

Francesco Cardinale

List of Publications by Year in descending order

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119
papers

5,746
citations

71102

41
h-index

85541

71
g-index

127
all docs

127
docs citations

127
times ranked

4333
citing authors

#	ARTICLE	IF	CITATIONS
1	Focal cortical dysplasia: neuropathological subtypes, EEG, neuroimaging and surgical outcome. Brain, 2002, 125, 1719-1732.	7.6	557
2	Stereoelectroencephalography. Neurosurgery, 2013, 72, 353-366.	1.1	451
3	Stereoelectroencephalography in the Presurgical Evaluation of Focal Epilepsy: A Retrospective Analysis of 215 Procedures. Neurosurgery, 2005, 57, 706-718.	1.1	279
4	Motor and emotional behaviours elicited by electrical stimulation of the human cingulate cortex. Brain, 2018, 141, 3035-3051.	7.6	176
5	Surgical treatment of drug-resistant nocturnal frontal lobe epilepsy. Brain, 2007, 130, 561-573.	7.6	158
6	Epilepsy Surgery in Children: Results and Predictors of Outcome on Seizures. Epilepsia, 2008, 49, 65-72.	5.1	139
7	Dissociated wake-like and sleep-like electro-cortical activity during sleep. Neurolmage, 2011, 58, 612-619.	4.2	139
8	Validation of FreeSurfer-Estimated Brain Cortical Thickness: Comparison with Histologic Measurements. Neuroinformatics, 2014, 12, 535-542.	2.8	137
9	Focal cortical dysplasia type IIa and IIb: MRI aspects in 118 cases proven by histopathology. Neuroradiology, 2012, 54, 1065-1077.	2.2	132
10	Stereoelectroencephalography-guided radiofrequency thermocoagulation in the epileptogenic zone: a retrospective study on 89 cases. Journal of Neurosurgery, 2015, 123, 1358-1367.	1.6	122
11	Coupling of minor motor events and epileptiform discharges with arousal fluctuations in NFLE. Epilepsia, 2008, 49, 670-676.	5.1	121
12	Sleep-related hyperkinetic seizures of temporal lobe origin. Neurology, 2004, 62, 482-485.	1.1	119
13	Stereoelectroencephalography: retrospective analysis of 742 procedures in a single centre. Brain, 2019, 142, 2688-2704.	7.6	119
14	Sleep-related Minor Motor Events in Nocturnal Frontal Lobe Epilepsy. Epilepsia, 2007, 48, 335-341.	5.1	116
15	Insular-opercular seizures manifesting with sleep-related paroxysmal motor behaviors: A stereo-EEG study. Epilepsia, 2011, 52, 1781-1791.	5.1	112
16	Implantation of Stereoelectroencephalography Electrodes: A Systematic Review. Journal of Clinical Neurophysiology, 2016, 33, 490-502.	1.7	111
17	Mirth and laughter elicited by electrical stimulation of the human anterior cingulate cortex. Cortex, 2015, 71, 323-331.	2.4	96
18	Biomarkers of epileptogenic zone defined by quantified stereo-EEG analysis. Epilepsia, 2014, 55, 296-305.	5.1	94

