

Ania Jayich

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,860
citations

471061

17
h-index

713013

21
g-index

22
all docs

22
docs citations

22
times ranked

2063
citing authors

#	ARTICLE	IF	CITATIONS
1	Protecting qubit coherence by spectrally engineered driving of the spin environment. Npj Quantum Information, 2022, 8, .	2.8	8
2	Materials challenges for quantum technologies based on color centers in diamond. MRS Bulletin, 2021, 46, 623-633.	1.7	19
3	Integrating micromagnets and hybrid nanowires for topological quantum computing. SciPost Physics, 2021, 11, .	1.5	6
4	Engineering quantum-coherent defects: The role of substrate miscut in chemical vapor deposition diamond growth. Applied Physics Letters, 2020, 117, 194001.	1.5	8
5	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
6	Colour centre generation in diamond for quantum technologies. Nanophotonics, 2019, 8, 1889-1906.	2.9	56
7	Diamond optomechanical crystals with embedded nitrogen-vacancy centers. Quantum Science and Technology, 2019, 4, 024009.	2.6	31
8	Identifying and Mitigating Charge Instabilities in Shallow Diamond Nitrogen-Vacancy Centers. Physical Review Letters, 2019, 122, 076101.	2.9	99
9	Single-spin sensing of domain-wall structure and dynamics in a thin-film skyrmion host. Physical Review Materials, 2019, 3, .	0.9	27
10	Optimizing the formation of depth-confined nitrogen vacancy center spin ensembles in diamond for quantum sensing. Physical Review Materials, 2019, 3, .	0.9	26
11	Nanoscale electrical conductivity imaging using a nitrogen-vacancy center in diamond. Nature Communications, 2018, 9, 2406.	5.8	84
12	Nanomechanical Sensing Using Spins in Diamond. Nano Letters, 2017, 17, 1496-1503.	4.5	95
13	Topical review: spins and mechanics in diamond. Journal of Optics (United Kingdom), 2017, 19, 033001.	1.0	126
14	Scanned probe imaging of nanoscale magnetism at cryogenic temperatures with a single-spin quantum sensor. Nature Nanotechnology, 2016, 11, 700-705.	15.6	153
15	Strain Coupling of a Mechanical Resonator to a Single Quantum Emitter in Diamond. Physical Review Applied, 2016, 6, .	1.5	68
16	Patterned Formation of Highly Coherent Nitrogen-Vacancy Centers Using a Focused Electron Irradiation Technique. Nano Letters, 2016, 16, 2450-2454.	4.5	89
17	Reduced Plasma-Induced Damage to Near-Surface Nitrogen-Vacancy Centers in Diamond. Nano Letters, 2015, 15, 2887-2891.	4.5	30
18	Three-dimensional localization of spins in diamond using ¹² C implantation. Applied Physics Letters, 2014, 105, .	1.5	56

#	ARTICLE	IF	CITATIONS
19	Dynamic strain-mediated coupling of a single diamond spin to a mechanical resonator. Nature Communications, 2014, 5, 4429.	5.8	288
20	Engineering shallow spins in diamond with nitrogen delta-doping. Applied Physics Letters, 2012, 101, 082413.	1.5	239
21	Coherent Sensing of a Mechanical Resonator with a Single-Spin Qubit. Science, 2012, 335, 1603-1606.	6.0	326
22	Dynamic strain-mediated coupling of a single diamond spin to a mechanical resonator. , 0, .		1