

# Serge Vulliemoz

## List of Publications by Year in descending order

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75  
papers

3,400  
citations

147566

31  
h-index

155451

55  
g-index

88  
all docs

88  
docs citations

88  
times ranked

3204  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electroencephalographic source imaging: a prospective study of 152 operated epileptic patients. <i>Brain</i> , 2011, 134, 2887-2897.	3.7	361
2	With or without spikes: localization of focal epileptic activity by simultaneous electroencephalography and functional magnetic resonance imaging. <i>Brain</i> , 2011, 134, 2867-2886.	3.7	171
3	Electric source imaging of interictal activity accurately localises the seizure onset zone. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2014, 85, 38-43.	0.9	132
4	Simultaneous intracranial EEG and fMRI of interictal epileptic discharges in humans. <i>NeuroImage</i> , 2011, 54, 182-190.	2.1	124
5	EEG correlated functional MRI and postoperative outcome in focal epilepsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2010, 81, 922-927.	0.9	122
6	Dynamic directed interictal connectivity in left and right temporal lobe epilepsy. <i>Epilepsia</i> , 2015, 56, 207-217.	2.6	117
7	Epileptic networks in focal cortical dysplasia revealed using electroencephalographyâ€“functional magnetic resonance imaging. <i>Annals of Neurology</i> , 2011, 70, 822-837.	2.8	116
8	Altered directed functional connectivity in temporal lobe epilepsy in the absence of interictal spikes: A high density <sc>EEG</sc> study. <i>Epilepsia</i> , 2016, 57, 402-411.	2.6	107
9	Head model and electrical source imaging: A study of 38 epileptic patients. <i>NeuroImage: Clinical</i> , 2014, 5, 77-83.	1.4	99
10	Yield of MRI, high-density electric source imaging (HD-ESI), SPECT and PET in epilepsy surgery candidates. <i>Clinical Neurophysiology</i> , 2016, 127, 150-155.	0.7	97
11	Clinical Applications of Hybrid PET/MRI in Neuroimaging. <i>Clinical Nuclear Medicine</i> , 2013, 38, e13-e18.	0.7	92
12	Current use of imaging and electromagnetic source localization procedures in epilepsy surgery centers across Europe. <i>Epilepsia</i> , 2016, 57, 770-776.	2.6	89
13	Reaching beyond the midline: why are human brains cross wired?. <i>Lancet Neurology</i> , The, 2005, 4, 87-99.	4.9	87
14	Source localization of ictal epileptic activity based on highâ€“density scalp EEG data. <i>Epilepsia</i> , 2017, 58, 1027-1036.	2.6	84
15	The Role of Functional Neuroimaging in Pre-Surgical Epilepsy Evaluation. <i>Frontiers in Neurology</i> , 2014, 5, 31.	1.1	80
16	The combination of EEG Source Imaging and EEGâ€“correlated functional MRI to map epileptic networks. <i>Epilepsia</i> , 2010, 51, 491-505.	2.6	75
17	Epilepsy and brain network hubs. <i>Epilepsia</i> , 2022, 63, 537-550.	2.6	66
18	Directed Functional Brain Connectivity Based on EEG Source Imaging: Methodology and Application to Temporal Lobe Epilepsy. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 2619-2628.	2.5	60

