Hui Dong

List of Publications by Year
in descending order

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49 papers	710 citations	623734 14 h-index	580821 25 g-index
53 all docs	53 docs citations	53 times ranked	757 citing authors

#	Article	IF	Citations
1	Carbonâ€•Based Quantum Dots with Solidâ€•State Photoluminescent: Mechanism, Implementation, and Application. Small, 2020, 16, e2004621.	10.0	141
2	SQUIDs in biomagnetism: a roadmap towards improved healthcare. Superconductor Science and Technology, 2016, 29, 113001.	3.5	67
3	Enhancing the magnetic relaxivity of MRI contrast agents via the localized superacid microenvironment of graphene quantum dots. Biomaterials, 2020, 250, 120056.	11.4	48
4	Magnetic graphene quantum dots facilitate closed-tube one-step detection of SARS-CoV-2 with ultra-low field NMR relaxometry. Sensors and Actuators B: Chemical, 2021, 337, 129786.	7.8	40
5	A voltage biased superconducting quantum interference device bootstrap circuit. Superconductor Science and Technology, 2010, 23, 065016.	3.5	35
6	A magnetic nanoparticles relaxation sensor for proteinâ€“protein interaction detection at ultra-low magnetic field. Biosensors and Bioelectronics, 2016, 80, 661-665.	10.1	35
7	Ultra-low field magnetic resonance imaging detection with gradient tensor compensation in urban unshielded environment. Applied Physics Letters, 2013, 102, .	3.3	23
8	Suppression of ringing in the tuned input circuit of a SQUID detector used in low-field NMR measurements. Superconductor Science and Technology, 2009, 22, 125022.	3.5	21
9	Overview of low-field NMR measurements using HTS rf-SQUIDs. Physica C: Superconductivity and Its Applications, 2009, 469, 1624-1629.	1.2	21
10	Polarizing Graphene Quantum Dots toward Long-Acting Intracellular Reactive Oxygen Species Evaluation and Tumor Detection. ACS Applied Materials & Interfaces, 2020, 12, 10781-10790.	8.0	21
11	Dynamical cancellation of pulse-induced transients in a metallic shielded room for ultra-low-field magnetic resonance imaging. Applied Physics Letters, 2015, 106, .	3.3	16
12	Adaptive suppression of power line interference in ultra-low field magnetic resonance imaging in an unshielded environment. Journal of Magnetic Resonance, 2018, 286, 52-59.	2.1	16
13	Detection of proton NMR signal in the Earthâ€™s magnetic field at an urban laboratory environment without shielding. Superconductor Science and Technology, 2008, 21, 115009.	3.5	15
14	Relaxation Behavior Study of Ultrasmall Superparamagnetic Iron Oxide Nanoparticles at Ultralow and Ultrahigh Magnetic Fields. Journal of Physical Chemistry B, 2011, 115, 14789-14793.	2.6	15
15	Low-field MRI measurements using a tuned HTS SQUID as detector and permanent magnet pre-polarization field. Superconductor Science and Technology, 2012, 25, 075013.	3.5	14
16	Low Field MRI Detection With Tuned HTS SQUID Magnetometer. IEEE Transactions on Applied Superconductivity, 2011, 21, 509-513.	1.7	12
17	Size and Compositional Effects on Contrast Efficiency of Functionalized Superparamagnetic Nanoparticles at Ultralow and Ultrahigh Magnetic Fields. Journal of Physical Chemistry C, 2012, 116, 17880-17884.	3.1	12
18	Ultra-low noise graphene/copper/nylon fabric for electromagnetic interference shielding in ultra-low field magnetic resonance imaging. Journal of Magnetic Resonance, 2020, 317, 106775.	2.1	12

