

# John C Mosher

## List of Publications by Year in descending order

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Version: 2024-02-01

87  
papers

9,813  
citations

117625

34  
h-index

56724

83  
g-index

88  
all docs

88  
docs citations

88  
times ranked

6934  
citing authors

#	ARTICLE	IF	CITATIONS
1	A unified view on beamformers for M/EEG source reconstruction. <i>NeuroImage</i> , 2022, 246, 118789.	4.2	50
2	Gamma band functional connectivity reduction in patients with amnesic mild cognitive impairment and epileptiform activity. <i>Brain Communications</i> , 2022, 4, fcac012.	3.3	10
3	Good scientific practice in EEG and MEG research: Progress and perspectives. <i>NeuroImage</i> , 2022, 257, 119056.	4.2	15
4	Validation of semi-automated anatomically labeled SEEG contacts in a brain atlas for mapping connectivity in focal epilepsy. <i>Epilepsia Open</i> , 2021, 6, 493-503.	2.4	6
5	Indications for Inpatient Magnetoencephalography in Children – An Institution’s Experience. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 667777.	2.0	4
6	Effective connectivity differs between focal cortical dysplasia types I and II. <i>Epilepsia</i> , 2021, 62, 2753-2765.	5.1	5
7	Practical Fundamentals of Clinical MEG Interpretation in Epilepsy. <i>Frontiers in Neurology</i> , 2021, 12, 722986.	2.4	14
8	Learning to define an electrical biomarker of the epileptogenic zone. <i>Human Brain Mapping</i> , 2020, 41, 429-441.	3.6	25
9	Comparison of beamformer implementations for MEG source localization. <i>NeuroImage</i> , 2020, 216, 116797.	4.2	48
10	The FAST graph: A novel framework for the anatomically-guided visualization and analysis of cortico-cortical evoked potentials. <i>Epilepsy Research</i> , 2020, 161, 106264.	1.6	5
11	Connectivity of the human insula: A cortico-cortical evoked potential (CCEP) study. <i>Cortex</i> , 2019, 120, 419-442.	2.4	49
12	MEG/EEG Group Analysis With Brainstorm. <i>Frontiers in Neuroscience</i> , 2019, 13, 76.	2.8	135
13	Heterotopia or overlaying cortex: What about in-between?. <i>Epilepsy &amp; Behavior Case Reports</i> , 2019, 11, 4-9.	1.5	10
14	Scalable and Robust Tensor Decomposition of Spontaneous Stereotactic EEG Data. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1549-1558.	4.2	10
15	A fingerprint of the epileptogenic zone in human epilepsies. <i>Brain</i> , 2018, 141, 117-131.	7.6	136
16	Assessment of the Utility of Ictal Magnetoencephalography in the Localization of the Epileptic Seizure Onset Zone. <i>JAMA Neurology</i> , 2018, 75, 1264.	9.0	38
17	Connectivity in ictal single photon emission computed tomography perfusion: a cortico-cortical evoked potential study. <i>Brain</i> , 2017, 140, 1872-1884.	7.6	22
18	Magnetoencephalographic Identification of Epileptic Focus in Children With Generalized Electroencephalographic (EEG) Features but Focal Imaging Abnormalities. <i>Journal of Child Neurology</i> , 2017, 32, 981-995.	1.4	10

