Christian Wäckerlin

List of Publications by Year in descending order

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218677 223800 2,243 66 26 46 citations g-index h-index papers 67 67 67 2778 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Magnetic remanence in single atoms. Science, 2016, 352, 318-321.	12.6	259
2	Controlling spins in adsorbed molecules by a chemical switch. Nature Communications, 2010, 1, 61.	12.8	229
3	Giant Hysteresis of Singleâ€Molecule Magnets Adsorbed on a Nonmagnetic Insulator. Advanced Materials, 2016, 28, 5195-5199.	21.0	137
4	On-surface coordination chemistry of planar molecular spin systems: novel magnetochemical effects induced by axial ligands. Chemical Science, 2012, 3, 3154.	7.4	96
5	Superlattice of Single Atom Magnets on Graphene. Nano Letters, 2016, 16, 7610-7615.	9.1	87
6	Ammonia Coordination Introducing a Magnetic Moment in an Onâ€Surface Lowâ€Spin Porphyrin. Angewandte Chemie - International Edition, 2013, 52, 4568-4571.	13.8	76
7	Assembly of 2D ionic layers by reaction of alkali halides with the organic electrophile 7,7,8,8-tetracyano-p-quinodimethane (TCNQ). Chemical Communications, 2011, 47, 9146.	4.1	71
8	Long-range ferrimagnetic order in a two-dimensional supramolecular Kondo lattice. Nature Communications, 2017, 8, 15388.	12.8	70
9	Controlling the Dimensionality of On-Surface Coordination Polymers via Endo- or Exoligation. Journal of the American Chemical Society, 2014, 136, 9355-9363.	13.7	65
10	Chirality Transfer in 1D Self-Assemblies: Influence of H-Bonding vs Metal Coordination between Dicyano[7]helicene Enantiomers. Journal of the American Chemical Society, 2013, 135, 15270-15273.	13.7	57
11	Magnetism of Ho and Er Atoms on Close-Packed Metal Surfaces. Physical Review Letters, 2014, 113, 237201.	7.8	55
12	Emergence of On-Surface Magnetochemistry. Journal of Physical Chemistry Letters, 2013, 4, 2303-2311.	4.6	52
13	Controlling the Spin of Co Atoms on $Pt(111)$ by Hydrogen Adsorption. Physical Review Letters, 2015, 114, 106807.	7.8	52
14	Porphyrin metalation providing an example of a redox reaction facilitated by a surface reconstruction. Chemical Communications, 2013, 49, 2347.	4.1	49
15	Indirect Magnetic Coupling of Manganese Porphyrin to a Ferromagnetic Cobalt Substrate. Journal of Physical Chemistry C, 2011, 115, 1295-1301.	3.1	44
16	Self-Assembly and Superexchange Coupling of Magnetic Molecules on Oxygen-Reconstructed Ferromagnetic Thin Film. Journal of Physical Chemistry Letters, 2010, 1, 1408-1413.	4.6	41
17	Twoâ€Dimensional Supramolecular Electron Spin Arrays. Advanced Materials, 2013, 25, 2404-2408.	21.0	37
18	Exchange Interaction of Strongly Anisotropic Tripodal Erbium Single-Ion Magnets with Metallic Surfaces. ACS Nano, 2014, 8, 4662-4671.	14.6	37

