

Christian WÄckerlin

List of Publications by Year in descending order

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66
papers

2,243
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218677

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times ranked

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#	ARTICLE	IF	CITATIONS
1	1D Coordination π -Conjugated Polymers with Distinct Structures Defined by the Choice of the Transition Metal: Towards a New Class of Antiaromatic Macrocycles. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 439-445.	13.8	23
2	1D Coordination π -Conjugated Polymers with Distinct Structures Defined by the Choice of the Transition Metal: Towards a New Class of Antiaromatic Macrocycles. <i>Angewandte Chemie</i> , 2021, 133, 443-449.	2.0	0
3	Island formation of Er(trensal) single-ion magnets on graphene observed on the micrometer scale. <i>RSC Advances</i> , 2021, 11, 9421-9425.	3.6	5
4	On-Surface Hydrogen/Deuterium Isotope Exchange in Polycyclic Aromatic Hydrocarbons. <i>Angewandte Chemie</i> , 2021, 133, 8527-8530.	2.0	2
5	On-Surface Hydrogen/Deuterium Isotope Exchange in Polycyclic Aromatic Hydrocarbons. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8446-8449.	13.8	4
6	Unbalanced 2D Chiral Crystallization of Pentahelicene Propellers and Their Planarization into Nanographenes. <i>Chemistry - A European Journal</i> , 2021, 27, 10251-10254.	3.3	8
7	Autocatalytic Surface Explosion Chemistry of 2D Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13343-13349.	3.1	3
8	Correlation between Electronic Configuration and Magnetic Stability in Dysprosium Single Atom Magnets. <i>Nano Letters</i> , 2021, 21, 8266-8273.	9.1	20
9	On-Surface Hydrogenation of Buckybowls: From Curved Aromatic Molecules to Planar Non-Kekulé Aromatic Hydrocarbons. <i>ACS Nano</i> , 2020, 14, 16735-16742.	14.6	15
10	Unconventional Spin Relaxation Involving Localized Vibrational Modes in Ho Single-Atom Magnets. <i>Physical Review Letters</i> , 2020, 124, 077204.	7.8	33
11	Large effect of metal substrate on magnetic anisotropy of Co on hexagonal boron nitride. <i>New Journal of Physics</i> , 2019, 21, 073053.	2.9	10
12	Understanding the Superior Stability of Single-Molecule Magnets on an Oxide Film. <i>Advanced Science</i> , 2019, 6, 1901736.	11.2	36
13	The fate of bromine after temperature-induced dehydrogenation of on-surface synthesized bisheptahelicene. <i>Chemical Science</i> , 2019, 10, 2998-3004.	7.4	25
14	Graphene Grown from Flat and Bowl Shaped Polycyclic Aromatic Hydrocarbons on Cu(111). <i>ChemPhysChem</i> , 2019, 20, 2354-2359.	2.1	2
15	Supramolecular architectures of molecularly thin yet robust free-standing layers. <i>Science Advances</i> , 2019, 5, eaav4489.	10.3	9
16	Magnetic properties of on-surface synthesized single-ion molecular magnets. <i>RSC Advances</i> , 2019, 9, 34421-34429.	3.6	14
17	Site-Specific Coordination Chemistry and Beyond: Novel Properties in Low Dimensional Supramolecular Architectures of Porphins at Surfaces. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
18	Excited Spin-State Trapping in Spin Crossover Complexes on Ferroelectric Substrates. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8202-8208.	3.1	23