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19	Connectivity and tissue microstructural alterations in right and left temporal lobe epilepsy revealed by diffusion spectrum imaging. <i>NeuroImage: Clinical</i> , 2014, 5, 349-358.	1.4	59
20	Automated diagnosis of temporal lobe epilepsy in the absence of interictal spikes. <i>NeuroImage: Clinical</i> , 2018, 17, 10-15.	1.4	52
21	EEG source connectivity to localize the seizure onset zone in patients with drug resistant epilepsy. <i>NeuroImage: Clinical</i> , 2017, 16, 689-698.	1.4	50
22	Seizure Onset Zone Localization from Ictal High-Density EEG in Refractory Focal Epilepsy. <i>Brain Topography</i> , 2017, 30, 257-271.	0.8	50
23	Network Perspectives on Epilepsy Using EEG/MEG Source Connectivity. <i>Frontiers in Neurology</i> , 2019, 10, 721.	1.1	50
24	EEG source imaging of brain states using spatiotemporal regression. <i>NeuroImage</i> , 2014, 96, 106-116.	2.1	47
25	Early alterations of social brain networks in young children with autism. <i>ELife</i> , 2018, 7, .	2.8	46
26	Combined electroencephalographyâ€“functional magnetic resonance imaging and electrical source imaging improves localization of pediatric focal epilepsy. <i>Annals of Neurology</i> , 2017, 82, 278-287.	2.8	45
27	Directed functional connections underlying spontaneous brain activity. <i>Human Brain Mapping</i> , 2019, 40, 879-888.	1.9	44
28	Diagnostic accuracy of interictal source imaging in presurgical epilepsy evaluation: A systematic review from the E-PILEPSY consortium. <i>Clinical Neurophysiology</i> , 2019, 130, 845-855.	0.7	42
29	Automated long-term <sc>EEG</sc> analysis to localize the epileptogenic zone. <i>Epilepsia Open</i> , 2017, 2, 322-333.	1.3	41
30	Connectome spectral analysis to track EEG task dynamics on a subsecond scale. <i>NeuroImage</i> , 2020, 221, 117137.	2.1	40
31	Ictal EEG source localization in focal epilepsy: Review and future perspectives. <i>Clinical Neurophysiology</i> , 2020, 131, 2600-2616.	0.7	37
32	Epileptic networks are strongly connected with and without the effects of interictal discharges. <i>Epilepsia</i> , 2016, 57, 1086-1096.	2.6	36
33	All-in-one interictal presurgical imaging in patients with epilepsy: single-session EEG/PET/(f)MRI. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015, 42, 1133-1143.	3.3	35
34	Pulse Artifact Detection in Simultaneous EEGâ€“fMRI Recording Based on EEG Map Topography. <i>Brain Topography</i> , 2015, 28, 21-32.	0.8	33
35	Levetiracetam accumulation in renal failure causing myoclonic encephalopathy with triphasic waves. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2009, 18, 376-378.	0.9	32
36	Simultaneous Intracranial EEG-fMRI Shows Inter-Modality Correlation in Time-Resolved Connectivity Within Normal Areas but Not Within Epileptic Regions. <i>Brain Topography</i> , 2017, 30, 639-655.	0.8	32

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37	Interictal epileptogenic zone localization in patients with focal epilepsy using electric source imaging and directed functional connectivity from low-density sEEG. <i>Epilepsia Open</i> , 2019, 4, 281-292.	1.3	32
38	Localization of the epileptogenic tuber with electric source imaging in patients with tuberous sclerosis. <i>Epilepsy Research</i> , 2014, 108, 267-279.	0.8	30
39	MP2RAGE and Susceptibility-Weighted Imaging in Lesional Epilepsy at 7T. <i>Journal of Neuroimaging</i> , 2018, 28, 365-369.	1.0	29
40	Functional brain networks in epilepsy. <i>Current Opinion in Neurology</i> , 2015, 28, 338-343.	1.8	26
41	Resting-State Brain Activity for Early Prediction Outcome in Postanoxic Patients in a Coma with Indeterminate Clinical Prognosis. <i>American Journal of Neuroradiology</i> , 2020, 41, 1022-1030.	1.2	25
42	Abnormal directed connectivity of resting state networks in focal epilepsy. <i>NeuroImage: Clinical</i> , 2020, 27, 102336.	1.4	24
43	The relationship between EEG and fMRI connectomes is reproducible across simultaneous EEG-fMRI studies from 1.5T to 7T. <i>NeuroImage</i> , 2021, 231, 117864.	2.1	24
44	Clinical Neuroimaging Using 7 T MRI: Challenges and Prospects. <i>Journal of Neuroimaging</i> , 2018, 28, 5-13.	1.0	24
45	Imaging Compatible Electrodes for Continuous Electroencephalogram Monitoring in the Intensive Care Unit. <i>Journal of Clinical Neurophysiology</i> , 2009, 26, 236-243.	0.9	20
46	Mapping human preictal and ictal haemodynamic networks using simultaneous intracranial EEG-fMRI. <i>NeuroImage: Clinical</i> , 2016, 11, 486-493.	1.4	20
47	Noninvasive Language Mapping in Patients With Epilepsy or Brain Tumors. <i>Neurosurgery</i> , 2013, 72, 555-565.	0.6	19
48	Presurgical brain mapping in epilepsy using simultaneous EEG and functional MRI at ultra-high field: feasibility and first results. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016, 29, 605-616.	1.1	19
49	Evaluating the impact of fast-fMRI on dynamic functional connectivity in an event-based paradigm. <i>PLoS ONE</i> , 2018, 13, e0190480.	1.1	19
50	High-density Electric Source Imaging of interictal epileptic discharges: How many electrodes and which time point?. <i>Clinical Neurophysiology</i> , 2020, 131, 2795-2803.	0.7	17
51	Using structural connectivity to augment community structure in EEG functional connectivity. <i>Network Neuroscience</i> , 2020, 4, 761-787.	1.4	16
52	Extracting seizure onset from surface EEG with independent component analysis: Insights from simultaneous scalp and intracerebral EEG. <i>NeuroImage: Clinical</i> , 2021, 32, 102838.	1.4	16
53	Epileptic network activity revealed by dynamic functional connectivity in simultaneous EEG-fMRI. , 2014, , .		14
54	Slow oscillations open susceptible time windows for epileptic discharges. <i>Epilepsia</i> , 2021, 62, 2357-2371.	2.6	14