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19	MEG May Reveal Hidden Population of Spikes in Epilepsy With Porencephalic Cyst/Encephalomalacia. <i>Journal of Clinical Neurophysiology</i> , 2017, 34, 546-549.	1.7	2
20	Magnetoencephalographic Recordings in Infants Using a Standard-Sized Array: Technical Adequacy and Diagnostic Yield. <i>Journal of Clinical Neurophysiology</i> , 2017, 34, 461-468.	1.7	11
21	Interictal Infralow Activity in Stereoelectroencephalography. <i>Journal of Clinical Neurophysiology</i> , 2016, 33, 141-148.	1.7	8
22	Time-Frequency Strategies for Increasing High-Frequency Oscillation Detectability in Intracerebral EEG. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 2595-2606.	4.2	80
23	Correlating magnetoencephalography to stereo-electroencephalography in patients undergoing epilepsy surgery. <i>Brain</i> , 2016, 139, 2935-2947.	7.6	129
24	Automated MRI Volumetric Analysis in Patients with Rasmussen Syndrome. <i>American Journal of Neuroradiology</i> , 2016, 37, 2348-2355.	2.4	13
25	Ictal infralow activity in stereoelectroencephalography: Beyond the "DC shift". <i>Clinical Neurophysiology</i> , 2016, 127, 117-128.	1.5	25
26	Connectivity of the frontal and anterior insular network: a cortico-cortical evoked potential study. <i>Journal of Neurosurgery</i> , 2016, 125, 90-101.	1.6	32
27	Connections of the limbic network: A corticocortical evoked potentials study. <i>Cortex</i> , 2015, 62, 20-33.	2.4	82
28	Epileptic focus localization based on resting state interictal MEG recordings is feasible irrespective of the presence or absence of spikes. <i>Clinical Neurophysiology</i> , 2015, 126, 667-674.	1.5	34
29	A magnetoencephalography study of visual processing of pain anticipation. <i>Journal of Neurophysiology</i> , 2014, 112, 276-286.	1.8	10
30	The correlation of magnetoencephalography to intracranial EEG in localizing the epileptogenic zone: A study of the surgical resection outcome. <i>Epilepsy Research</i> , 2014, 108, 1581-1590.	1.6	48
31	Cephalic aura after frontal lobe resection. <i>Journal of Clinical Neuroscience</i> , 2014, 21, 1450-1452.	1.5	3
32	Sensitivity of scalp 10-20 EEG and magnetoencephalography. <i>Epileptic Disorders</i> , 2013, 15, 27-31.	1.3	23
33	Correlation between magnetoencephalography-based "clusterectomy" and postoperative seizure freedom. <i>Neurosurgical Focus</i> , 2013, 34, E9.	2.3	46
34	Magnetic source imaging and ictal SPECT in MRI-negative neocortical epilepsies: Additional value and comparison with intracranial EEG. <i>Epilepsia</i> , 2013, 54, 359-369.	5.1	56
35	The use of contact heat evoked potential stimulator (CHEPS) in magnetoencephalography for pain research. <i>Journal of Neuroscience Methods</i> , 2013, 220, 55-63.	2.5	13
36	In vivo human hippocampal cingulate connectivity: A corticocortical evoked potentials (CCEPs) study. <i>Clinical Neurophysiology</i> , 2013, 124, 1547-1556.	1.5	70

