# Rainer KÃ¶rber

List of Publications by Year
in descending order



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|---|---|---|---|
| 20 papers | 350 citations | 1040056 9 h-index | 839539 18 g-index |
| 23 all docs | 23 docs citations | 23 times ranked | 366 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | SQUIDs in biomagnetism: a roadmap towards improved healthcare. Superconductor Science and Technology, 2016, 29, 113001. | 3.5 | 67 |
| 2 | An ultra-sensitive and wideband magnetometer based on a superconducting quantum interference device. Applied Physics Letters, 2017, 110, . | 3.3 | 66 |
| 3 | Magnetic resonance imaging at frequencies below 1 kHz. Magnetic Resonance Imaging, 2013, 31, 171-177. | 1.8 | 33 |
| 4 | Measures to reduce the residual field and field gradient inside a magnetically shielded room by a factor of more than 10. Metrology and Measurement Systems, 2013, 20, 239-248. | 1.4 | 32 |
| 5 | On the feasibility of neurocurrent imaging by low-field nuclear magnetic resonance. Applied Physics Letters, 2010, 96, 233701. | 3.3 | 26 |
| 6 | Are brain currents detectable by means of low-field NMR? A phantom study. Magnetic Resonance Imaging, 2011, 29, 1365-1373. | 1.8 | 24 |
| 7 | An advanced phantom study assessing the feasibility of neuronal current imaging by ultra-low-field NMR. Journal of Magnetic Resonance, 2013, 237, 182-190. | 2.1 | 23 |
| 8 | Type-I superconductor pick-up coil in superconducting quantum interference device-based ultra-low field nuclear magnetic resonance. Applied Physics Letters, 2014, 104, . | 3.3 | 20 |
| 9 | Pulsed Optically Pumped Magnetometers: Addressing Dead Time and Bandwidth for the Unshielded Magnetorelaxometry of Magnetic Nanoparticles. Sensors, 2021, 21, 1212. | 3.8 | 15 |
| 10 | Noninvasive neuromagnetic single-trial analysis of human neocortical population spikes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 12 |
| 11 | Detection of body noise with an ultra-sensitive SQUID system. Measurement Science and Technology, 2019, 30, 125103. | 2.6 | 9 |
| 12 | Simultaneous measurements of somatosensory evoked AC and near-DC MEG signals. Biomedizinische Technik, 2011, 56, 91-97. | 0.8 | 6 |
| 13 | Superconductors in SQUID-Based Ultralow Field NMRâ€"Flux-Trapping in Type-II Wires. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4. | 1.7 | 4 |
| 14 | Ultra-sensitive SQUID Systems for Pulsed Fieldsâ€"Degaussing Superconducting Pick-Up Coils. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5. | 1.7 | 4 |
| 15 | Towards Ultrasensitive SQUIDs Based on Submicrometer-Sized Josephson Junctions. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5. | 1.7 | 4 |
| 16 | Evaluating the Performance of Ultra-Low-Field MRI for in-vivo 3D Current Density Imaging of the Human Head. Frontiers in Physics, 2020, 8, . | 2.1 | 2 |
| 17 | Improved Thermal Insulation Performance for Structured Metallic Coatings to Reduce Thermal Noise in Superinsulation. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-3. | 1.7 | 1 |
| 18 | Ultra-sensitive SQUID systems for applications in biomagnetism and ultra-low field MRI. , 2019, , . | | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Erratum to â€œTowards Ultrasensitive SQUIDs Based on Submicrometer-Sized Josephson Junctionsâ€•[Oct 20 Art. no. 1600705]. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-2. | 1.7 | 0 |
| 20 | Neuronal Current Imaging with Ultra-Low-Field NMR Techniques. , 2014, , 973-978. | | 0 |