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19	Stereo-EEG in children. <i>Child's Nervous System</i> , 2006, 22, 766-778.	1.1	80
20	Short- and long-term surgical outcomes of temporal lobe epilepsy associated with hippocampal sclerosis: Relationships with neuropathology. <i>Epilepsia</i> , 2016, 57, 306-315.	5.1	80
21	Stereo-EEG: Diagnostic and therapeutic tool for periventricular nodular heterotopia epilepsies. <i>Epilepsia</i> , 2017, 58, 1962-1971.	5.1	79
22	Stereoelectroencephalography in the presurgical evaluation of focal epilepsy: a retrospective analysis of 215 procedures. <i>Neurosurgery</i> , 2005, 57, 706-18; discussion 706-18.	1.1	79
23	Stereo-EEG-guided radio-frequency thermocoagulations of epileptogenic grey-matter nodular heterotopy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2014, 85, 611-617.	1.9	76
24	Stereoelectroencephalography in the presurgical evaluation of focal epilepsy in infancy and early childhood. <i>Journal of Neurosurgery: Pediatrics</i> , 2012, 9, 290-300.	1.3	71
25	Taylor's focal cortical dysplasia increases the risk of sleep-related epilepsy. <i>Epilepsia</i> , 2009, 50, 2599-2604.	5.1	68
26	SEEG assistant: a 3DSlicer extension to support epilepsy surgery. <i>BMC Bioinformatics</i> , 2017, 18, 124.	2.6	68
27	A new tool for touch-free patient registration for robot-assisted intracranial surgery: application accuracy from a phantom study and a retrospective surgical series. <i>Neurosurgical Focus</i> , 2017, 42, E8.	2.3	67
28	Cerebral Angiography for Multimodal Surgical Planning in Epilepsy Surgery: Description of a New Three-Dimensional Technique and Literature Review. <i>World Neurosurgery</i> , 2015, 84, 358-367.	1.3	66
29	Multimodal responses induced by cortical stimulation of the parietal lobe: a stereo-electroencephalography study. <i>Brain</i> , 2015, 138, 2596-2607.	7.6	64
30	Multi-trajectories automatic planner for StereoElectroEncephaloGraphy (SEEG). <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2014, 9, 1087-1097.	2.8	63
31	Type II focal cortical dysplasia: Ex vivo 7T magnetic resonance imaging abnormalities and histopathological comparisons. <i>Annals of Neurology</i> , 2016, 79, 42-58.	5.3	59
32	Identification of reproducible ictal patterns based on quantified frequency analysis of intracranial EEG signals. <i>Epilepsia</i> , 2011, 52, 477-488.	5.1	58
33	Long-range phase synchronization of high-frequency oscillations in human cortex. <i>Nature Communications</i> , 2020, 11, 5363.	12.8	58
34	Sleep-related hyperkinetic seizures: always a frontal onset?. <i>Neurological Sciences</i> , 2005, 26, s220-s224.	1.9	56
35	Surgery for drug resistant partial epilepsy in children with focal cortical dysplasia: anatomical-clinical correlations and neurophysiological data in 10 patients. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2003, 74, 1493-1501.	1.9	55
36	Negative myoclonus induced by cortical electrical stimulation in epileptic patients. <i>Brain</i> , 2006, 129, 65-81.	7.6	52

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37	Automatic Trajectory Planner for StereoElectroEncephaloGraphy Procedures: A Retrospective Study. IEEE Transactions on Biomedical Engineering, 2013, 60, 986-993.	4.2	51
38	Automatic segmentation of deep intracerebral electrodes in computed tomography scans. BMC Bioinformatics, 2015, 16, 99.	2.6	51
39	Stereoelectroencephalography in the Presurgical Evaluation of Focal Epilepsy: A Retrospective Analysis of 215 Procedures. Neurosurgery, 2005, 57, 706-718.	1.1	50
40	Stereoelectroencephalography in the presurgical evaluation of children with drug-resistant focal epilepsy. Journal of Neurosurgery: Pediatrics, 2005, 103, 333-343.	1.3	49
41	Clinical features of sleep-related hypermotor epilepsy in relation to the seizure-onset zone: A review of 135 surgically treated cases. Epilepsia, 2019, 60, 707-717.	5.1	48
42	Stereo-EEG-guided radiofrequency thermocoagulations. Epilepsia, 2017, 58, 66-72.	5.1	47
43	Nocturnal frontal lobe epilepsy: intracerebral recordings of paroxysmal motor attacks with increasing complexity. Sleep, 2003, 26, 883-6.	1.1	45
44	Stimulus-evoked potentials contribute to map the epileptogenic zone during stereo-EEG presurgical monitoring. Human Brain Mapping, 2014, 35, 4267-4281.	3.6	44
45	Epilepsy surgery of low grade epilepsy associated neuroepithelial tumors: A retrospective nationwide Italian study. Epilepsia, 2017, 58, 1832-1841.	5.1	41
46	Risk factors for postoperative depression in 150 subjects treated for drug-resistant focal epilepsy. Epidemiology and Psychiatric Sciences, 2011, 20, 99-105.	3.9	40
47	Family study of epilepsy in first degree relatives: data from the Italian EpiscreeN Study. Seizure: the Journal of the British Epilepsy Association, 2003, 12, 203-210.	2.0	35
48	Commentary: Understanding Stereoelectroencephalography: What's Next?. Neurosurgery, 2018, 82, E15-E16.	1.1	35
49	Epileptic nocturnal wanderings with a temporal lobe origin: a stereo-electroencephalographic study. Sleep, 2002, 25, 669-71.	1.1	34
50	Simultaneous human intracerebral stimulation and HD-EEG, ground-truth for source localization methods. Scientific Data, 2020, 7, 127.	5.3	33
51	Intracerebral recordings of minor motor events, paroxysmal arousals and major seizures in nocturnal frontal lobe epilepsy. Neurological Sciences, 2005, 26, s215-s219.	1.9	28
52	Different parvalbumin and GABA expression in human epileptogenic focal cortical dysplasia. Epilepsia, 2016, 57, 1109-1119.	5.1	27
53	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
54	Identifying the epileptogenic zone by four non-invasive imaging techniques versus stereo-EEG in MRI-negative pre-surgery epilepsy patients. Clinical Neurophysiology, 2020, 131, 1815-1823.	1.5	27

