 93, 22-28.	1.7	30
45	Early secondary somatosensory area (SII) SEPs. Data from intracerebral recordings in humans. <i>Clinical Neurophysiology</i> , 2002, 113, 1778-1786.	1.5	29
46	Abnormal gating of somatosensory inputs in essential tremor. <i>Clinical Neurophysiology</i> , 2003, 114, 120-129.	1.5	27
47	Multimodal fMRI tractography in normal subjects and in clinically recovered traumatic brain injury patients. <i>NeuroImage</i> , 2007, 34, 1331-1341.	4.2	27
48	Increasing volume and complexity of pediatric epilepsy surgery with stable seizure outcome between 2008 and 2014: A nationwide multicenter study. <i>Epilepsy and Behavior</i> , 2017, 75, 151-157.	1.7	27
49	Correlation between Provoked Ictal SPECT and Depth Recordings in Adult Drug-Resistant Epilepsy Patients. <i>Epilepsia</i> , 2007, 48, 278-285.	5.1	26
50	Is Focal Cortical Dysplasia/Epilepsy Caused by Somatic <i>MTOR</i> Mutations Always a Unilateral Disorder?. <i>Neurology: Genetics</i> , 2021, 7, e540.	1.9	26
51	Dipolar generators of the early scalp somatosensory evoked potentials to tibial nerve stimulation in human subjects. <i>Neuroscience Letters</i> , 1997, 238, 49-52.	2.1	25
52	Unilobar surgery for symptomatic epileptic spasms. <i>Annals of Clinical and Translational Neurology</i> , 2017, 4, 36-45.	3.7	25
53	The impact of prophylactic treatment on post-traumatic epilepsy after severe traumatic brain injury. <i>Brain Injury</i> , 2007, 21, 499-504.	1.2	24
54	Cognitive outcome after epilepsy surgery in children: A controlled longitudinal study. <i>Epilepsy and Behavior</i> , 2017, 73, 23-30.	1.7	24

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55	Quality of life in persons after traumatic brain injury as self-perceived and as perceived by the caregivers. <i>Neurological Sciences</i> , 2017, 38, 279-286.	1.9	24
56	Optimizing the molecular diagnosis of <i>CDKL5</i> gene-related epileptic encephalopathy in boys. <i>Epilepsia</i> , 2014, 55, 1748-1753.	5.1	23
57	Individualized prediction of seizure relapse and outcomes following antiepileptic drug withdrawal after pediatric epilepsy surgery. <i>Epilepsia</i> , 2018, 59, e28-e33.	5.1	23
58	Retrospective analysis of variables favouring good surgical outcome in posterior epilepsies. <i>Journal of Neurology</i> , 2005, 252, 465-472.	3.6	22
59	Focal cortical dysplasia type IIb in the rolandic cortex: Functional reorganization after early surgery documented by passive task functional MRI. <i>Epilepsia</i> , 2012, 53, e141-5.	5.1	22
60	Detection of Hyperexcitability by Functional Magnetic Resonance Imaging after Experimental Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2018, 35, 2708-2717.	3.4	22
61	Generalized epilepsies. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2019, 161, 3-15.	1.8	22
62	Dissociation induced by voluntary movement between two different components of the centro-parietal P40 SEP to tibial nerve stimulation. <i>Electroencephalography and Clinical Neurophysiology - Evoked Potentials</i> , 1998, 108, 190-198.	2.0	21
63	Central scalp projection of the N30 SEP source activity after median nerve stimulation. , 2000, 23, 353-360.		21
64	The human supplementary motor area-proper does not receive direct somatosensory inputs from the periphery: data from stereotactic depth somatosensory evoked potential recordings. <i>Neuroscience Letters</i> , 2003, 344, 161-164.	2.1	21
65	Focal cortical dysplasia: an update on diagnosis and treatment. <i>Expert Review of Neurotherapeutics</i> , 2021, 21, 1213-1224.	2.8	21
66	Modality-related scalp responses after electrical stimulation of cutaneous and muscular upper limb afferents in humans. <i>Muscle and Nerve</i> , 2002, 26, 44-54.	2.2	20
67	The syndrome of polymicrogyria, thalamic hypoplasia, and epilepsy with CSWS. <i>Neurology</i> , 2016, 86, 1250-1259.	1.1	19
68	Different contribution of joint and cutaneous inputs to early scalp somatosensory evoked potentials. , 1999, 22, 910-919.		18