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37	Localization of the ictal onset zone with MEG using minimum norm estimate of a narrow band at seizure onset versus standard single current dipole modeling. <i>Clinical Neurophysiology</i> , 2013, 124, 1915-1918.	1.5	11
38	Implanted medical devices or other strong sources of interference are not barriers to magnetoencephalographic recordings in epilepsy patients. <i>Clinical Neurophysiology</i> , 2013, 124, 1283-1289.	1.5	8
39	Feasibility of magnetoencephalography recording in an epilepsy patient with implanted responsive cortical stimulation device. <i>Clinical Neurophysiology</i> , 2013, 124, 1705-1706.	1.5	5
40	Utility of temporally-extended signal space separation algorithm for magnetic noise from vagal nerve stimulators. <i>Clinical Neurophysiology</i> , 2013, 124, 1277-1282.	1.5	23
41	Reorganization of posterior language area in temporal lobe epilepsy: A cortico-cortical evoked potential study. <i>Epilepsy Research</i> , 2013, 103, 73-82.	1.6	45
42	Ripple classification helps to localize the seizure onset zone in neocortical epilepsy. <i>Epilepsia</i> , 2013, 54, 370-376.	5.1	193
43	Magnetoencephalography Correlate of EEG POSTS (Positive Occipital Sharp Transients of Sleep). <i>Journal of Clinical Neurophysiology</i> , 2013, 30, 235-237.	1.7	8
44	Magnetoencephalography Reveals a Unique Neurophysiological Profile of Focal-Onset Epileptic Spasms. <i>Tohoku Journal of Experimental Medicine</i> , 2013, 229, 147-151.	1.2	4
45	Functional Connectivity Estimated from Intracranial EEG Predicts Surgical Outcome in Intractable Temporal Lobe Epilepsy. <i>PLoS ONE</i> , 2013, 8, e77916.	2.5	68
46	Language Reorganization in Temporal Lobe Epilepsy. <i>Neurosurgery</i> , 2012, 71, E568-E569.	1.1	0
47	Interconnections in superior temporal cortex revealed by musicogenic seizure propagation. <i>Journal of Neurology</i> , 2012, 259, 2251-2254.	3.6	10
48	Magnetoencephalography's higher sensitivity to epileptic spikes may elucidate the profile of electroencephalographically negative epileptic seizures. <i>Epilepsy and Behavior</i> , 2012, 23, 171-173.	1.7	15
49	Magnetic source imaging in non-lesional neocortical epilepsy: Additional value and comparison with ICEEG. <i>Epilepsy and Behavior</i> , 2012, 24, 234-240.	1.7	47
50	Clinical evidence for the utility of movement compensation algorithm in magnetoencephalography: Successful localization during focal seizure. <i>Epilepsy Research</i> , 2012, 101, 191-196.	1.6	22
51	Cortical excitability varies upon ictal onset patterns in neocortical epilepsy: A cortico-cortical evoked potential study. <i>Clinical Neurophysiology</i> , 2012, 123, 252-260.	1.5	77
52	Magnetoencephalography in fronto-parietal opercular epilepsy. <i>Epilepsy Research</i> , 2012, 102, 71-77.	1.6	30
53	Use of simultaneous depth and MEG recording may provide complementary information regarding the epileptogenic region. <i>Epileptic Disorders</i> , 2012, 14, 298-303.	1.3	35
54	Imag(in)ing seizure propagation: MEG-guided interpretation of epileptic activity from a deep source. <i>Human Brain Mapping</i> , 2012, 33, 2797-2801.	3.6	25