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55	Presurgical strategies and epilepsy surgery in children: comparison of literature and personal experiences. <i>Child's Nervous System</i> , 1999, 15, 149-157.	1.1	26
56	Surgery for temporal lobe epilepsy in children: relevance of presurgical evaluation and analysis of outcome. <i>Journal of Neurosurgery: Pediatrics</i> , 2013, 11, 256-267.	1.3	26
57	Kurtosis-Based Detection of Intracranial High-Frequency Oscillations for the Identification of the Seizure Onset Zone. <i>International Journal of Neural Systems</i> , 2018, 28, 1850001.	5.2	26
58	Drug-resistant parietal epilepsy: polymorphic ictal semiology does not preclude good post-surgical outcome. <i>Epileptic Disorders</i> , 2015, 17, 32-46.	1.3	25
59	Retrospective evaluation and SEEG trajectory analysis for interactive multi-trajectory planner assistant. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 1727-1738.	2.8	25
60	Unilobar surgery for symptomatic epileptic spasms. <i>Annals of Clinical and Translational Neurology</i> , 2017, 4, 36-45.	3.7	25
61	Drug-resistant focal sleep related epilepsy: Results and predictors of surgical outcome. <i>Epilepsy Research</i> , 2014, 108, 953-962.	1.6	24
62	Surgical treatment of polymicrogyria-related epilepsy. <i>Epilepsia</i> , 2016, 57, 2001-2010.	5.1	22
63	Epilepsy surgery in patients older than 50 years: Effectiveness, safety, and predictors of outcome. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2017, 50, 60-66.	2.0	21
64	FCD Type II and mTOR pathway: Evidence for different mechanisms involved in the pathogenesis of dysmorphic neurons. <i>Epilepsy Research</i> , 2017, 129, 146-156.	1.6	21
65	Electrical stimulation for seizure induction during SEEG exploration: a useful predictor of postoperative seizure recurrence?. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021, 92, 22-26.	1.9	21
66	Stereotactic electroencephalography in humans reveals multisensory signal in early visual and auditory cortices. <i>Cortex</i> , 2020, 126, 253-264.	2.4	20
67	Surgery in patients with childhood-onset epilepsy: analysis of complications and predictive risk factors for a severely complicated course. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2019, 90, 84-89.	1.9	19
68	Nocturnal Frontal Lobe Epilepsy: Intracerebral Recordings of Paroxysmal Motor Attacks with Increasing Complexity. <i>Sleep</i> , 2003, , .	1.1	16
69	Stereo-electroencephalography safety and effectiveness: Some more reasons in favor of epilepsy surgery. <i>Epilepsia</i> , 2013, 54, 1505-1506.	5.1	16
70	Layer-specific gene expression in epileptogenic type II focal cortical dysplasia: normal-looking neurons reveal the presence of a hidden laminar organization. <i>Acta Neuropathologica Communications</i> , 2014, 2, 45.	5.2	16
71	Risk factors for postoperative depression: A retrospective analysis of 248 subjects operated on for drug-resistant epilepsy. <i>Epilepsia</i> , 2015, 56, e149-55.	5.1	16
72	Epilepsy surgery in the posterior part of the brain. <i>Epilepsy and Behavior</i> , 2016, 64, 273-282.	1.7	16