69	The surgical treatment of epilepsy. <i>Neurological Sciences</i> , 2021, 42, 2249-2260.	1.9	18
70	Parietal generators of low- and high-frequency MN (median nerve) SEPs: data from intracortical human recordings. <i>Clinical Neurophysiology</i> , 2004, 115, 647-657.	1.5	16
71	Automatic detection and sonification of nonmotor generalized onset epileptic seizures: Preliminary results. <i>Brain Research</i> , 2019, 1721, 146341.	2.2	16
72	Ultra-High-Field Targeted Imaging of Focal Cortical Dysplasia: The Intracortical Black Line Sign in Type IIb. <i>American Journal of Neuroradiology</i> , 2019, 40, 2137-2142.	2.4	16

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73	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. <i>Electroencephalography and Clinical Neurophysiology - Evoked Potentials</i> , 1998, 108, 414-422.	2.0	14
74	Diagnostic yield and predictive value of provoked ictal SPECT in drug-resistant epilepsies. <i>Journal of Neurology</i> , 2012, 259, 1613-1622.	3.6	14
75	Tissue Border Enhancement by inversion recovery MRI at 7.0 Tesla. <i>Neuroradiology</i> , 2014, 56, 517-523.	2.2	14
76	CD34 Expression in Low-Grade Epilepsy-Associated Tumors: Relationships with Clinicopathologic Features. <i>World Neurosurgery</i> , 2019, 121, e761-e768.	1.3	14
77	Abnormalities of somatosensory and motor evoked potentials in adrenomyeloneuropathy: Comparison with magnetic resonance imaging and clinical findings. , 1997, 20, 1249-1257.		13
78	Scalp distribution of the earliest cortical somatosensory evoked potential to tibial nerve stimulation: proposal of a new recording montage. <i>Clinical Neurophysiology</i> , 2000, 111, 1469-1477.	1.5	13
79	Early Diagnosis and Monitoring of Neurodegenerative Langerhans Cell Histiocytosis. <i>PLoS ONE</i> , 2015, 10, e0131635.	2.5	13
80	Detection of radiolytic hydrocarbons by supercritical fluid extraction and gas chromatographic mass spectrometric analysis of irradiated cheese. <i>Food Chemistry</i> , 2009, 114, 1517-1522.	8.2	12
81	Vertical extraventricular functional hemispherotomy: a new variant for hemispheric disconnection. Technical notes and results in three patients. <i>Child's Nervous System</i> , 2015, 31, 2151-2160.	1.1	12
82	Quantitative MRI-Based Analysis Identifies Developmental Limbic Abnormalities in <i>PCDH19</i> Encephalopathy. <i>Cerebral Cortex</i> , 2020, 30, 6039-6050.	2.9	12
83	Seizure outcome after epilepsy surgery in tuberous sclerosis complex: Results and analysis of predictors from a multicenter study. <i>Journal of the Neurological Sciences</i> , 2021, 427, 117506.	0.6	12
84	New depth short-latency somatosensory evoked potential (SEP) component recorded in human SI area. <i>Neuroscience Letters</i> , 2008, 432, 179-183.	2.1	11
85	Health-related quality of life after traumatic brain injury: Italian validation of the QOLIBRI. <i>Functional Neurology</i> , 2014, 29, 167-76.	1.3	11
86	Phenotypic and genetic spectrum of ATP6V1A encephalopathy: a disorder of lysosomal homeostasis. <i>Brain</i> , 2022, 145, 2687-2703.	7.6	11
87	Somatosensory evoked potentials after multisegmental lower limb stimulation in focal lesions of the lumbosacral spinal cord. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2000, 69, 91-95.	1.9	9
88	Symptomatic and presumed symptomatic focal epilepsies in childhood: An observational, prospective multicentre study. <i>Epilepsia</i> , 2016, 57, 1808-1816.	5.1	9
89	Assessing somatosensory evoked potential (SEP) generators by human intracranial recordings. <i>Clinical Neurophysiology</i> , 2004, 115, 488.	1.5	8
90	Phenotypic Spectrum of Seizure Disorders in MBD5-Associated Neurodevelopmental Disorder. <i>Neurology: Genetics</i> , 2021, 7, e579.	1.9	8

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91	Angiocentric glioma-associated seizures: The possible role of EAT2, pyruvate carboxylase and glutamine synthetase. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2021, 86, 152-154.	2.0	8