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55	Voxel-based morphometric MRI post-processing in MRI-negative focal cortical dysplasia followed by simultaneously recorded MEG and stereo-EEG. <i>Epilepsy Research</i> , 2012, 100, 188-193.	1.6	29
56	Intractable focal epilepsy contralateral to the side of facial atrophy in Parry-Romberg syndrome. <i>Neurological Sciences</i> , 2012, 33, 165-168.	1.9	10
57	Brainstorm: A User-Friendly Application for MEG/EEG Analysis. <i>Computational Intelligence and Neuroscience</i> , 2011, 2011, 1-13.	1.7	2,564
58	Generalized 3-Hz spike-and-wave complexes emanating from focal epileptic activity in pediatric patients. <i>Epilepsy and Behavior</i> , 2011, 20, 103-106.	1.7	21
59	Different cortical involvement pattern of generalized and localized spasms: A magnetoencephalography study. <i>Epilepsy and Behavior</i> , 2011, 22, 599-601.	1.7	9
60	Generalized sidelobe canceller for magnetoencephalography arrays. , 2009, 2009, 149-152.		3
61	Parallel MRI at microtesla fields. <i>Journal of Magnetic Resonance</i> , 2008, 192, 197-208.	2.1	65
62	Microtesla MRI of the human brain combined with MEG. <i>Journal of Magnetic Resonance</i> , 2008, 194, 115-120.	2.1	159
63	Toward SQUID-Based Direct Measurement of Neural Currents by Nuclear Magnetic Resonance. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 854-857.	1.7	9
64	Multi-Channel SQUID System for MEG and Ultra-Low-Field MRI. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 839-842.	1.7	45
65	Source estimation. <i>International Congress Series</i> , 2007, 1300, 11-14.	0.2	0
66	Using ultra-low field nuclear magnetic resonance for direct neural current measurements. <i>International Congress Series</i> , 2007, 1300, 582-585.	0.2	2
67	Multi-sensor system for simultaneous ultra-low-field MRI and MEG. <i>International Congress Series</i> , 2007, 1300, 631-634.	0.2	2
68	Generic head models for atlas-based EEG source analysis. <i>Human Brain Mapping</i> , 2006, 27, 129-143.	3.6	74
69	SQUID-Based Simultaneous Detection of NMR and Biomagnetic Signals at Ultra-Low Magnetic Fields. <i>IEEE Transactions on Applied Superconductivity</i> , 2005, 15, 635-639.	1.7	33
70	Investigations of dipole localization accuracy in MEG using the bootstrap. <i>NeuroImage</i> , 2005, 25, 355-368.	4.2	54
71	Automated interictal spike detection and source localization in magnetoencephalography using independent components analysis and spatio-temporal clustering. <i>Clinical Neurophysiology</i> , 2004, 115, 508-522.	1.5	96
72	Localization of realistic cortical activity in MEG using current multipoles. <i>NeuroImage</i> , 2004, 22, 779-793.	4.2	76

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73	Electromagnetic brain mapping. IEEE Signal Processing Magazine, 2001, 18, 14-30.	5.6	1,373
74	Dipole localization of human induced focal afterdischarge seizure in simultaneous magnetoencephalography and electrocorticography. Brain Topography, 2001, 14, 101-116.	1.8	36
75	Non-destructive evaluation with a linear array of 11 HTS SQUIDS. IEEE Transactions on Applied Superconductivity, 2001, 11, 1303-1306.	1.7	7
76	Rapidly recomputable EEG forward models for realistic head shapes. Physics in Medicine and Biology, 2001, 46, 1265-1281.	3.0	74
77	Paired MEG data set source localization using recursively applied and projected (RAP) MUSIC. IEEE Transactions on Biomedical Engineering, 2000, 47, 1248-1260.	4.2	33
78	EEG and MEG: forward solutions for inverse methods. IEEE Transactions on Biomedical Engineering, 1999, 46, 245-259.	4.2	697
79	Source localization using recursively applied and projected (RAP) MUSIC. IEEE Transactions on Signal Processing, 1999, 47, 332-340.	5.3	327
80	EEG Source Localization and Imaging Using Multiple Signal Classification Approaches. Journal of Clinical Neurophysiology, 1999, 16, 225-238.	1.7	126
81	A study of dipole localization accuracy for MEG and EEG using a human skull phantom. Electroencephalography and Clinical Neurophysiology, 1998, 107, 159-173.	0.3	336
82	Recursive MUSIC: A framework for EEG and MEG source localization. IEEE Transactions on Biomedical Engineering, 1998, 45, 1342-1354.	4.2	325
83	MEG-based imaging of focal neuronal current sources. IEEE Transactions on Medical Imaging, 1997, 16, 338-348.	8.9	160
84	Fetal magnetocardiography: Methods for rapid data reduction. Review of Scientific Instruments, 1997, 68, 1587-1595.	1.3	4
85	Error bounds for EEG and MEG dipole source localization. Electroencephalography and Clinical Neurophysiology, 1993, 86, 303-321.	0.3	220
86	Multiple dipole modeling and localization from spatio-temporal MEG data. IEEE Transactions on Biomedical Engineering, 1992, 39, 541-557.	4.2	920
87	<title>Multiple dipole modeling of spatiotemporal MEG data</title>. , 1990, 1351, 364.		15