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73	SEEG, Happy Anniversary!. World Neurosurgery, 2016, 85, 1-2.	1.3	16
74	Letter to the Editor: SEEG has the lowest rate of complications. Journal of Neurosurgery, 2015, 122, 475-478.	1.6	15
75	Surgical outcomes in two different age groups with Focal Cortical Dysplasia type II: Any real difference?. Epilepsy and Behavior, 2017, 70, 45-49.	1.7	15
76	Experience-based SEEG planning: from retrospective data to automated electrode trajectories suggestions. Healthcare Technology Letters, 2018, 5, 167-171.	3.3	13
77	Stereoelectroencephalography: Application Accuracy, Efficacy, and Safety. World Neurosurgery, 2016, 94, 570-571.	1.3	12
78	A method for the assessment of time-varying brain shift during navigated epilepsy surgery. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 473-481.	2.8	12
79	SURface-PROjected FLuid-Attenuation-Inversion-Recovery Analysis: A Novel Tool for Advanced Imaging of Epilepsy. World Neurosurgery, 2017, 98, 715-726.e1.	1.3	12
80	Surgical planning assistance in keyhole and percutaneous surgery: A systematic review. Medical Image Analysis, 2021, 67, 101820.	11.6	12
81	Hand-â€œtoolâ€œ-tissue interaction forces in neurosurgery for haptic rendering. Medical and Biological Engineering and Computing, 2016, 54, 1229-1241.	2.8	11
82	Intracerebral electrical stimulations of the temporal lobe: A stereoelectroencephalography study. European Journal of Neuroscience, 2021, 54, 5368-5383.	2.6	10
83	Musicogenic epilepsy: A Stereo-electroencephalography study. Cortex, 2019, 120, 582-587.	2.4	9
84	Tailored multilobar disconnective epilepsy surgery in the posterior quadrant. Journal of Neurosurgery, 2020, 132, 1345-1357.	1.6	9
85	Clinical Ictal Symptomatology and Anatomical Lesions: Their Relationships in Severe Partial Epilepsy. Epilepsia, 2000, 41, S18-36.	5.1	8
86	Talairach methodology in the era of 3D multimodal imaging: â€œThe song remains the same,â€œ but catchier, and therefore more helpful for clinical decision making and surgical planning in epilepsy surgery. Epilepsia, 2015, 56, 976-977.	5.1	8
87	An image registration protocol to integrate electrophysiology, MRI and neuropathology data in epileptic patients explored with intracerebral electrodes. Journal of Neuroscience Methods, 2018, 303, 159-168.	2.5	8
88	A comparative study between state-of-the-art <scp>MRI</scp> deidentification and <scp>AnonyMI</scp>, a new method combining re-identification risk reduction and geometrical preservation. Human Brain Mapping, 2021, 42, 5523-5534.	3.6	8
89	Unruptured Versus Ruptured AVMs: Outcome Analysis from a Multicentric Consecutive Series of 545 Surgically Treated Cases. World Neurosurgery, 2018, 110, e374-e382.	1.3	7
90	Focal Cortical Dysplasia IIIa in Hippocampal Sclerosis-Associated Epilepsy: Anatomico-Electro-Clinical Profile and Surgical Results From a Multicentric Retrospective Study. Neurosurgery, 2021, 88, 384-393.	1.1	7

