

Niall Holmes

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

2,543
citations

304743

22
h-index

414414

32
g-index

45
all docs

45
docs citations

45
times ranked

1264
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	Optically pumped magnetometers: From quantum origins to multi-channel magnetoencephalography. <i>NeuroImage</i> , 2019, 199, 598-608.	4.2	186
3	Multi-channel whole-head OPM-MEG: Helmet design and a comparison with a conventional system. <i>NeuroImage</i> , 2020, 219, 116995.	4.2	164
4	A bi-planar coil system for nulling background magnetic fields in scalp mounted magnetoencephalography. <i>NeuroImage</i> , 2018, 181, 760-774.	4.2	143
5	A tool for functional brain imaging with lifespan compliance. <i>Nature Communications</i> , 2019, 10, 4785.	12.8	96
6	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
7	Towards OPM-MEG in a virtual reality environment. <i>NeuroImage</i> , 2019, 199, 408-417.	4.2	87
8	Wearable neuroimaging: Combining and contrasting magnetoencephalography and electroencephalography. <i>NeuroImage</i> , 2019, 201, 116099.	4.2	82
9	Triaxial detection of the neuromagnetic field using optically-pumped magnetometry: feasibility and application in children. <i>NeuroImage</i> , 2022, 252, 119027.	4.2	76
10	Theoretical advantages of a triaxial optically pumped magnetometer magnetoencephalography system. <i>NeuroImage</i> , 2021, 236, 118025.	4.2	73
11	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
12	Measuring functional connectivity with wearable MEG. <i>NeuroImage</i> , 2021, 230, 117815.	4.2	72
13	Cognitive neuroscience using wearable magnetometer arrays: Non-invasive assessment of language function. <i>NeuroImage</i> , 2018, 181, 513-520.	4.2	56
14	Mouth magnetoencephalography: A unique perspective on the human hippocampus. <i>NeuroImage</i> , 2021, 225, 117443.	4.2	56
15	Precision magnetic field modelling and control for wearable magnetoencephalography. <i>NeuroImage</i> , 2021, 241, 118401.	4.2	54
16	On-Scalp Optically Pumped Magnetometers versus Cryogenic Magnetoencephalography for Diagnostic Evaluation of Epilepsy in School-aged Children. <i>Radiology</i> , 2022, 304, 429-434.	7.3	54
17	Imaging the human hippocampus with optically-pumped magnetoencephalography. <i>NeuroImage</i> , 2019, 203, 116192.	4.2	52
18	Optically pumped magnetoencephalography in epilepsy. <i>Annals of Clinical and Translational Neurology</i> , 2020, 7, 397-401.	3.7	43

#	ARTICLE	IF	CITATIONS
19	Modelling optically pumped magnetometer interference in MEG as a spatially homogeneous magnetic field. <i>NeuroImage</i> , 2021, 244, 118484.	4.2	36
20	Using OPM-MEG in contrasting magnetic environments. <i>NeuroImage</i> , 2022, 253, 119084.	4.2	33
21	Using optically pumped magnetometers to measure magnetoencephalographic signals in the human cerebellum. <i>Journal of Physiology</i> , 2019, 597, 4309-4324.	2.9	31
22	Magnetic Field Mapping and Correction for Moving OP-MEG. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 528-536.	4.2	26
23	Optimal Inverse Design of Magnetic Field Profiles in a Magnetically Shielded Cylinder. <i>Physical Review Applied</i> , 2020, 14, .	3.8	24
24	Pragmatic spatial sampling for wearable MEG arrays. <i>Scientific Reports</i> , 2020, 10, 21609.	3.3	23
25	Measuring the cortical tracking of speech with optically-pumped magnetometers. <i>NeuroImage</i> , 2021, 233, 117969.	4.2	22
26	Data-driven model optimization for optically pumped magnetometer sensor arrays. <i>Human Brain Mapping</i> , 2019, 40, 4357-4369.	3.6	16
27	Practical real-time MEG-based neural interfacing with optically pumped magnetometers. <i>BMC Biology</i> , 2021, 19, 158.	3.8	14
28	Planar Coil Optimization in a Magnetically Shielded Cylinder. <i>Physical Review Applied</i> , 2021, 15, .	3.8	13
29	Magnetic field design in a cylindrical high-permeability shield: The combination of simple building blocks and a genetic algorithm. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	13
30	Bespoke magnetic field design for a magnetically shielded cold atom interferometer. <i>Scientific Reports</i> , 2022, 12, .	3.3	8
31	Updating Dynamic Noise Models With Moving Magnetoencephalographic (MEG) Systems. <i>IEEE Access</i> , 2019, 7, 10093-10102.	4.2	5
32	Optimised hybrid shielding and magnetic field control for emerging quantum technologies. , 2021, , .		2