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19	Chiral molecules adsorbed on a solid surface: Tartaric acid diastereomers and their surface explosion on Cu(111). <i>Chirality</i> , 2018, 30, 369-377.	2.6	14
20	Adsorbate-Induced Modification of the Confining Barriers in a Quantum Box Array. <i>ACS Nano</i> , 2018, 12, 768-778.	14.6	6
21	Spin Excitations in a $U(1) \times SU(2)$ Heterodimer on MgO. <i>Physical Review Letters</i> , 2018, 121, 257202.	7.5	1
22	Diastereoselective Ullmann Coupling to Bishelicenes by Surface Topochemistry. <i>Journal of the American Chemical Society</i> , 2018, 140, 15186-15189.	13.7	24
23	Stereospecific Autocatalytic Surface Explosion Chemistry of Polycyclic Aromatic Hydrocarbons. <i>Journal of the American Chemical Society</i> , 2018, 140, 7705-7709.	13.7	11
24	Spontaneous separation of on-surface synthesized tris-helicenes into two-dimensional homochiral domains. <i>Chemical Communications</i> , 2018, 54, 7948-7951.	4.1	30
25	Magnetic properties of single rare-earth atoms on graphene/Ir(111). <i>Physical Review B</i> , 2018, 98, .	3.2	23
26	On-Surface Metalation and 2D Self-Assembly of Porphyrin Molecules Into Metal-Coordinated Networks on Cu(111). <i>Helvetica Chimica Acta</i> , 2017, 100, e1600278.	1.6	6
27	Molecular Chessboard Assemblies Sorted by Site-Specific Interactions of Out-of-Plane d-Orbitals with a Semimetal Template. <i>Nano Letters</i> , 2017, 17, 1956-1962.	9.1	10
28	Long-range ferrimagnetic order in a two-dimensional supramolecular Kondo lattice. <i>Nature Communications</i> , 2017, 8, 15388.	12.8	70
29	Occupancy and magnetism of rare-earth atoms adsorbed on metal substrates. <i>Physical Review B</i> , 2017, 96, .	3.2	33
30	Identification of On-Surface Reaction Mechanism by Targeted Metalation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27521-27527.	3.1	20
31	Ranking the Stability of Transition-Metal Complexes by On-Surface Atom Exchange. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 6193-6198.	4.6	15
32	Giant Hysteresis of Single-Molecule Magnets Adsorbed on a Nonmagnetic Insulator. <i>Advanced Materials</i> , 2016, 28, 5195-5199.	21.0	137
33	Configuring Electronic States in an Atomically Precise Array of Quantum Boxes. <i>Small</i> , 2016, 12, 3757-3763.	10.0	16
34	Magnetic Hysteresis in Er Trimers on Cu(111). <i>Nano Letters</i> , 2016, 16, 3475-3481.	9.1	28
35	Magnetic remanence in single atoms. <i>Science</i> , 2016, 352, 318-321.	12.6	259
36	Surface-assisted diastereoselective Ullmann coupling of bishelicenes. <i>Chemical Communications</i> , 2016, 52, 12694-12697.	4.1	28

