Ania Jayich

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8847143/publications.pdf

Version: 2024-02-01

22	1,860	471061 17	713013 21
papers	citations	h-index	g-index

22	22	22	2063
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coherent Sensing of a Mechanical Resonator with a Single-Spin Qubit. Science, 2012, 335, 1603-1606.	6.0	326
2	Dynamic strain-mediated coupling of a single diamond spin to a mechanical resonator. Nature Communications, 2014, 5, 4429.	5.8	288
3	Engineering shallow spins in diamond with nitrogen delta-doping. Applied Physics Letters, 2012, 101, 082413.	1.5	239
4	Scanned probe imaging of nanoscale magnetism at cryogenic temperatures with a single-spin quantum sensor. Nature Nanotechnology, 2016, 11, 700-705.	15.6	153
5	Topical review: spins and mechanics in diamond. Journal of Optics (United Kingdom), 2017, 19, 033001.	1.0	126
6	Identifying and Mitigating Charge Instabilities in Shallow Diamond Nitrogen-Vacancy Centers. Physical Review Letters, 2019, 122, 076101.	2.9	99
7	Nanomechanical Sensing Using Spins in Diamond. Nano Letters, 2017, 17, 1496-1503.	4.5	95
8	Patterned Formation of Highly Coherent Nitrogen-Vacancy Centers Using a Focused Electron Irradiation Technique. Nano Letters, 2016, 16, 2450-2454.	4.5	89
9	Nanoscale electrical conductivity imaging using a nitrogen-vacancy center in diamond. Nature Communications, 2018, 9, 2406.	5.8	84
10	Strain Coupling of a Mechanical Resonator to a Single Quantum Emitter in Diamond. Physical Review Applied, 2016, 6, .	1.5	68
11	Three-dimensional localization of spins in diamond using 12C implantation. Applied Physics Letters, 2014, 105, .	1.5	56
12	Colour centre generation in diamond for quantum technologies. Nanophotonics, 2019, 8, 1889-1906.	2.9	56
13	Diamond optomechanical crystals with embedded nitrogen-vacancy centers. Quantum Science and Technology, 2019, 4, 024009.	2.6	31
14	Reduced Plasma-Induced Damage to Near-Surface Nitrogen-Vacancy Centers in Diamond. Nano Letters, 2015, 15, 2887-2891.	4.5	30
15	Single-spin sensing of domain-wall structure and dynamics in a thin-film skyrmion host. Physical Review Materials, 2019, 3, .	0.9	27
16	Optimizing the formation of depth-confined nitrogen vacancy center spin ensembles in diamond for quantum sensing. Physical Review Materials, 2019, 3, .	0.9	26
17	Extending the Quantum Coherence of a Near-Surface Qubit by Coherently Driving the Paramagnetic Surface Environment. Physical Review Letters, 2019, 123, 146804.	2.9	25
18	Materials challenges for quantum technologies based on color centers in diamond. MRS Bulletin, 2021, 46, 623-633.	1.7	19

#	Article	IF	Citations
19	Engineering quantum-coherent defects: The role of substrate miscut in chemical vapor deposition diamond growth. Applied Physics Letters, 2020, 117, 194001.	1.5	8
20	Protecting qubit coherence by spectrally engineered driving of the spin environment. Npj Quantum Information, 2022, 8, .	2.8	8
21	Integrating micromagnets and hybrid nanowires for topological quantum computing. SciPost Physics, 2021, 11, .	1.5	6
22	Dynamic strain-mediated coupling of a single diamond spin to a mechanical resonator. , 0, .		1