

Niall Holmes

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2663584/publications.pdf>

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	Magnetic Field Mapping and Correction for Moving OP-MEG. IEEE Transactions on Biomedical Engineering, 2022, 69, 528-536.	4.2	26
2	Magnetic field design in a cylindrical high-permeability shield: The combination of simple building blocks and a genetic algorithm. Journal of Applied Physics, 2022, 131, .	2.5	13
3	Triaxial detection of the neuromagnetic field using optically-pumped magnetometry: feasibility and application in children. NeuroImage, 2022, 252, 119027.	4.2	76
4	Using OPM-MEG in contrasting magnetic environments. NeuroImage, 2022, 253, 119084.	4.2	33
5	On-Scalp Optically Pumped Magnetometers versus Cryogenic Magnetoencephalography for Diagnostic Evaluation of Epilepsy in School-aged Children. Radiology, 2022, 304, 429-434.	7.3	54
6	Bespoke magnetic field design for a magnetically shielded cold atom interferometer. Scientific Reports, 2022, 12, .	3.3	8
7	Magnetoencephalography with optically pumped magnetometers (OPM-MEG): the next generation of functional neuroimaging. Trends in Neurosciences, 2022, 45, 621-634.	8.6	91
8	Mouth magnetoencephalography: A unique perspective on the human hippocampus. NeuroImage, 2021, 225, 117443.	4.2	56
9	Measuring functional connectivity with wearable MEG. NeuroImage, 2021, 230, 117815.	4.2	72
10	Planar Coil Optimization in a Magnetically Shielded Cylinder. Physical Review Applied, 2021, 15, .	3.8	13
11	Measuring the cortical tracking of speech with optically-pumped magnetometers. NeuroImage, 2021, 233, 117969.	4.2	22
12	Theoretical advantages of a triaxial optically pumped magnetometer magnetoencephalography system. NeuroImage, 2021, 236, 118025.	4.2	73
13	Practical real-time MEG-based neural interfacing with optically pumped magnetometers. BMC Biology, 2021, 19, 158.	3.8	14
14	Precision magnetic field modelling and control for wearable magnetoencephalography. NeuroImage, 2021, 241, 118401.	4.2	54
15	Modelling optically pumped magnetometer interference in MEG as a spatially homogeneous magnetic field. NeuroImage, 2021, 244, 118484.	4.2	36
16	Optimised hybrid shielding and magnetic field control for emerging quantum technologies. , 2021, , .		2
17	Optimal Inverse Design of Magnetic Field Profiles in a Magnetically Shielded Cylinder. Physical Review Applied, 2020, 14, .	3.8	24
18	Pragmatic spatial sampling for wearable MEG arrays. Scientific Reports, 2020, 10, 21609.	3.3	23

#	ARTICLE	IF	CITATIONS
19	Multi-channel whole-head OPM-MEG: Helmet design and a comparison with a conventional system. <i>NeuroImage</i> , 2020, 219, 116995.	4.2	164
20	Optically pumped magnetoencephalography in epilepsy. <i>Annals of Clinical and Translational Neurology</i> , 2020, 7, 397-401.	3.7	43
21	Wearable neuroimaging: Combining and contrasting magnetoencephalography and electroencephalography. <i>NeuroImage</i> , 2019, 201, 116099.	4.2	82
22	Data-driven model optimization for optically pumped magnetometer sensor arrays. <i>Human Brain Mapping</i> , 2019, 40, 4357-4369.	3.6	16
23	Using optically pumped magnetometers to measure magnetoencephalographic signals in the human cerebellum. <i>Journal of Physiology</i> , 2019, 597, 4309-4324.	2.9	31
24	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
25	A tool for functional brain imaging with lifespan compliance. <i>Nature Communications</i> , 2019, 10, 4785.	12.8	96
26	Imaging the human hippocampus with optically-pumped magnetoencephalography. <i>NeuroImage</i> , 2019, 203, 116192.	4.2	52
27	Optically pumped magnetometers: From quantum origins to multi-channel magnetoencephalography. <i>NeuroImage</i> , 2019, 199, 598-608.	4.2	186
28	Towards OPM-MEG in a virtual reality environment. <i>NeuroImage</i> , 2019, 199, 408-417.	4.2	87
29	Updating Dynamic Noise Models With Moving Magnetoencephalographic (MEG) Systems. <i>IEEE Access</i> , 2019, 7, 10093-10102.	4.2	5
30	Moving magnetoencephalography towards real-world applications with a wearable system. <i>Nature</i> , 2018, 555, 657-661.	27.8	795
31	Cognitive neuroscience using wearable magnetometer arrays: Non-invasive assessment of language function. <i>NeuroImage</i> , 2018, 181, 513-520.	4.2	56
32	A bi-planar coil system for nulling background magnetic fields in scalp mounted magnetoencephalography. <i>NeuroImage</i> , 2018, 181, 760-774.	4.2	143