

Willi Auwrter

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114
papers

7,036
citations

46
h-index

83
g-index

123
ext. papers

7,614
ext. citations

9.9
avg, IF

5.86
L-index

#	Paper	IF	Citations
114	Boron nitride nanomesh. <i>Science</i> , 2004 , 303, 217-20	33.3	782
113	Porphyrins at interfaces. <i>Nature Chemistry</i> , 2015 , 7, 105-20	17.6	472
112	A surface-anchored molecular four-level conductance switch based on single proton transfer. <i>Nature Nanotechnology</i> , 2011 , 7, 41-6	28.7	221
111	XPD and STM investigation of hexagonal boron nitride on Ni(111). <i>Surface Science</i> , 1999 , 429, 229-236	1.8	201
110	Synthesis of One Monolayer of Hexagonal Boron Nitride on Ni(111) from B-Trichloroborazine (CIBNH) ₃ . <i>Chemistry of Materials</i> , 2004 , 16, 343-345	9.6	189
109	Controlled metalation of self-assembled porphyrin nanoarrays in two dimensions. <i>ChemPhysChem</i> , 2007 , 8, 250-4	3.2	187
108	The surface trans effect: influence of axial ligands on the surface chemical bonds of adsorbed metalloporphyrins. <i>Journal of the American Chemical Society</i> , 2011 , 133, 6206-22	16.4	178
107	Boron nitride on Cu(111): an electronically corrugated monolayer. <i>Nano Letters</i> , 2012 , 12, 5821-8	11.5	168
106	Chiral kagomelattice from simple ditopic molecular bricks. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11778-82	16.4	168
105	Density functional theory investigation of the geometric and spintronic structure of h-BN/Ni(111) in view of photoemission and STM experiments. <i>Physical Review B</i> , 2003 , 68,	3.3	165
104	Zwitterionic self-assembly of L-methionine nanogratings on the Ag(111) surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 5279-84	11.5	156
103	Defect lines and two-domain structure of hexagonal boron nitride films on Ni(111). <i>Surface Science</i> , 2003 , 545, L735-L740	1.8	146
102	Self-assembly and conformation of tetrapyrrolyl-porphyrin molecules on Ag(111). <i>Journal of Chemical Physics</i> , 2006 , 124, 194708	3.9	129
101	Self-assembly of flexible one-dimensional coordination polymers on metal surfaces. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6783-90	16.4	126
100	Surface-assisted dehydrogenative homocoupling of porphine molecules. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9346-54	16.4	122
99	Spin-polarized Fermi surface mapping. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2002 , 124, 263-279	1.7	122
98	Supramolecular gratings for tuneable confinement of electrons on metal surfaces. <i>Nature Nanotechnology</i> , 2007 , 2, 99-103	28.7	121

