

# Elena Boto

## List of Publications by Year in descending order

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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	Triaxial detection of the neuromagnetic field using optically-pumped magnetometry: feasibility and application in children. <i>NeuroImage</i> , 2022, 252, 119027.	4.2	76
2	Using OPM-MEG in contrasting magnetic environments. <i>NeuroImage</i> , 2022, 253, 119084.	4.2	33
3	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
4	Mouth magnetoencephalography: A unique perspective on the human hippocampus. <i>NeuroImage</i> , 2021, 225, 117443.	4.2	56
5	Measuring functional connectivity with wearable MEG. <i>NeuroImage</i> , 2021, 230, 117815.	4.2	72
6	Measuring the cortical tracking of speech with optically-pumped magnetometers. <i>NeuroImage</i> , 2021, 233, 117969.	4.2	22
7	Theoretical advantages of a triaxial optically pumped magnetometer magnetoencephalography system. <i>NeuroImage</i> , 2021, 236, 118025.	4.2	73
8	Practical real-time MEG-based neural interfacing with optically pumped magnetometers. <i>BMC Biology</i> , 2021, 19, 158.	3.8	14
9	Precision magnetic field modelling and control for wearable magnetoencephalography. <i>NeuroImage</i> , 2021, 241, 118401.	4.2	54
10	Pragmatic spatial sampling for wearable MEG arrays. <i>Scientific Reports</i> , 2020, 10, 21609.	3.3	23
11	Multi-channel whole-head OPM-MEG: Helmet design and a comparison with a conventional system. <i>NeuroImage</i> , 2020, 219, 116995.	4.2	164
12	Optically pumped magnetoencephalography in epilepsy. <i>Annals of Clinical and Translational Neurology</i> , 2020, 7, 397-401.	3.7	43
13	Magnetoencephalography Using Optically Pumped Magnetometers. , 2020, , 104-124.		1
14	Wearable neuroimaging: Combining and contrasting magnetoencephalography and electroencephalography. <i>NeuroImage</i> , 2019, 201, 116099.	4.2	82
15	Data-driven model optimization for optically pumped magnetometer sensor arrays. <i>Human Brain Mapping</i> , 2019, 40, 4357-4369.	3.6	16
16	Using optically pumped magnetometers to measure magnetoencephalographic signals in the human cerebellum. <i>Journal of Physiology</i> , 2019, 597, 4309-4324.	2.9	31
17	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
18	A tool for functional brain imaging with lifespan compliance. <i>Nature Communications</i> , 2019, 10, 4785.	12.8	96

#	ARTICLE	IF	CITATIONS
19	Imaging the human hippocampus with optically-pumped magnetoencephalography. <i>NeuroImage</i> , 2019, 203, 116192.	4.2	52
20	Optically pumped magnetometers: From quantum origins to multi-channel magnetoencephalography. <i>NeuroImage</i> , 2019, 199, 598-608.	4.2	186
21	Towards OPM-MEG in a virtual reality environment. <i>NeuroImage</i> , 2019, 199, 408-417.	4.2	87
22	Moving magnetoencephalography towards real-world applications with a wearable system. <i>Nature</i> , 2018, 555, 657-661.	27.8	795
23	Cognitive neuroscience using wearable magnetometer arrays: Non-invasive assessment of language function. <i>NeuroImage</i> , 2018, 181, 513-520.	4.2	56
24	A bi-planar coil system for nulling background magnetic fields in scalp mounted magnetoencephalography. <i>NeuroImage</i> , 2018, 181, 760-774.	4.2	143
25	A new generation of magnetoencephalography: Room temperature measurements using optically-pumped magnetometers. <i>NeuroImage</i> , 2017, 149, 404-414.	4.2	329
26	Optimising experimental design for MEG resting state functional connectivity measurement. <i>NeuroImage</i> , 2017, 155, 565-576.	4.2	67
27	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