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55	Recurrent secondary generalization in frontal lobe epilepsy: Predictors and a potential link to surgical outcome?. <i>Epilepsia</i> , 2015, 56, 1454-1462.	2.6	13
56	Influence of Time-Series Normalization, Number of Nodes, Connectivity and Graph Measure Selection on Seizure-Onset Zone Localization from Intracranial EEG. <i>Brain Topography</i> , 2018, 31, 753-766.	0.8	12
57	Localizing non-epileptiform abnormal brain function in children using high density EEG: Electric Source Imaging of focal slowing. <i>Epilepsy Research</i> , 2020, 159, 106245.	0.8	12
58	Increased delta power as a scalp marker of epileptic activity: a simultaneous scalp and intracranial electroencephalography study. <i>European Journal of Neurology</i> , 2022, 29, 26-35.	1.7	12
59	A hemodynamic network involving the insula, the cingulate, and the basal forebrain correlates with EEG synchronization phases of sleep instability. <i>Sleep</i> , 2019, 42, .	0.6	11
60	Automated interictal source localisation based on high-density EEG. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2021, 92, 244-251.	0.9	11
61	Personalized structural image analysis in patients with temporal lobe epilepsy. <i>Scientific Reports</i> , 2017, 7, 10883.	1.6	10
62	Electrical stimulation of the medial orbitofrontal cortex in humans elicits pleasant olfactory perceptions. <i>Epilepsy and Behavior</i> , 2021, 114, 107559.	0.9	10
63	Linear distributed inverse solutions for interictal EEG source localisation. <i>Clinical Neurophysiology</i> , 2022, 133, 58-67.	0.7	9
64	Can postictal memory predict postoperative memory in patients with temporal lobe epilepsy?. <i>Epilepsia</i> , 2012, 53, e170-3.	2.6	8
65	Visual analysis of high density EEG: As good as electrical source imaging?. <i>Clinical Neurophysiology Practice</i> , 2020, 5, 16-22.	0.6	8
66	Postoperative memory prognosis in temporal lobe epilepsy surgery: The contribution of postictal memory. <i>Epilepsia</i> , 2019, 60, 1639-1649.	2.6	7
67	Evaluation of Directed Causality Measures and Lag Estimations in Multivariate Time-Series. <i>Frontiers in Systems Neuroscience</i> , 2021, 15, 620338.	1.2	7
68	Seizure onset zone localization from many invasive EEG channels using directed functional connectivity. , 2016, , .		5
69	Reversible encephalopathy with photoparoxysmal response during imipenem/cilastatin treatment. <i>Journal of the Neurological Sciences</i> , 2016, 360, 23-24.	0.3	5
70	Brain networks involved in generalized periodic discharges (GPD) in post-anoxic-ischemic encephalopathy. <i>Resuscitation</i> , 2020, 155, 143-151.	1.3	5
71	A New Ground and Reference Technique for Invasive EEG Recordings. <i>American Journal of Electroneurodiagnostic Technology</i> , 2010, 50, 50-58.	0.3	3
72	Lateralized Rhythmic Delta Activity Synchronous with Hippocampal Epileptiform Discharges on Intracranial EEG. <i>European Neurology</i> , 2020, 83, 225-227.	0.6	2

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73	Drug-Level Monitoring on Admission for Presurgical Epilepsy Evaluation. <i>European Neurology</i> , 2017, 78, 105-110.	0.6	1
74	Giant Lumbar Pseudomeningocele Compression Mimicking Stroke and Seizure. <i>Neurology: Clinical Practice</i> , 2021, 11, e763-e765.	0.8	1
75	Slow oscillations anticipate interictal epileptic discharges. <i>Clinical Neurophysiology</i> , 2022, 139, 128-128.	0.7	1