#	Article	IF	Citations
19	Understanding the Superior Stability of Singleâ€Molecule Magnets on an Oxide Film. Advanced Science, 2019, 6, 1901736.	11.2	36
20	Visualizing the Product of a Formal Cycloaddition of 7,7,8,8â€Tetracyanoâ€∢i>pàâ€quinodimethane (TCNQ) to an Acetyleneâ€Appended Porphyrin by Scanning Tunneling Microscopy on Au(111). Chemistry - A European Journal, 2011, 17, 5246-5250.	3.3	33
21	<pre><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>4</mml:mn><mml:mi>f</mml:mi> occupancy and magnetism of rare-earth atoms adsorbed on metal substrates. Physical Review B, 2017, 96</mml:mrow></mml:math></pre>	<td>owy </td>	owy
22	Unconventional Spin Relaxation Involving Localized Vibrational Modes in Ho Single-Atom Magnets. Physical Review Letters, 2020, 124, 077204.	7.8	33
23	Surface doping in pentacene thin-film transistors with few monolayer thick channels. Applied Physics Letters, 2012, 101, 033305.	3.3	32
24	Interplay of weak interactions in the atom-by-atom condensation of xenon within quantum boxes. Nature Communications, 2015, 6, 6071.	12.8	30
25	Spontaneous separation of on-surface synthesized tris-helicenes into two-dimensional homochiral domains. Chemical Communications, 2018, 54, 7948-7951.	4.1	30
26	Magnetic Hysteresis in Er Trimers on Cu(111). Nano Letters, 2016, 16, 3475-3481.	9.1	28
27	Surface-assisted diastereoselective Ullmann coupling of bishelicenes. Chemical Communications, 2016, 52, 12694-12697.	4.1	28
28	The fate of bromine after temperature-induced dehydrogenation of on-surface synthesized bisheptahelicene. Chemical Science, 2019, 10, 2998-3004.	7.4	25
29	Diastereoselective Ullmann Coupling to Bishelicenes by Surface Topochemistry. Journal of the American Chemical Society, 2018, 140, 15186-15189.	13.7	24
30	Excited Spin-State Trapping in Spin Crossover Complexes on Ferroelectric Substrates. Journal of Physical Chemistry C, 2018, 122, 8202-8208.	3.1	23
31	Magnetic properties of single rare-earth atoms on graphene/ $lr(111)$. Physical Review B, 2018, 98, .	3.2	23
32	1D Coordination π–d Conjugated Polymers with Distinct Structures Defined by the Choice of the Transition Metal: Towards a New Class of Antiaromatic Macrocycles. Angewandte Chemie - International Edition, 2021, 60, 439-445.	13.8	23
33	Antiferromagnetic coupling of Cr-porphyrin to a bare Co substrate. Physical Review B, 2014, 90, .	3.2	21
34	Covalent assembly of a two-dimensional molecular "sponge―on a Cu(111) surface: confined electronic surface states in open and closed pores. Chemical Communications, 2014, 50, 7628-7631.	4.1	20
35	Identification of On-Surface Reaction Mechanism by Targeted Metalation. Journal of Physical Chemistry C, 2017, 121, 27521-27527.	3.1	20
36	Correlation between Electronic Configuration and Magnetic Stability in Dysprosium Single Atom Magnets. Nano Letters, 2021, 21, 8266-8273.	9.1	20

