

Rainer KÄrber

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

350
citations

1040056

9
h-index

839539

18
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23
all docs

23
docs citations

23
times ranked

366
citing authors

#	ARTICLE	IF	CITATIONS
1	Pulsed Optically Pumped Magnetometers: Addressing Dead Time and Bandwidth for the Unshielded Magnetorelaxometry of Magnetic Nanoparticles. <i>Sensors</i> , 2021, 21, 1212.	3.8	15
2	Noninvasive neuromagnetic single-trial analysis of human neocortical population spikes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	12
3	Erratum to "Towards Ultrasensitive SQUIDs Based on Submicrometer-Sized Josephson Junctions" [Oct 20 Art. no. 1600705]. <i>IEEE Transactions on Applied Superconductivity</i> , 2020, 30, 1-2.	1.7	0
4	Towards Ultrasensitive SQUIDs Based on Submicrometer-Sized Josephson Junctions. <i>IEEE Transactions on Applied Superconductivity</i> , 2020, 30, 1-5.	1.7	4
5	Evaluating the Performance of Ultra-Low-Field MRI for in-vivo 3D Current Density Imaging of the Human Head. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	2
6	Detection of body noise with an ultra-sensitive SQUID system. <i>Measurement Science and Technology</i> , 2019, 30, 125103.	2.6	9
7	Ultra-sensitive SQUID systems for applications in biomagnetism and ultra-low field MRI. , 2019, , .		1
8	Ultra-sensitive SQUID Systems for Pulsed Fields "Degaussing Superconducting Pick-Up Coils. <i>IEEE Transactions on Applied Superconductivity</i> , 2018, 28, 1-5.	1.7	4
9	An ultra-sensitive and wideband magnetometer based on a superconducting quantum interference device. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	66
10	Improved Thermal Insulation Performance for Structured Metallic Coatings to Reduce Thermal Noise in Superinsulation. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-3.	1.7	1
11	SQUIDs in biomagnetism: a roadmap towards improved healthcare. <i>Superconductor Science and Technology</i> , 2016, 29, 113001.	3.5	67
12	Superconductors in SQUID-Based Ultralow Field NMR "Flux-Trapping in Type-II Wires. <i>IEEE Transactions on Applied Superconductivity</i> , 2015, 25, 1-4.	1.7	4
13	Type-I superconductor pick-up coil in superconducting quantum interference device-based ultra-low field nuclear magnetic resonance. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	20
14	Neuronal Current Imaging with Ultra-Low-Field NMR Techniques. , 2014, , 973-978.		0
15	An advanced phantom study assessing the feasibility of neuronal current imaging by ultra-low-field NMR. <i>Journal of Magnetic Resonance</i> , 2013, 237, 182-190.	2.1	23
16	Magnetic resonance imaging at frequencies below 1 kHz. <i>Magnetic Resonance Imaging</i> , 2013, 31, 171-177.	1.8	33
17	Measures to reduce the residual field and field gradient inside a magnetically shielded room by a factor of more than 10. <i>Metrology and Measurement Systems</i> , 2013, 20, 239-248.	1.4	32
18	Are brain currents detectable by means of low-field NMR? A phantom study. <i>Magnetic Resonance Imaging</i> , 2011, 29, 1365-1373.	1.8	24

#	ARTICLE	IF	CITATIONS
19	Simultaneous measurements of somatosensory evoked AC and near-DC MEG signals. Biomedizinische Technik, 2011, 56, 91-97.	0.8	6
20	On the feasibility of neurocurrent imaging by low-field nuclear magnetic resonance. Applied Physics Letters, 2010, 96, 233701.	3.3	26