97	Site-specific electronic and geometric interface structure of Co-tetraphenyl-porphyrin layers on Ag(111). <i>Physical Review B</i> , 2010 , 81,	3.3	119
96	Hexagonal boron nitride monolayers on metal supports: Versatile templates for atoms, molecules and nanostructures. <i>Surface Science Reports</i> , 2019 , 74, 1-95	12.9	113
95	Conformational adaptation and selective adatom capturing of tetrapyrridyl-porphyrin molecules on a copper (111) surface. <i>Journal of the American Chemical Society</i> , 2007 , 129, 11279-85	16.4	112
94	Quasicrystallinity expressed in two-dimensional coordination networks. <i>Nature Chemistry</i> , 2016 , 8, 657-667.6	17.6	112
93	Five-vertex Archimedean surface tessellation by lanthanide-directed molecular self-assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6678-81	11.5	104
92	Random two-dimensional string networks based on divergent coordination assembly. <i>Nature Chemistry</i> , 2010 , 2, 131-7	17.6	101
91	Visualizing the frontier orbitals of a conformationally adapted metalloporphyrin. <i>ChemPhysChem</i> , 2008 , 9, 89-94	3.2	92
90	Surface-assisted assembly of discrete porphyrin-based cyclic supramolecules. <i>Nano Letters</i> , 2010 , 10, 122-8	11.5	90
89	Cis-dicarbonyl binding at cobalt and iron porphyrins with saddle-shape conformation. <i>Nature Chemistry</i> , 2011 , 3, 114-9	17.6	86
88	Assembly and manipulation of rotatable cerium porphyrinato sandwich complexes on a surface. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3872-7	16.4	86
87	Fusing tetrapyrroles to graphene edges by surface-assisted covalent coupling. <i>Nature Chemistry</i> , 2017 , 9, 33-38	17.6	85
86	Temperature dependence of conformation, chemical state, and metal-directed assembly of tetrapyrridyl-porphyrin on Cu(111). <i>Journal of Chemical Physics</i> , 2008 , 129, 214702	3.9	82
85	How surface bonding and repulsive interactions cause phase transformations: ordering of a prototype macrocyclic compound on Ag(111). <i>ACS Nano</i> , 2013 , 7, 3139-49	16.7	81
84	In vacuo interfacial tetrapyrrole metallation. <i>Chemical Society Reviews</i> , 2016 , 45, 1629-56	58.5	80
83	Interaction of Cerium Atoms with Surface-Anchored Porphyrin Molecules. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3453-3455	3.8	78
82	Hierarchic self-assembly of nanoporous chiral networks with conformationally flexible porphyrins. <i>ACS Nano</i> , 2010 , 4, 4936-42	16.7	69
81	Control of molecular organization and energy level alignment by an electronically nanopatterned boron nitride template. <i>ACS Nano</i> , 2014 , 8, 430-42	16.7	68
80	Investigating the molecule-substrate interaction of prototypic tetrapyrrole compounds: adsorption and self-metalation of porphine on Cu(111). <i>Journal of Chemical Physics</i> , 2013 , 138, 154710	3.9	62

79	Dimerization boosts one-dimensional mobility of conformationally adapted porphyrins on a hexagonal surface atomic lattice. <i>Nano Letters</i> , 2008 , 8, 4608-13	11.5	58
78	Two-dimensional short-range disordered crystalline networks from flexible molecular modules. <i>ACS Nano</i> , 2012 , 6, 4258-65	16.7	57
77	Exploration of pyrazine-embedded antiaromatic polycyclic hydrocarbons generated by solution and on-surface azomethine ylide homocoupling. <i>Nature Communications</i> , 2017 , 8, 1948	17.4	55
76	Discriminative response of surface-confined metalloporphyrin molecules to carbon and nitrogen monoxide. <i>Journal of the American Chemical Society</i> , 2010 , 132, 18141-6	16.4	55
75	Determining adsorbate structures from substrate emission X-ray photoelectron diffraction. <i>Surface Science</i> , 2001 , 472, 125-132	1.8	54
74	Supramolecular assembly of interfacial nanoporous networks with simultaneous expression of metal-organic and organic-bonding motifs. <i>Chemistry - A European Journal</i> , 2013 , 19, 14143-50	4.8	53
73	Self-aligning atomic strings in surface-supported biomolecular gratings. <i>Physical Review B</i> , 2008 , 78,	3.3	49
72	Controlling coordination reactions and assembly on a Cu(111) supported boron nitride monolayer. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2420-3	16.4	48
71	Orthogonal insertion of lanthanide and transition-metal atoms in metal-organic networks on surfaces. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6163-7	16.4	46
70	Direct Identification and Determination of Conformational Response in Adsorbed Individual Nonplanar Molecular Species Using Noncontact Atomic Force Microscopy. <i>Nano Letters</i> , 2016 , 16, 7703-7709	11.5	46
69	L-tyrosine on Ag(111): universality of the amino acid 2D zwitterionic bonding scheme?. <i>ACS Nano</i> , 2010 , 4, 1218-26	16.7	46
68	Surface-Assisted Cyclodehydrogenation; Break the Symmetry, Enhance the Selectivity. <i>Chemistry - A European Journal</i> , 2015 , 21, 12285-90	4.8	45
67	Ab-initio calculations and STM observations on tetrapyrridyl and Fe(II)-tetrapyrridyl-porphyrin molecules on Ag(111). <i>Surface Science</i> , 2007 , 601, 2409-2414	1.8	44
66	Lanthanide-Directed Assembly of Interfacial Coordination Architectures-From Complex Networks to Functional Nanosystems. <i>Accounts of Chemical Research</i> , 2018 , 51, 365-375	24.3	43
65	Selective supramolecular fullerene-porphyrin interactions and switching in surface-confined C60-Ce(TPP)2 dyads. <i>Nano Letters</i> , 2012 , 12, 4077-83	11.5	42
64	Corrugation in the Weakly Interacting Hexagonal-BN/Cu(111) System: Structure Determination by Combining Noncontact Atomic Force Microscopy and X-ray Standing Waves. <i>ACS Nano</i> , 2017 , 11, 9151-9161	16.7	40
63	NO-Induced Reorganization of Porphyrin Arrays. <i>ACS Nano</i> , 2009 , 3, 1789-94	16.7	40
62	Self-Assembly of l-Methionine on Cu(111): Steering Chiral Organization by Substrate Reactivity and Thermal Activation. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 12101-12108	3.8	38

