

# Harry MÃ¶nig

## List of Publications by Year in descending order

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53  
papers

1,273  
citations

361388

20  
h-index

361001

35  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1622  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of metallic potassium post-deposition treatment on epitaxial Cu(In,Ga)Se <sub>2</sub> . Thin Solid Films, 2022, 741, 139002.	1.8	2
2	Reversible Selbstorganisation eines N-heterocyclischen Carbens auf Metalloberflächen. Angewandte Chemie, 2022, 134, e202115104.	2.0	4
3	Reversible Self-Assembly of an N-Heterocyclic Carbene on Metal Surfaces. Angewandte Chemie - International Edition, 2022, 61, .	13.8	13
4	Surface Passivation and Detrimental Heat-Induced Diffusion Effects in RbF-Treated Cu(In,Ga)Se <sub>2</sub> Solar Cell Absorbers. ACS Applied Materials & Interfaces, 2022, 14, 34101-34112.	8.0	3
5	Azo bond formation on metal surfaces. Angewandte Chemie - International Edition, 2021, 60, 1458-1464.	13.8	6
6	Azobindungsbildung auf Metalloberflächen. Angewandte Chemie, 2021, 133, 1478-1485.	2.0	0
7	Benchmarking atomically defined AFM tips for chemical-selective imaging. Nanoscale, 2021, 13, 13617-13623.	5.6	4
8	Polymerization of silanes through dehydrogenative Si-H bond formation on metal surfaces. Nature Chemistry, 2021, 13, 350-357.	13.6	11
9	Mechanical and Chemical Interactions in Atomically Defined Contacts. Small, 2021, 17, e2101637.	10.0	6
10	Correlating facet orientation, defect-level density and dipole layer formation at the surface of polycrystalline CuInSe <sub>2</sub> thin films. Acta Materialia, 2020, 200, 463-470.	7.9	8
11	Electronic and compositional properties of the rear-side of stoichiometric CuInSe <sub>2</sub> absorbers. Progress in Photovoltaics: Research and Applications, 2020, 29, 775.	8.1	2
12	High resolution noncontact atomic force microscopy imaging with oxygen-terminated copper tips at 78 K. Nanoscale, 2020, 12, 2961-2965.	5.6	6
13	An Electron-Rich Cyclic (Alkyl)(Amino)Carbene on Au(111), Ag(111), and Cu(111) Surfaces. Angewandte Chemie - International Edition, 2020, 59, 13643-13646.	13.8	42
14	Tunable Thiolate Coordination Networks on Metal Surfaces. ChemNanoMat, 2020, 6, 1479-1484.	2.8	14
15	Ein elektronenreiches cyclisches (Alkyl)(amino)carben auf Au(111), Ag(111) und Cu(111) Oberflächen. Angewandte Chemie, 2020, 132, 13745-13749.	2.0	10
16	Oxidation/reduction cycles and their reversible effect on the dipole formation at CuInSe <sub>2</sub> surfaces. Physical Review Materials, 2020, 4, .	2.4	3
17	Passivation of the CuInSe <sub>2</sub> surface via cadmium pre-electrolyte treatment. Physical Review Materials. 2020, 4, .	2.4	2
18	Quinone-Facilitated Coordinated Bipyrene and Polypyrene on Au(111) by Capture of Gold Adatoms. Journal of Physical Chemistry C, 2019, 123, 16281-16287.	3.1	8

