

Elena Boto

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2560858/publications.pdf>

Version: 2024-02-01

27
papers

2,884
citations

304743

22
h-index

526287

27
g-index

31
all docs

31
docs citations

31
times ranked

1486
citing authors

#	ARTICLE	IF	CITATIONS
1	Moving magnetoencephalography towards real-world applications with a wearable system. <i>Nature</i> , 2018, 555, 657-661.	27.8	795
2	A new generation of magnetoencephalography: Room temperature measurements using optically-pumped magnetometers. <i>NeuroImage</i> , 2017, 149, 404-414.	4.2	329
3	Optically pumped magnetometers: From quantum origins to multi-channel magnetoencephalography. <i>NeuroImage</i> , 2019, 199, 598-608.	4.2	186
4	Multi-channel whole-head OPM-MEG: Helmet design and a comparison with a conventional system. <i>NeuroImage</i> , 2020, 219, 116995.	4.2	164
5	A bi-planar coil system for nulling background magnetic fields in scalp mounted magnetoencephalography. <i>NeuroImage</i> , 2018, 181, 760-774.	4.2	143
6	On the Potential of a New Generation of Magnetometers for MEG: A Beamformer Simulation Study. <i>PLoS ONE</i> , 2016, 11, e0157655.	2.5	138
7	A tool for functional brain imaging with lifespan compliance. <i>Nature Communications</i> , 2019, 10, 4785.	12.8	96
8	Magnetoencephalography with optically pumped magnetometers (OPM-MEG): the next generation of functional neuroimaging. <i>Trends in Neurosciences</i> , 2022, 45, 621-634.	8.6	91
9	Towards OPM-MEG in a virtual reality environment. <i>NeuroImage</i> , 2019, 199, 408-417.	4.2	87
10	Wearable neuroimaging: Combining and contrasting magnetoencephalography and electroencephalography. <i>NeuroImage</i> , 2019, 201, 116099.	4.2	82
11	Triaxial detection of the neuromagnetic field using optically-pumped magnetometry: feasibility and application in children. <i>NeuroImage</i> , 2022, 252, 119027.	4.2	76
12	Theoretical advantages of a triaxial optically pumped magnetometer magnetoencephalography system. <i>NeuroImage</i> , 2021, 236, 118025.	4.2	73
13	Balanced, bi-planar magnetic field and field gradient coils for field compensation in wearable magnetoencephalography. <i>Scientific Reports</i> , 2019, 9, 14196.	3.3	72
14	Measuring functional connectivity with wearable MEG. <i>NeuroImage</i> , 2021, 230, 117815.	4.2	72
15	Optimising experimental design for MEG resting state functional connectivity measurement. <i>NeuroImage</i> , 2017, 155, 565-576.	4.2	67
16	Cognitive neuroscience using wearable magnetometer arrays: Non-invasive assessment of language function. <i>NeuroImage</i> , 2018, 181, 513-520.	4.2	56
17	Mouth magnetoencephalography: A unique perspective on the human hippocampus. <i>NeuroImage</i> , 2021, 225, 117443.	4.2	56
18	Precision magnetic field modelling and control for wearable magnetoencephalography. <i>NeuroImage</i> , 2021, 241, 118401.	4.2	54

#	ARTICLE	IF	CITATIONS
19	Imaging the human hippocampus with optically-pumped magnetoencephalography. <i>NeuroImage</i> , 2019, 203, 116192.	4.2	52
20	Optically pumped magnetoencephalography in epilepsy. <i>Annals of Clinical and Translational Neurology</i> , 2020, 7, 397-401.	3.7	43
21	Using OPM-MEG in contrasting magnetic environments. <i>NeuroImage</i> , 2022, 253, 119084.	4.2	33
22	Using optically pumped magnetometers to measure magnetoencephalographic signals in the human cerebellum. <i>Journal of Physiology</i> , 2019, 597, 4309-4324.	2.9	31
23	Pragmatic spatial sampling for wearable MEG arrays. <i>Scientific Reports</i> , 2020, 10, 21609.	3.3	23
24	Measuring the cortical tracking of speech with optically-pumped magnetometers. <i>NeuroImage</i> , 2021, 233, 117969.	4.2	22
25	Data-driven model optimization for optically pumped magnetometer sensor arrays. <i>Human Brain Mapping</i> , 2019, 40, 4357-4369.	3.6	16
26	Practical real-time MEG-based neural interfacing with optically pumped magnetometers. <i>BMC Biology</i> , 2021, 19, 158.	3.8	14
27	Magnetoencephalography Using Optically Pumped Magnetometers. , 2020, , 104-124.		1