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19	Comparison of Noise Performance of the dc SQUID Bootstrap Circuit With That of the Standard Flux Modulation dc SQUID Readout Scheme. IEEE Transactions on Applied Superconductivity, 2011, 21, 501-504.	1.7	10
20	An approach to optimization of the superconducting quantum interference device bootstrap circuit. Superconductor Science and Technology, 2011, 24, 065023.	3.5	10
21	Voltage Biased SQUID Bootstrap Circuit: Circuit Model and Numerical Simulation. IEEE Transactions on Applied Superconductivity, 2011, 21, 354-357.	1.7	9
22	A SQUID gradiometer module with wire-wound pickup antenna and integrated voltage feedback circuit. Physica C: Superconductivity and Its Applications, 2012, 480, 10-13.	1.2	9
23	Magnetic Field Improved ULF-NMR Measurement in an Unshielded Laboratory Using a Low-Tc SQUID. Physics Procedia, 2012, 36, 388-393.	1.2	8
24	Tuned HTS SQUID-Detected Low Field MRI Using a Permanent Magnet for Pre-polarization With Automatic Transportation. IEEE Transactions on Applied Superconductivity, 2013, 23, 1601104-1601104.	1.7	8
25	Fluorination Triggers Fluoroalkylation: Nucleophilic Perfluoroâ€<i>tert</i>â€butylation with 1,1â€Dibromoâ€2,2â€bis(trifluoromethyl)ethylene (DBBF) and CsF. Angewandte Chemie - International Edition, 2021, 60, 27318-27323.	13.8	8
26	Parameter tolerance of the SQUID bootstrap circuit. Superconductor Science and Technology, 2012, 25, 015006.	3.5	7
27	Effect of magnetic field fluctuation on ultra-low field MRI measurements in the unshielded laboratory environment. Journal of Magnetic Resonance, 2015, 257, 8-14.	2.1	6
28	Performance study of aluminum shielded room for ultra-low-field magnetic resonance imaging based on SQUID: Simulations and experiments. Chinese Physics B, 2018, 27, 020701.	1.4	6
29	Noise Compensation of a Mobile LTS SQUID Planar Gradiometer for Aeromagnetic Detection. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	6
30	Comparison of different detectors in low field NMR measurements. Journal of Physics: Conference Series, 2010, 234, 042008.	0.4	5
31	Ultralowâ€field and spinâ€locking relaxation dispersion in postmortem pig brain. Magnetic Resonance in Medicine, 2017, 78, 2342-2351.	3.0	5
32	High-Performance Dual-Channel Squid-Based TEM System and Its Application. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	5
33	Selective coordination and localized polarization in graphene quantum dots: Detection of fluoride anions using ultra-low-field NMR relaxometry. Chinese Chemical Letters, 2021, 32, 3921-3926.	9.0	5
34	Permanent Magnet Pre-Polarization in Low Field MRI Measurements Using SQUID. Physics Procedia, 2012, 36, 274-279.	1.2	4
35	The Effect of Low Frequency Disturbance to SQUID Based Low Field NMR. IEEE Transactions on Applied Superconductivity, 2009, 19, 827-830.	1.7	3
36	Time-Domain Frequency Correction Method for Averaging Low-Field NMR Signals Acquired in Urban Laboratory Environment. Chinese Physics Letters, 2012, 29, 107601.	3.3	3

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37	Multichannel ULF-MRI Study in Magnetic Unshielded Urban Laboratory Environment. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	3
38	Field Dependence Study of Commercial Gd Chelates With SQUID Detection. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	3
39	Simulation and Measurements of Transient Fields From Conductive Plates of Shielded Room for SQUID-Based Ultralow Field Magnetic Resonance Imaging. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	3
40	Carbonâ€Based Quantum Dots: Carbonâ€Based Quantum Dots with Solidâ€State Photoluminescent: Mechanism, Implementation, and Application (Small 48/2020). Small, 2020, 16, 2070262.	10.0	3
41	Fluorination Triggers Fluoroalkylation: Nucleophilic Perfluoroâ€tertâ€butylation with DBBF and CsF. Angewandte Chemie, 2021, 133, 27524.	2.0	3
42	Effect of voltage source internal resistance on the SQUID bootstrap circuit. Superconductor Science and Technology, 2012, 25, 015012.	3.5	2
43	Noise Behavior of SQUID Bootstrap Circuit Studied by Numerical Simulation. Physics Procedia, 2012, 36, 127-132.	1.2	2
44	Sensor Configuration and Algorithms for Power-Line Interference Suppression in Low Field Nuclear Magnetic Resonance. Sensors, 2019, 19, 3566.	3.8	2
45	Wide Range SQUID Amplifier With Proportional Feedback for Flux Quanta Counting Scheme. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	1
46	Effect of HTS Superconductors on Homogeneity of Measurement Field in Low Field Nuclear Magnetic Resonance Detection. Chinese Physics Letters, 2010, 27, 088502.	3.3	0
47	Bias Reversal Technique in SQUID Bootstrap Circuit (SBC) Scheme. Physics Procedia, 2012, 36, 441-446.	1.2	0
48	Biomagnetic Sensing. Springer Series on Chemical Sensors and Biosensors, 2017, , 449-474.	0.5	0
49	A Practical Two-Stage SQUID Readout Circuit Improved With Proportional Feedback Schemes. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-6.	1.7	0