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91	fMRI-Based Effective Connectivity in Surgical Remediable Epilepsies: A Pilot Study. Brain Topography, 2021, 34, 632-650.	1.8	6
92	Catching the imposter in the brain: The case of Capgras delusion. Cortex, 2020, 131, 295-304.	2.4	6
93	Fast Activity Evoked by Intracranial 50 Hz Electrical Stimulation as a Marker of the Epileptogenic Zone. International Journal of Neural Systems, 2015, 25, 1550022.	5.2	5
94	Stereotactic accuracy must be as high as possible in stereoelectroencephalography procedures. Journal of Robotic Surgery, 2017, 11, 485-486.	1.8	5
95	Accurate Detection of Hot-Spot MTOR Somatic Mutations in Archival Surgical Specimens of Focal Cortical Dysplasia by Molecular Inversion Probes. Molecular Diagnosis and Therapy, 2020, 24, 571-577.	3.8	5
96	Knowledge-based automated planning system for StereoElectroEncephaloGraphy: A center-based scenario. Journal of Biomedical Informatics, 2020, 108, 103460.	4.3	5
97	A self-supervised learning strategy for postoperative brain cavity segmentation simulating resections. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1653-1661.	2.8	5
98	The kinematic architecture of the Active Headframe: A new head support for awake brain surgery. , 2012, 2012, 1417-21.		4
99	Brain-vascular segmentation for SEEG planning via a 3D fully-convolutional neural network. , 2019, 2019, 1014-1017.		4
100	Forecasting Seizure Freedom After Epilepsy Surgery Assessing Concordance Between Noninvasive and StereoEEG Findings. Neurosurgery, 2021, 88, 113-121.	1.1	4
101	Stereotactic Robotic Application Accuracy Is Very High in 'in vivo' Procedures. Stereotactic and Functional Neurosurgery, 2015, 93, 68-68.	1.5	3
102	Letter to the Editor: Stereoelectroencephalography for insular-opercular/perisylvian epilepsy. Journal of Neurosurgery: Pediatrics, 2017, 19, 271-272.	1.3	3
103	Surgery for tuberous sclerosis complex-related epilepsy: Risk factors for an unfavorable seizure outcome. Seizure: the Journal of the British Epilepsy Association, 2022, 97, 8-14.	2.0	3
104	Multilobar Resection and Hemispherectomy in Epilepsy Surgery. , 2012, , 1281-1293.		2
105	ART 3.5D: an algorithm to label arteries and veins from three-dimensional angiography. Journal of Medical Imaging, 2016, 3, 044002.	1.5	2
106	Reply: The dorsal cingulate cortex as a critical gateway in the network supporting conscious awareness. Brain, 2016, 139, e24-e24.	7.6	2
107	Safe electrode trajectory planning in SEEG via MIP-based vessel segmentation. , 2017, , .		2
108	Commentary: Incorporating New Technology Into a Surgical Technique: The Learning Curve of a Single Surgeon's Stereo-Electroencephalography Experience. Neurosurgery, 2020, 86, E290-E291.	1.1	2

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109	SEEG reâ€œexploration in a patient with complex frontal epilepsy with rapid perisylvian propagation and mixed â€œstartle â€œreflexâ€œseizures. <i>Epileptic Disorders</i> , 2021, 23, 180-190.	1.3	2
110	Commentary: The Path to Surgical Robotics in Neurosurgery. <i>Operative Neurosurgery</i> , 2021, 21, E167-E168.	0.8	1
111	Enhancing Safety in Epilepsy Surgery (EASINESS): Study Protocol for a Retrospective, Multicenter, Open Registry. <i>Frontiers in Neurology</i> , 2021, 12, 782666.	2.4	1
112	The introduction of capillary structures in 4D simulated vascular tree for ART 3.5D algorithm further validation. , 2017, , .		0
113	On the Use of Catheter Angiography for Stereoelectroencephalography Trajectory Planning. <i>World Neurosurgery</i> , 2018, 112, 306.	1.3	0
114	SART 3.5D - Recovering cerebrovascular hemodynamics from standard 3D digital subtraction angiography cone-beam CT data-sets. <i>Veins and Lymphatics</i> , 2019, 8, .	0.1	0
115	Stereotactic accuracy of stereoelectroencephalography procedures should be measured at both the entry and target points. <i>Acta Neurochirurgica</i> , 2021, 163, 1369-1370.	1.7	0
116	Letter to the Editor. No need to change the nomenclature of stereoelectroencephalography. <i>Journal of Neurosurgery: Pediatrics</i> , 2021, 28, 115-116.	1.3	0
117	In Reply: Forecasting Seizure Freedom After Epilepsy Surgery Assessing Concordance Between Noninvasive and StereoEEG Findings. <i>Neurosurgery</i> , 2021, 88, E290-E291.	1.1	0
118	Letter to the Editor. Zero complications in SEEG: a goal to pursue. <i>Journal of Neurosurgery</i> , 2020, 135, 330-331.	1.6	0
119	Predictors of hyperkinetic seizures. <i>Epilepsy and Behavior</i> , 2022, 129, 108629.	1.7	0