61	Controlled manipulation of gadolinium-coordinated supramolecules by low-temperature scanning tunneling microscopy. <i>Nano Letters</i> , 2014 , 14, 1369-73	11.5	37
60	Self-terminating protocol for an interfacial complexation reaction in vacuo by metal-organic chemical vapor deposition. <i>ACS Nano</i> , 2013 , 7, 4520-6	16.7	37
59	Controlled interaction of surface quantum-well electronic states. <i>Nano Letters</i> , 2013 , 13, 6130-5	11.5	36
58	Co on h-BN/Ni(111): from island to island-chain formation and Co intercalation. <i>Surface Science</i> , 2002 , 511, 379-386	1.8	36
57	Molecular nanoscience and engineering on surfaces. <i>International Journal of Nanotechnology</i> , 2008 , 5, 1171	1.5	35
56	Surface-Supported Robust 2D Lanthanide-Carboxylate Coordination Networks. <i>Small</i> , 2015 , 11, 6358-6411	11	34
55	Five-Vertex Lanthanide Coordination on Surfaces: A Route to Sophisticated Nanoarchitectures and Tessellations. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 12908-12915	3.8	30
54	Effect of strain relaxations on heteroepitaxial metal-on-metal island nucleation and superlattice formation: Fe on Cu(111). <i>Physical Review B</i> , 2009 , 79,	3.3	28
53	Supramolecular Spangling, Crocheting, and Knitting of Functionalized Pyrene Molecules on a Silver Surface. <i>ACS Nano</i> , 2016 , 10, 7665-74	16.7	28
52	Supramolecular organization and chiral resolution of p-terphenyl-m-dicarbonitrile on the Ag(111) surface. <i>ChemPhysChem</i> , 2010 , 11, 1446-51	3.2	27
51	Tailoring Large Pores of Porphyrin Networks on Ag(111) by Metal-Organic Coordination. <i>Chemistry - A European Journal</i> , 2016 , 22, 15298-15306	4.8	27
50	Probing nitrosyl ligation of surface-confined metalloporphyrins by inelastic electron tunneling spectroscopy. <i>ACS Nano</i> , 2013 , 7, 5273-81	16.7	25
49	Rocking-motion-induced charging of C60 on h-BN/Ni(111). <i>Physical Review B</i> , 2005 , 71,	3.3	25
48	Immobilised molecular catalysts and the role of the supporting metal substrate. <i>Chemical Communications</i> , 2015 , 51, 9483-6	5.8	24
47	Tunable lanthanide-directed metallosupramolecular networks by exploiting coordinative flexibility through ligand stoichiometry. <i>Chemical Communications</i> , 2016 , 52, 1618-21	5.8	23
46	Nanoscale Phase Engineering of Niobium Diselenide. <i>Chemistry of Materials</i> , 2017 , 29, 9907-9914	9.6	22
45	Competing Interactions in Surface Reticulation with a Prochiral Dicarbonitrile Linker. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12858-12863	3.8	22
44	One-dimensional chains of C60 molecules on Cu(221). <i>Surface Science</i> , 2004 , 566-568, 633-637	1.8	22

