Andrey Jarmola

List of Publications by Year in Descending Order

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	Demonstration of diamond nuclear spin gyroscope. *Science Advances*, **2021**, 7, eabl3840	14.3	3
31	Optically Enhanced Electric Field Sensing Using Nitrogen-Vacancy Ensembles. *Physical Review Applied*, **2021**, 16,	4.3	4
30	Emergent hydrodynamics in a strongly interacting dipolar spin ensemble. *Nature*, **2021**, 597, 45-50	50.4	4
29	Determination of local defect density in diamond by double electron-electron resonance. *Physical Review B*, **2021**, 104,	3.3	1
28	Robust optical readout and characterization of nuclear spin transitions in nitrogen-vacancy ensembles in diamond. *Physical Review Research*, **2020**, 2,	3.9	5
27	Diamond magnetometer enhanced by ferrite flux concentrators. *Physical Review Research*, **2020**, 2,	3.9	29
26	Diamond Magnetic Microscopy of Malarial Hemozoin Nanocrystals. *Physical Review Applied*, **2019**, 11,	4.3	25
25	Two-dimensional nuclear magnetic resonance spectroscopy with a microfluidic diamond quantum sensor. *Science Advances*, **2019**, 5, eaaw7895	14.3	44
24	Spin ensemble-based AC magnetometry using concatenated dynamical decoupling at low temperatures. *Journal of Optics (United Kingdom)*, **2018**, 20, 024008	1.7	5
23	Spin-lattice relaxation of individual solid-state spins. *Physical Review B*, **2018**, 97,	3.3	18
22	Imaging the Local Charge Environment of Nitrogen-Vacancy Centers in Diamond. *Physical Review Letters*, **2018**, 121, 246402	7.4	54
21	Solution nuclear magnetic resonance spectroscopy on a nanostructured diamond chip. *Nature Communications*, **2017**, 8, 188	17.4	44
20	Improving the coherence properties of solid-state spin ensembles via optimized dynamical decoupling **2016**,		1
19	Detection of nanoscale electron spin resonance spectra demonstrated using nitrogen-vacancy centre probes in diamond. *Nature Communications*, **2016**, 7, 10211	17.4	65
18	Optically detected magnetic resonances of nitrogen-vacancy ensembles in C13-enriched diamond. *Physical Review B*, **2016**, 94,	3.3	4
17	Optimizing a dynamical decoupling protocol for solid-state electronic spin ensembles in diamond. *Physical Review B*, **2015**, 92,	3.3	55
16	Longitudinal spin-relaxation in nitrogen-vacancy centers in electron irradiated diamond. *Applied Physics Letters*, **2015**, 107, 242403	3.4	24

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15	Photoelectric detection of electron spin resonance of nitrogen-vacancy centres in diamond. *Nature Communications*, **2015**, 6, 8577	17.4	102
14	Longitudinal spin relaxation in nitrogen-vacancy ensembles in diamond. *EPJ Quantum Technology*, **2015**, 2,	6.9	38
13	Cavity-enhanced room-temperature magnetometry using absorption by nitrogen-vacancy centers in diamond. *Physical Review Letters*, **2014**, 112, 160802	7.4	90
12	Temperature shifts of the resonances of the NV center in diamond. *Physical Review B*, **2014**, 90,	3.3	90
11	Microwave saturation spectroscopy of nitrogen-vacancy ensembles in diamond. *Physical Review B*, **2014**, 89,	3.3	29
10	Infrared absorption band and vibronic structure of the nitrogen-vacancy center in diamond. *Physical Review B*, **2013**, 88,	3.3	48
9	Sidebands in optically detected magnetic resonance signals of nitrogen vacancy centers in diamond. *Physical Review B*, **2013**, 87,	3.3	21
8	Solid-state electronic spin coherence time approaching one second. *Nature Communications*, **2013**, 4, 1743	17.4	396
7	Magnetometry with nitrogen-vacancy ensembles in diamond based on infrared absorption in a doubly resonant optical cavity. *Physical Review B*, **2013**, 87,	3.3	44
6	Optical polarization of nuclear ensembles in diamond. *Physical Review B*, **2013**, 87,	3.3	69
5	Light narrowing of magnetic resonances in ensembles of nitrogen-vacancy centers in diamond. *Physical Review B*, **2013**, 87,	3.3	54
4	Temperature- and magnetic-field-dependent longitudinal spin relaxation in nitrogen-vacancy ensembles in diamond. *Physical Review Letters*, **2012**, 108, 197601	7.4	228
3	Gyroscopes based on nitrogen-vacancy centers in diamond. *Physical Review A*, **2012**, 86,	2.6	77
2	Optical properties of the nitrogen-vacancy singlet levels in diamond. *Physical Review B*, **2010**, 82,	3.3	125
1	Broadband magnetometry by infrared-absorption detection of nitrogen-vacancy ensembles in diamond. *Applied Physics Letters*, **2010**, 97, 174104	3.4	101