

# Engineering atomic-scale magnetic fields by dysprosium

Nature Communications

12, 4179

DOI: [10.1038/s41467-021-24465-2](https://doi.org/10.1038/s41467-021-24465-2)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Correlation between Electronic Configuration and Magnetic Stability in Dysprosium Single Atom Magnets. Nano Letters, 2021, 21, 8266-8273.	9.1	20
2	Mapping Orbital-Resolved Magnetism in Single Lanthanide Atoms. ACS Nano, 2021, 15, 16162-16171.	14.6	7
3	A perspective on surface-adsorbed single atom magnets as atomic-scale magnetic memory. Applied Physics Letters, 2021, 119, .	3.3	15
4	Emerging Trends on Designing High-Performance Dysprosium(III) Single-Molecule Magnets. , 2022, 4, 307-319.		60
5	Harnessing the Quantum Behavior of Spins on Surfaces. Advanced Materials, 2023, 35, e2107534.	21.0	16
6	Enhancement of the magnetic anisotropy in single semiconductor nanowires via surface doping and adatom deposition. Nanotechnology, 2022, , .	2.6	1
7	Increasing Magnetic Anisotropy in Bimetallic Nanoislands Grown on fcc(111) Metal Surfaces. Nanomaterials, 2022, 12, 518.	4.1	1
8	OsPd bimetallic dimer pushes the limit of magnetic anisotropy in atom-sized magnets for data storage. Nanotechnology, 2022, 33, 215001.	2.6	3
9	Accurate measurement of atomic magnetic moments by minimizing the tip magnetic field in STM-based electron paramagnetic resonance. Physical Review Research, 2021, 3, .	3.6	11
10	Tailoring magnetic anisotropy by graphene-induced selective skyhook effect on 4f-metals. Nanoscale, 2022, 14, 7682-7691.	5.6	4
11	Electron Paramagnetic Resonance of Alkali Metal Atoms and Dimers on Ultrathin MgO. Nano Letters, 2022, 22, 4176-4181.	9.1	12
12	Slow Magnetic Relaxation of Dy Adatoms with In-Plane Magnetic Anisotropy on a Two-Dimensional Electron Gas. ACS Nano, 2022, 16, 11182-11193.	14.6	9
13	OberflÄchliche Quantenkontrolle. Vakuum in Forschung Und Praxis, 2022, 34, 28-33.	0.1	0
14	Spatially Resolving Electron Spin Resonance of ĩ€-Radical in Single-molecule Magnet. Nano Letters, 2023, 23, 213-219.	9.1	7
15	Erbium and thulium on MgO(100)/Ag(100) as candidates for single atom qubits. Physical Review B, 2023, 107, .	3.2	1
16	Improving MgO/Fe insulator-metal interface structure through oxygen-precoating of Fe(0 0 1). Applied Surface Science, 2023, 618, 156628.	6.1	0
17	Growth morphology and magnetic properties of Gd adatoms on h-BN template: From single atom to small cluster and monolayer. Applied Surface Science, 2023, 616, 156476.	6.1	0
18	The Opportunities and Challenges in Single-Atom Catalysis. ChemCatChem, 2023, 15, .	3.7	4

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19	The Impact of Lattice Distortions on the Magnetic Stability of Single Atoms: Dy and Ho on BaO(100). <i>Advanced Functional Materials</i> , 2023, 33, .	14.9	2
20	Valence Orbitals Driving the Spin Dynamics in a Rare-Earth Single-Atom Magnet. <i>Physical Review Letters</i> , 2023, 130, .	7.8	1
21	Lanthanide-directed metal-organic coordination networks. <i>Chemical Communications</i> , 2023, 59, 8878-8893.	4.1	3
22	Magnetic stability of Ce and Nd single atom magnets on insulating MgO/Ag(100). <i>Physical Review B</i> , 2023, 107, .	3.2	0
23	Electric-Field-Driven Spin Resonance by On-Surface Exchange Coupling to a Single-Atom Magnet. <i>Advanced Science</i> , 2023, 10, .	11.2	5
24	Increasing the Magnetic Blocking Temperature of Single-Molecule Magnets. <i>Angewandte Chemie - International Edition</i> , 2024, 63, .	13.8	3
25	Increasing the Magnetic Blocking Temperature of Single-Molecule Magnets. <i>Angewandte Chemie</i> , 2024, 136, .	2.0	0
26	Hamiltonian Inference from Dynamical Excitations in Confined Quantum Magnets. <i>Physical Review Applied</i> , 2023, 20, .	3.8	3
27	Influence of the Magnetic Tip on Heterodimers in Electron Spin Resonance Combined with Scanning Tunneling Microscopy. <i>ACS Nano</i> , 0, , .	14.6	0
28	On the magnetic bistability of small iron clusters used in scanning tunneling microscopy tip preparation. <i>New Journal of Physics</i> , 2023, 25, 113035.	2.9	0
30	Semiclassical study of single-molecule magnets and their quantum phase transitions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2023, 56, 505301.	2.1	0
31	Magnetism and electronic structure of a Dy adatom on a $\text{MgO}$ substrate. <i>Physical Review B</i> , 2023, 108, .		
32	Field-driven spatiotemporal manipulation of Majorana zero modes in a Kitaev spin liquid. <i>Physical Review B</i> , 2023, 108, .	3.2	0
33	Long magnetic lifetime of a Dy atom on a graphene oxide surface. <i>Physical Review B</i> , 2024, 109, .	3.2	0
34	Electrically controlled nonvolatile switching of single-atom magnetism in a Dy@C84 single-molecule transistor. <i>Nature Communications</i> , 2024, 15, .	12.8	0