

Andrey Jarmola

List of Publications by Citations

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32
papers

1,897
citations

22
h-index

32
g-index

32
ext. papers

2,341
ext. citations

7.7
avg, IF

4.67
L-index

#	Paper	IF	Citations
32	Solid-state electronic spin coherence time approaching one second. <i>Nature Communications</i> , 2013 , 4, 1743	17.4	396
31	Temperature- and magnetic-field-dependent longitudinal spin relaxation in nitrogen-vacancy ensembles in diamond. <i>Physical Review Letters</i> , 2012 , 108, 197601	7.4	228
30	Optical properties of the nitrogen-vacancy singlet levels in diamond. <i>Physical Review B</i> , 2010 , 82,	3.3	125
29	Photoelectric detection of electron spin resonance of nitrogen-vacancy centres in diamond. <i>Nature Communications</i> , 2015 , 6, 8577	17.4	102
28	Broadband magnetometry by infrared-absorption detection of nitrogen-vacancy ensembles in diamond. <i>Applied Physics Letters</i> , 2010 , 97, 174104	3.4	101
27	Cavity-enhanced room-temperature magnetometry using absorption by nitrogen-vacancy centers in diamond. <i>Physical Review Letters</i> , 2014 , 112, 160802	7.4	90
26	Temperature shifts of the resonances of the NV \bar{C} center in diamond. <i>Physical Review B</i> , 2014 , 90,	3.3	90
25	Gyroscopes based on nitrogen-vacancy centers in diamond. <i>Physical Review A</i> , 2012 , 86,	2.6	77
24	Optical polarization of nuclear ensembles in diamond. <i>Physical Review B</i> , 2013 , 87,	3.3	69
23	Detection of nanoscale electron spin resonance spectra demonstrated using nitrogen-vacancy centre probes in diamond. <i>Nature Communications</i> , 2016 , 7, 10211	17.4	65
22	Optimizing a dynamical decoupling protocol for solid-state electronic spin ensembles in diamond. <i>Physical Review B</i> , 2015 , 92,	3.3	55
21	Light narrowing of magnetic resonances in ensembles of nitrogen-vacancy centers in diamond. <i>Physical Review B</i> , 2013 , 87,	3.3	54
20	Imaging the Local Charge Environment of Nitrogen-Vacancy Centers in Diamond. <i>Physical Review Letters</i> , 2018 , 121, 246402	7.4	54
19	Infrared absorption band and vibronic structure of the nitrogen-vacancy center in diamond. <i>Physical Review B</i> , 2013 , 88,	3.3	48
18	Two-dimensional nuclear magnetic resonance spectroscopy with a microfluidic diamond quantum sensor. <i>Science Advances</i> , 2019 , 5, eaaw7895	14.3	44
17	Solution nuclear magnetic resonance spectroscopy on a nanostructured diamond chip. <i>Nature Communications</i> , 2017 , 8, 188	17.4	44
16	Magnetometry with nitrogen-vacancy ensembles in diamond based on infrared absorption in a doubly resonant optical cavity. <i>Physical Review B</i> , 2013 , 87,	3.3	44

15	Longitudinal spin relaxation in nitrogen-vacancy ensembles in diamond. <i>EPJ Quantum Technology</i> , 2015 , 2,	6.9	38
14	Microwave saturation spectroscopy of nitrogen-vacancy ensembles in diamond. <i>Physical Review B</i> , 2014 , 89,	3.3	29
13	Diamond magnetometer enhanced by ferrite flux concentrators. <i>Physical Review Research</i> , 2020 , 2,	3.9	29
12	Diamond Magnetic Microscopy of Malarial Hemozoin Nanocrystals. <i>Physical Review Applied</i> , 2019 , 11,	4.3	25
11	Longitudinal spin-relaxation in nitrogen-vacancy centers in electron irradiated diamond. <i>Applied Physics Letters</i> , 2015 , 107, 242403	3.4	24
10	Sidebands in optically detected magnetic resonance signals of nitrogen vacancy centers in diamond. <i>Physical Review B</i> , 2013 , 87,	3.3	21
9	Spin-lattice relaxation of individual solid-state spins. <i>Physical Review B</i> , 2018 , 97,	3.3	18
8	Spin ensemble-based AC magnetometry using concatenated dynamical decoupling at low temperatures. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 024008	1.7	5
7	Robust optical readout and characterization of nuclear spin transitions in nitrogen-vacancy ensembles in diamond. <i>Physical Review Research</i> , 2020 , 2,	3.9	5
6	Optically detected magnetic resonances of nitrogen-vacancy ensembles in C13-enriched diamond. <i>Physical Review B</i> , 2016 , 94,	3.3	4
5	Optically Enhanced Electric Field Sensing Using Nitrogen-Vacancy Ensembles. <i>Physical Review Applied</i> , 2021 , 16,	4.3	4
4	Emergent hydrodynamics in a strongly interacting dipolar spin ensemble. <i>Nature</i> , 2021 , 597, 45-50	50.4	4
3	Demonstration of diamond nuclear spin gyroscope. <i>Science Advances</i> , 2021 , 7, eabl3840	14.3	3
2	Improving the coherence properties of solid-state spin ensembles via optimized dynamical decoupling 2016 ,		1
1	Determination of local defect density in diamond by double electron-electron resonance. <i>Physical Review B</i> , 2021 , 104,	3.3	1