92	Lateral versus vertical hemispheric disconnection for epilepsy: a systematic review and meta-analysis. <i>Journal of Neurosurgery</i> , 2022, 136, 1627-1637.	1.6	8
93	Unusual ipsilateral hyperkinetic automatisms in SMA seizures. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2005, 14, 354-361.	2.0	7
94	Provoked ictal SPECT in temporal and extratemporal drug-resistant epileptic patients: Comparison of Statistical Parametric Mapping and qualitative analysis. <i>Epilepsy Research</i> , 2009, 84, 6-14.	1.6	7
95	An integrated fMRI, SEPs and MEPs approach for assessing functional organization in the malformed sensorimotor cortex. <i>Epilepsy Research</i> , 2010, 89, 66-71.	1.6	7
96	Impaired object identification in idiopathic childhood occipital epilepsy. <i>Epilepsia</i> , 2012, 53, 686-694.	5.1	7
97	Focal Cortical Dysplasia IIIa in Hippocampal Sclerosis-Associated Epilepsy: Anatomico-Electro-Clinical Profile and Surgical Results From a Multicentric Retrospective Study. <i>Neurosurgery</i> , 2021, 88, 384-393.	1.1	7
98	Pathogenic <i>MAST3</i> Variants in the <i>STK</i> Domain Are Associated with Epilepsy. <i>Annals of Neurology</i> , 2021, 90, 274-284.	5.3	7
99	Networks Underlie Temporal Onset of Dysplasia-Related Epilepsy: A <i>MELD</i> Study. <i>Annals of Neurology</i> , 2022, 92, 503-511.	5.3	7
100	High-frequency ECoG oscillations in the site of onset of epileptic seizures during sleep. <i>Sleep Medicine</i> , 2007, 8, 96-97.	1.6	6
101	Quality of life after brain injury (QOLIBRI): Italian validation of the proxy version. <i>Internal and Emergency Medicine</i> , 2017, 12, 187-198.	2.0	6
102	Relationships Between Morphologic and Functional Patterns in the Polymicrogyric Cortex. <i>Cerebral Cortex</i> , 2018, 28, 1076-1086.	2.9	6
103	Expression of glutamine synthetase in balloon cells: a basis of their antiepileptic role?. , 2015, 34, 83-88.		6
104	Dysfunction of a Structurally Normal Motor Pathway in a Brain Injury Patient as Revealed by Multimodal Integrated Techniques. <i>Neurocase</i> , 2006, 12, 232-235.	0.6	5
105	Time to relapse after epilepsy surgery in children: AED withdrawal policies are a contributing factor. <i>Epileptic Disorders</i> , 2014, 16, 305-311.	1.3	5
106	A quick method for identifying radiolytic hydrocarbons in low-fat-containing food. <i>Journal of the Science of Food and Agriculture</i> , 2013, 93, 479-484.	3.5	4
107	Reply: Temporal plus epilepsy is a major determinant of temporal lobe surgery failures. <i>Brain</i> , 2016, 139, e36-e36.	7.6	4
108	Surgical outcome of temporal plus epilepsy is improved by multilobar resection. <i>Epilepsia</i> , 2022, 63, 769-776.	5.1	4

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109	Knowledge and attitudes of neurologists toward epilepsy surgery: an Italian survey. <i>Neurological Sciences</i> , 2022, 43, 4453-4461.	1.9	4
110	Making Memories: The Development of Long-Term Visual Knowledge in Children with Visual Agnosia. <i>Neural Plasticity</i> , 2013, 2013, 1-11.	2.2	3
111	Patterns and predictors of language representation and the influence of epilepsy surgery on language reorganization in children and young adults with focal lesional epilepsy. <i>PLoS ONE</i> , 2020, 15, e0238389.	2.5	3
112	Seizure suppression after left anterior temporal lobectomy in a patient with an ipsilateral parietal lesion. <i>European Journal of Neurology</i> , 2005, 12, 75-76.	3.3	1
113	Transient MRI Abnormalities in a Case of Occipital Lobe Epilepsy with Favorable Outcome. <i>Clinical EEG and Neuroscience</i> , 2006, 37, 219-222.	1.7	1
114	Polymicrogyria and schizencephaly. , 2011, , 311-321.		1
115	Dysembryoplastic neuroepithelial tumors: A single-institutional series with special reference to glutamine synthetase expression. <i>Annals of Diagnostic Pathology</i> , 2021, 54, 151774.	1.3	1
116	Unpleasant auditory illusions and related avoidance behaviour in a child. <i>Epileptic Disorders</i> , 2008, 10, 35-38.	1.3	1
117	Reply: Determinants of epilepsy surgery failure: aetiology matters. <i>Brain</i> , 2016, 139, e38-e38.	7.6	0