

Friedemann Reinhard

List of Publications by Year in descending order

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32
papers

5,287
citations

304743

22
h-index

454955

30
g-index

32
all docs

32
docs citations

32
times ranked

5134
citing authors

#	ARTICLE	IF	CITATIONS
1	Dispersive readout of room-temperature ensemble spin sensors. <i>Quantum Science and Technology</i> , 2021, 6, 03LT01.	5.8	9
2	Decoherence mitigation by real-time noise acquisition. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	1
3	Robust all-optical single-shot readout of nitrogen-vacancy centers in diamond. <i>Nature Communications</i> , 2021, 12, 532.	12.8	40
4	Photoionization of negatively charged NV centers in diamond: Theory and <i>ab initio</i> calculations. <i>Physical Review B</i> , 2021, 104, .	3.2	25
5	Detection of cellular micromotion by advanced signal processing. <i>Scientific Reports</i> , 2020, 10, 20078.	3.3	0
6	Can surface-transfer doping and UV irradiation during annealing improve shallow implanted nitrogen-vacancy centers in diamond?. <i>Applied Physics Letters</i> , 2020, 117, 054003.	3.3	2
7	A Planar Scanning Probe Microscope. <i>ACS Photonics</i> , 2019, 6, 327-331.	6.6	8
8	Effect of ultraprecision polishing techniques on coherence times of shallow nitrogen-vacancy centers in diamond. <i>Diamond and Related Materials</i> , 2018, 85, 18-22.	3.9	6
9	Diamond defects detect what lies beneath. <i>Nature Electronics</i> , 2018, 1, 494-495.	26.0	0
10	Efficient Electrical Spin Readout of $NV^{\hat{a}}$ Centers in Diamond. <i>Physical Review Letters</i> , 2017, 118, 037601.	7.8	58
11	Quantum sensing. <i>Reviews of Modern Physics</i> , 2017, 89, .	45.6	1,911
12	Holography of Wi-fi Radiation. <i>Physical Review Letters</i> , 2017, 118, 183901.	7.8	47
13	Quantum sensing of weak radio-frequency signals by pulsed Mollow absorption spectroscopy. <i>Nature Communications</i> , 2017, 8, 964.	12.8	44
14	Nanoscale nuclear magnetic imaging with chemical contrast. <i>Nature Nanotechnology</i> , 2015, 10, 125-128.	31.5	105
15	Single-protein spin resonance spectroscopy under ambient conditions. <i>Science</i> , 2015, 347, 1135-1138.	12.6	283
16	Relaxometry and Dephasing Imaging of Superparamagnetic Magnetite Nanoparticles Using a Single Qubit. <i>Nano Letters</i> , 2015, 15, 4942-4947.	9.1	47
17	Probing molecular dynamics at the nanoscale via an individual paramagnetic centre. <i>Nature Communications</i> , 2015, 6, 8527.	12.8	81
18	Nanoengineered Diamond Waveguide as a Robust Bright Platform for Nanomagnetometry Using Shallow Nitrogen Vacancy Centers. <i>Nano Letters</i> , 2015, 15, 165-169.	9.1	137

#	ARTICLE	IF	CITATIONS
19	Tracking Temperature-Dependent Relaxation Times of Ferritin Nanomagnets with a Wideband Quantum Spectrometer. <i>Physical Review Letters</i> , 2014, 113, 217204.	7.8	50
20	Addressing Single Nitrogen-Vacancy Centers in Diamond with Transparent in-Plane Gate Structures. <i>Nano Letters</i> , 2014, 14, 2359-2364.	9.1	45
21	Nuclear Magnetic Resonance Spectroscopy on a (5-Nanometer) ³ Sample Volume. <i>Science</i> , 2013, 339, 561-563.	12.6	674
22	Single Defect Center Scanning Near-Field Optical Microscopy on Graphene. <i>Nano Letters</i> , 2013, 13, 3152-3156.	9.1	83
23	Quantum logic readout and cooling of a single dark electron spin. <i>Physical Review B</i> , 2013, 87, .	3.2	23
24	High-Dynamic-Range Imaging of Nanoscale Magnetic Fields Using Optimal Control of a Single Qubit. <i>Physical Review Letters</i> , 2013, 111, 170801.	7.8	36
25	Tuning a Spin Bath through the Quantum-Classical Transition. <i>Physical Review Letters</i> , 2012, 108, 200402.	7.8	52
26	Enhancing the spin properties of shallow implanted nitrogen vacancy centers in diamond by epitaxial overgrowth. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	52
27	Chemical control of the charge state of nitrogen-vacancy centers in diamond. <i>Physical Review B</i> , 2011, 83, .	3.2	272
28	Electric-field sensing using single diamond spins. <i>Nature Physics</i> , 2011, 7, 459-463.	16.7	942
29	Highly Efficient FRET from a Single Nitrogen-Vacancy Center in Nanodiamonds to a Single Organic Molecule. <i>ACS Nano</i> , 2011, 5, 7893-7898.	14.6	112
30	Compact frequency standard using atoms trapped on a chip. <i>Advances in Space Research</i> , 2011, 47, 247-252.	2.6	11
31	Increasing the coherence time of single electron spins in diamond by high temperature annealing. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	115
32	g_permute: Permutation-reduced phase space density compaction. <i>Computer Physics Communications</i> , 2009, 180, 455-458.	7.5	16