43	THE FERMI SURFACE IN A MAGNETIC METAL/INSULATOR INTERFACE. <i>Surface Review and Letters</i> , 2002 , 09, 1243-1250	1.1	20
42	Two-level spatial modulation of vibronic conductance in conjugated oligophenylenes on boron nitride. <i>Nano Letters</i> , 2015 , 15, 2242-8	11.5	19
41	Nature of the bias-dependent symmetry reduction of iron phthalocyanine on Cu(111). <i>Physical Review B</i> , 2015 , 92,	3.3	19
40	Exchange splitting of the three π surface states of Ni(111) from three-dimensional spin- and angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2009 , 80,	3.3	19
39	Electron coherence in a melting lead monolayer. <i>Science</i> , 2004 , 306, 2221-4	33.3	19
38	Synthese und Manipulation rotierbarer Cer-Porphyrin-Sandwichkomplexe auf einer Oberfläche. <i>Angewandte Chemie</i> , 2011 , 123, 3958-3963	3.6	18
37	Restoring the Co magnetic moments at interfacial Co-porphyrin arrays by site-selective uptake of iron. <i>ACS Nano</i> , 2015 , 9, 3605-16	16.7	17
36	Dynamics and thermal stability of surface-confined metal-organic chains. <i>Surface Science</i> , 2016 , 643, 91-97	1.8	17
35	Polycyclic aromatic chains on metals and insulating layers by repetitive [3+2] cycloadditions. <i>Nature Communications</i> , 2020 , 11, 1490	17.4	15
34	Iron phthalocyanine on Cu(111): Coverage-dependent assembly and symmetry breaking, temperature-induced homocoupling, and modification of the adsorbate-surface interaction by annealing. <i>Journal of Chemical Physics</i> , 2016 , 144, 094702	3.9	15
33	Metalation of Porphyrins by Lanthanide Atoms at Interfaces: Direct Observation and Stimulation of Cerium Coordination to 2H-TPP/Ag(111). <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5083-5092	3.8	14
32	On-Surface Synthesis of Nonmetal Porphyrins. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1871-1881	16.8	13
31	Comparative study of the interfaces of graphene and hexagonal boron nitride with silver. <i>Physical Review B</i> , 2016 , 94,	3.3	13
30	Growth Morphologies and Defect Structure in Hexagonal Boron Nitride Films on Ni(111): A Combined STM and XPD Study. <i>E-Journal of Surface Science and Nanotechnology</i> , 2003 , 1, 124-129	0.7	13
29	Exploration of Interfacial Porphine Coupling Schemes and Hybrid Systems by Bond-Resolved Scanning Probe Microscopy. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16030-16035	16.4	13
28	Quantitative determination of a model organic/insulator/metal interface structure. <i>Nanoscale</i> , 2018 , 10, 21971-21977	7.7	13
27	Adsorption Conformation and Lateral Registry of Cobalt Porphine on Cu(111). <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5452-5461	3.8	12
26	Layered Insulator/Molecule/Metal Heterostructures with Molecular Functionality through Porphyrin Intercalation. <i>ACS Nano</i> , 2018 , 12, 2677-2684	16.7	11