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37	Configuring Electronic States in an Atomically Precise Array of Quantum Boxes. Small, 2016, 12, 3757-3763.	10.0	16
38	Reduction of Mn ₁₉ Coordination Clusters on a Gold Surface. Journal of Physical Chemistry C, 2015, 119, 3550-3555.	3.1	15
39	Ranking the Stability of Transition-Metal Complexes by On-Surface Atom Exchange. Journal of Physical Chemistry Letters, 2017, 8, 6193-6198.	4.6	15
40	On-Surface Hydrogenation of Buckybowls: From Curved Aromatic Molecules to Planar Non-Kekulé Aromatic Hydrocarbons. ACS Nano, 2020, 14, 16735-16742.	14.6	15
41	Chiral molecules adsorbed on a solid surface: Tartaric acid diastereomers and their surface explosion on Cu(111). Chirality, 2018, 30, 369-377.	2.6	14
42	Magnetic properties of on-surface synthesized single-ion molecular magnets. RSC Advances, 2019, 9, 34421-34429.	3.6	14
43	Langmuir–Blodgett monolayer stabilization using supramolecular clips. Chemical Communications, 2013, 49, 367-369.	4.1	13
44	Strong antiferromagnetic exchange between manganese phthalocyanine and ferromagnetic europium oxide. Chemical Communications, 2015, 51, 12958-12961.	4.1	12
45	Magnetic exchange coupling of a synthetic Co(ii)-complex to a ferromagnetic Ni substrate. Chemical Communications, 2013, 49, 10736.	4.1	11
46	Stereospecific Autocatalytic Surface Explosion Chemistry of Polycyclic Aromatic Hydrocarbons. Journal of the American Chemical Society, 2018, 140, 7705-7709.	13.7	11
47	Molecular Chessboard Assemblies Sorted by Site-Specific Interactions of Out-of-Plane d-Orbitals with a Semimetal Template. Nano Letters, 2017, 17, 1956-1962.	9.1	10
48	Large effect of metal substrate on magnetic anisotropy of Co on hexagonal boron nitride. New Journal of Physics, 2019, 21, 073053.	2.9	10
49	Nearly amorphous Mo-N gratings for ultimate resolution in extreme ultraviolet interference lithography. Nanotechnology, 2014, 25, 235305.	2.6	9
50	Supramolecular architectures of molecularly thin yet robust free-standing layers. Science Advances, 2019, 5, eaav4489.	10.3	9
51	On-surface coordination chemistry: direct imaging of the conformational freedom of an axial ligand at room temperature. Physical Chemistry Chemical Physics, 2013, 15, 16510.	2.8	8
52	Unbalanced 2D Chiral Crystallization of Pentahelicene Propellers and Their Planarization into Nanographenes. Chemistry - A European Journal, 2021, 27, 10251-10254.	3.3	8
53	Single-Molecule Magnets: Giant Hysteresis of Single-Molecule Magnets Adsorbed on a Nonmagnetic Insulator (Adv. Mater. 26/2016). Advanced Materials, 2016, 28, 5142-5142.	21.0	7
54	Onâ€Surface Metalation and 2D Selfâ€Assembly of Pyrphyrin Molecules Into Metalâ€Coordinated Networks on Cu(111). Helvetica Chimica Acta, 2017, 100, e1600278.	1.6	6

#	Article	IF	CITATIONS
55	Adsorbate-Induced Modification of the Confining Barriers in a Quantum Box Array. ACS Nano, 2018, 12, 768-778.	14.6	6
56	Nanocomposites of carbon nanotubes embedded in a (Ti,Al)N coated film. Surface and Coatings Technology, 2012, 212, 223-228.	4.8	5
57	Island formation of Er(trensal) single-ion magnets on graphene observed on the micrometer scale. RSC Advances, 2021, 11, 9421-9425.	3.6	5
58	Spin Excitations in a <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>4</mml:mn><mml:mi>f</mml:mi><mml:mo>â^'</mml:mo><mml:mn>3</mml:mn>< Heterodimer on MgO. Physical Review Letters, 2018, 121, 257202.</mml:math>	mn 7l% ni>d	
59	Onâ€Surface Hydrogen/Deuterium Isotope Exchange in Polycyclic Aromatic Hydrocarbons. Angewandte Chemie - International Edition, 2021, 60, 8446-8449.	13.8	4
60	Autocatalytic Surface Explosion Chemistry of 2D Metal–Organic Frameworks. Journal of Physical Chemistry C, 2021, 125, 13343-13349.	3.1	3
61	Twoâ€Dimensional Supramolecular Electron Spin Arrays (Adv. Mater. 17/2013). Advanced Materials, 2013, 25, 2403-2403.	21.0	2
62	Graphene Grown from Flat and Bowl Shaped Polycyclic Aromatic Hydrocarbons on Cu(111). ChemPhysChem, 2019, 20, 2354-2359.	2.1	2
63	Onâ€Surface Hydrogen/Deuterium Isotope Exchange in Polycyclic Aromatic Hydrocarbons. Angewandte Chemie, 2021, 133, 8527-8530.	2.0	2
64	Investigating magneto-chemical interactions at molecule–substrate interfaces by X-ray photo-emission electron microscopy. Chemical Communications, 2014, 50, 5190.	4.1	1
65	1D Coordination π–d Conjugated Polymers with Distinct Structures Defined by the Choice of the Transition Metal: Towards a New Class of Antiaromatic Macrocycles. Angewandte Chemie, 2021, 133, 443-449.	2.0	0
66	Site-Specific Coordination Chemistry and Beyond: Novel Properties in Low Dimensional Supramolecular Architectures of Porphins at Surfaces. ECS Meeting Abstracts, 2019, , .	0.0	0