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37	Single-Molecule Magnets: Giant Hysteresis of Single-Molecule Magnets Adsorbed on a Nonmagnetic Insulator (Adv. Mater. 26/2016). <i>Advanced Materials</i> , 2016, 28, 5142-5142.	21.0	7
38	Superlattice of Single Atom Magnets on Graphene. <i>Nano Letters</i> , 2016, 16, 7610-7615.	9.1	87
39	Reduction of Mn ¹⁹ Coordination Clusters on a Gold Surface. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3550-3555.	3.1	15
40	Interplay of weak interactions in the atom-by-atom condensation of xenon within quantum boxes. <i>Nature Communications</i> , 2015, 6, 6071.	12.8	30
41	Controlling the Spin of Co Atoms on Pt(111) by Hydrogen Adsorption. <i>Physical Review Letters</i> , 2015, 114, 106807.	7.8	52
42	Strong antiferromagnetic exchange between manganese phthalocyanine and ferromagnetic europium oxide. <i>Chemical Communications</i> , 2015, 51, 12958-12961.	4.1	12
43	Magnetism of Ho and Er Atoms on Close-Packed Metal Surfaces. <i>Physical Review Letters</i> , 2014, 113, 237201.	7.8	55
44	Antiferromagnetic coupling of Cr-porphyrin to a bare Co substrate. <i>Physical Review B</i> , 2014, 90, .	3.2	21
45	Covalent assembly of a two-dimensional molecular "sponge" on a Cu(111) surface: confined electronic surface states in open and closed pores. <i>Chemical Communications</i> , 2014, 50, 7628-7631.	4.1	20
46	Investigating magneto-chemical interactions at molecule-substrate interfaces by X-ray photo-emission electron microscopy. <i>Chemical Communications</i> , 2014, 50, 5190.	4.1	1
47	Controlling the Dimensionality of On-Surface Coordination Polymers via Endo- or Exoligation. <i>Journal of the American Chemical Society</i> , 2014, 136, 9355-9363.	13.7	65
48	Nearly amorphous Mo-N gratings for ultimate resolution in extreme ultraviolet interference lithography. <i>Nanotechnology</i> , 2014, 25, 235305.	2.6	9
49	Exchange Interaction of Strongly Anisotropic Tripodal Erbium Single-Ion Magnets with Metallic Surfaces. <i>ACS Nano</i> , 2014, 8, 4662-4671.	14.6	37
50	Emergence of On-Surface Magnetochemistry. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2303-2311.	4.6	52
51	Two-Dimensional Supramolecular Electron Spin Arrays. <i>Advanced Materials</i> , 2013, 25, 2404-2408.	21.0	37
52	Chirality Transfer in 1D Self-Assemblies: Influence of H-Bonding vs Metal Coordination between Dicyano[7]helicene Enantiomers. <i>Journal of the American Chemical Society</i> , 2013, 135, 15270-15273.	13.7	57
53	Magnetic exchange coupling of a synthetic Co(ii)-complex to a ferromagnetic Ni substrate. <i>Chemical Communications</i> , 2013, 49, 10736.	4.1	11
54	On-surface coordination chemistry: direct imaging of the conformational freedom of an axial ligand at room temperature. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16510.	2.8	8

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55	Langmuir-Blodgett monolayer stabilization using supramolecular clips. <i>Chemical Communications</i> , 2013, 49, 367-369.	4.1	13
56	Porphyrimetalation providing an example of a redox reaction facilitated by a surface reconstruction. <i>Chemical Communications</i> , 2013, 49, 2347.	4.1	49
57	Two-Dimensional Supramolecular Electron Spin Arrays (<i>Adv. Mater.</i> 17/2013). <i>Advanced Materials</i> , 2013, 25, 2403-2403.	21.0	2
58	Ammonia Coordination Introducing a Magnetic Moment in an On-Surface Low-Spin Porphyrin. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4568-4571.	13.8	76
59	Surface doping in pentacene thin-film transistors with few monolayer thick channels. <i>Applied Physics Letters</i> , 2012, 101, 033305.	3.3	32
60	Nanocomposites of carbon nanotubes embedded in a (Ti,Al)N coated film. <i>Surface and Coatings Technology</i> , 2012, 212, 223-228.	4.8	5
61	On-surface coordination chemistry of planar molecular spin systems: novel magnetochemical effects induced by axial ligands. <i>Chemical Science</i> , 2012, 3, 3154.	7.4	96
62	Assembly of 2D ionic layers by reaction of alkali halides with the organic electrophile 7,7,8,8-tetracyano-p-quinodimethane (TCNQ). <i>Chemical Communications</i> , 2011, 47, 9146.	4.1	71
63	Indirect Magnetic Coupling of Manganese Porphyrin to a Ferromagnetic Cobalt Substrate. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1295-1301.	3.1	44
64	Visualizing the Product of a Formal Cycloaddition of 7,7,8,8-tetracyano-p-quinodimethane (TCNQ) to an Acetylene-Appended Porphyrin by Scanning Tunneling Microscopy on Au(111). <i>Chemistry - A European Journal</i> , 2011, 17, 5246-5250.	3.3	33
65	Controlling spins in adsorbed molecules by a chemical switch. <i>Nature Communications</i> , 2010, 1, 61.	12.8	229
66	Self-Assembly and Superexchange Coupling of Magnetic Molecules on Oxygen-Reconstructed Ferromagnetic Thin Film. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1408-1413.	4.6	41