25	In Vacuo Porphyrin Metalation on Ag(111) via Chemical Vapor Deposition of Ru ₃ (CO) ₁₂ : Mechanistic Insights. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 8751-8758	3.8	11
24	Scrutinizing individual CoTPP molecule adsorbed on coinage metal surfaces from the interplay of STM experiment and theory. <i>Surface Science</i> , 2015 , 635, 108-114	1.8	11
23	Orthogonal Insertion of Lanthanide and Transition-Metal Atoms in Metal-Organic Networks on Surfaces. <i>Angewandte Chemie</i> , 2015 , 127, 6261-6265	3.6	7
22	Photoelectron Diffraction for a Look inside Nanostructures. <i>Chimia</i> , 2006 , 60, 795-799	1.3	7
21	Assembly and Manipulation of a Prototypical N-Heterocyclic Carbene with a Metalloporphyrin Pedestal on a Solid Surface. <i>Journal of the American Chemical Society</i> , 2021 , 143, 4433-4439	16.4	7
20	Tetracene confinement in L-methionine gratings on the Ag(111) surface. <i>Surface Science</i> , 2016 , 643, 87-908	6	
19	Synthesis, characterization, monolayer assembly and 2D lanthanide coordination of a linear terphenyl-di(propiolonitrile) linker on Ag(111). <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 327-35	3	6
18	Bottom-Up Fabrication of a Metal-Supported Oxo-Metal Porphyrin. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 31011-31025	3.8	6
17	Tunable Interface of Ruthenium Porphyrins and Silver. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 3215-3224	3.4	6
16	Charge State Control of F16CoPc on h-BN/Cu(111). <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000080	4.6	5
15	BN-Patterning of Metallic Substrates through Metal Coordination of Decoupled Borazines. <i>Chemistry - A European Journal</i> , 2018 , 24, 9565-9571	4.8	5
14	Snapshots of Dynamic Adaptation: Two-Dimensional Molecular Architectonics with Linear Bis-Hydroxamic Acid Modules. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18948-18956	16.4	5
13	Surface-Mediated Ring-Opening and Porphyrin Deconstruction via Conformational Distortion. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15131-15138	16.4	5
12	Preservation of electronic properties of double-decker complexes on metallic supports. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8282-8287	3.6	3
11	In-Situ Growth of Gadolinium Phthalocyaninato Sandwich Complexes on the Ag(111) Surface. <i>ChemPhysChem</i> , 2019 , 20, 2301-2304	3.2	3
10	Borophenes made easy. <i>Science Advances</i> , 2021 , 7, eabk1490	14.3	2
9	Snapshots of Dynamic Adaptation: Two-Dimensional Molecular Architectonics with Linear Bis-Hydroxamic Acid Modules. <i>Angewandte Chemie</i> , 2019 , 131, 19124-19132	3.6	2
8	Influence of an Atomic Grating on a Magnetic Fermi Surface 2001 , 411-417		1

7	The Flexible On-Surface Self-Assembly of a Low-Symmetry Mabiq Ligand: An Unconventional Metal-Assisted Phase Transformation on Ag(111). <i>Journal of Physical Chemistry C</i> , 2021 , 125, 23178-23191	3.8	1
6	Self-assembly and spectroscopic fingerprints of photoactive pyrenyl tectons on BN/Cu(111). <i>Beilstein Journal of Nanotechnology</i> , 2020 , 11, 1470-1483	3	1
5	Conformational Control of Chemical Reactivity for Surface-Confined Ru-Porphyrins. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16561-16567	16.4	1
4	Exploration of Interfacial Porphine Coupling Schemes and Hybrid Systems by Bond-Resolved Scanning Probe Microscopy. <i>Angewandte Chemie</i> , 2018 , 130, 16262-16267	3.6	1
3	Conformational Control of Chemical Reactivity for Surface-Confined Ru-Porphyrins. <i>Angewandte Chemie</i> , 2021 , 133, 16697-16703	3.6	0
2	Actinide Coordination Chemistry on Surfaces: Synthesis, Manipulation, and Properties of Thorium Bis(porphyrinato) Complexes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14581-14591	16.4	0
1	Boron Nitride Monolayers: Charge State Control of F16CoPc on h-BN/Cu(111) (Adv. Mater. Interfaces 15/2020). <i>Advanced Materials Interfaces</i> , 2020 , 7, 2070083	4.6	