#	ARTICLE	IF	CITATIONS
19	From 3D to 2D: Structural, Spectroscopic and Theoretical Investigations of the Dimensionality Reduction in the [PtAl <sub>2</sub> ] <sup>+</sup> Polyanions of the Isotypic M <sub>2</sub> PtAl <sub>2</sub> Series (M = Ca, Ba, Eu). Chemistry - A European Journal, 2019, 25, 10735-10747.	3.3	24
20	Renewable energy conversion using nano- and microstructured materials. Beilstein Journal of Nanotechnology, 2019, 10, 771-773.	2.8	1
21	Diamantane Suspended Single Copper Atoms. Journal of the American Chemical Society, 2019, 141, 315-322.	13.7	14
22	Î±-Diazo Ketones in On-Surface Chemistry. Journal of the American Chemical Society, 2018, 140, 6000-6005.	13.7	24
23	Quantitative assessment of intermolecular interactions by atomic force microscopy imaging using copper oxide tips. Nature Nanotechnology, 2018, 13, 371-375.	31.5	67
24	Elucidating the Binding Modes of N-Heterocyclic Carbenes on a Gold Surface. Journal of the American Chemical Society, 2018, 140, 11889-11892.	13.7	90
25	Copper-oxide tip functionalization for submolecular atomic force microscopy. Chemical Communications, 2018, 54, 9874-9888.	4.1	16
26	Site-Specific Adsorption of Aromatic Molecules on a Metal/Metal Oxide Phase Boundary. Nano Letters, 2018, 18, 4123-4129.	9.1	7
27	Substrate-Mediated C-C and C-H Coupling after Dehalogenation. Journal of the American Chemical Society, 2017, 139, 3669-3675.	13.7	39
28	Intermolecular On-Surface Î¶-Bond Metathesis. Journal of the American Chemical Society, 2017, 139, 7012-7019.	13.7	40
29	OberflÄchenâ€Dominoreaktion: Glaserâ€Kupplung und dehydrierende Kupplung von DicarbonsÄuren unter Bildung eines polymeren Bisacylperoxids. Angewandte Chemie, 2016, 128, 9929-9934.	2.0	7
30	Understanding molecular self-assembly of a diol compound by considering competitive interactions. Physical Chemistry Chemical Physics, 2016, 18, 27390-27395.	2.8	6
31	Onâ€Surface Domino Reactions: Glaser Coupling and Dehydrogenative Coupling of a Biscarboxylic Acid To Form Polymeric Bisacylperoxides. Angewandte Chemie - International Edition, 2016, 55, 9777-9782.	13.8	50
32	Three-dimensional interaction force and tunneling current spectroscopy of point defects on rutile TiO <sub>2</sub> (110). Applied Physics Letters, 2016, 108, .	3.3	19
33	On-Surface Synthesis by Azideâ€Alkyne Cycloaddition Reactions on Metal Surfaces. Advances in Atom and Single Molecule Machines, 2016, , 101-114.	0.0	2
34	Submolecular Imaging by Noncontact Atomic Force Microscopy with an Oxygen Atom Rigidly Connected to a Metallic Probe. ACS Nano, 2016, 10, 1201-1209.	14.6	69
35	On-surface reductive coupling of aldehydes on Au(111). Chemical Communications, 2015, 51, 4887-4890.	4.1	17
36	Correlating the Local Defect-Level Density with the Macroscopic Composition and Energetics of Chalcopyrite Thin-Film Surfaces. ACS Applied Materials & Interfaces, 2015, 7, 13062-13072.	8.0	22

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37	Simultaneous Measurement of Multiple Independent Atomic-Scale Interactions Using Scanning Probe Microscopy: Data Interpretation and the Effect of Cross-Talk. Journal of Physical Chemistry C, 2015, 119, 6670-6677.	3.1	8
38	Surface Supported Gold-Organic Hybrids: On-Surface Synthesis and Surface Directed Orientation. Small, 2014, 10, 1361-1368.	10.0	62
39	Heat Induced Passivation of CuInSe <sub>2</sub> Surfaces: A Strategy to Optimize the Efficiency of Chalcopyrite Thin Film Solar Cells?. Advanced Materials Interfaces, 2014, 1, 1300040.	3.7	18
40	An X-ray photoelectron spectroscopy study of BF <sub>3</sub> adsorption on positively and negatively poled LiNbO <sub>3</sub> (0001). Surface Science, 2014, 626, 53-60.	1.9	10
41	Photochemical Glaser Coupling at Metal Surfaces. Journal of Physical Chemistry C, 2014, 118, 6272-6277.	3.1	74
42	Understanding Scanning Tunneling Microscopy Contrast Mechanisms on Metal Oxides: A Case Study. ACS Nano, 2013, 7, 10233-10244.	14.6	53
43	On-Surface Azide-Alkyne Cycloaddition on Au(111). ACS Nano, 2013, 7, 8509-8515.	14.6	115
44	Atom-specific forces and defect identification on surface-oxidized Cu(100) with combined 3D-AFM and STM measurements. Physical Review B, 2013, 87, .	3.2	36
45	Exploring atomic-scale lateral forces in the attractive regime: a case study on graphite (0001). Nanotechnology, 2012, 23, 405703.	2.6	10
46	Probing three-dimensional surface force fields with atomic resolution: Measurement strategies, limitations, and artifact reduction. Beilstein Journal of Nanotechnology, 2012, 3, 637-650.	2.8	25
47	The complex material properties of chalcopyrite and kesterite thin-film solar cell absorbers tackled by synchrotron-based analytics. Progress in Photovoltaics: Research and Applications, 2012, 20, 557-567.	8.1	10
48	Direct Evidence for a Reduced Density of Deep Level Defects at Grain Boundaries of CuInSe <sub>2</sub> Thin Films. Physical Review Letters, 2010, 105, 116802.	2.9	8
49	Surface Cu-depletion of Cu(In,Ga)Se <sub>2</sub> thin films: Further experimental evidence for a defect-induced surface reconstruction. Journal of Applied Physics, 2010, 107, 113540.	2.5	21
50	Surface Cu depletion of Cu(In,Ga)Se <sub>2</sub> films: An investigation by hard X-ray photoelectron spectroscopy. Acta Materialia, 2009, 57, 3645-3651.	7.9	68
51	Controlled variation of the information depth by angle dependent soft X-ray emission spectroscopy: A study on polycrystalline Cu(In,Ga)Se <sub>2</sub> . Applied Surface Science, 2008, 255, 2474-2477.	6.1	7
52	Cu-accumulation at the interface between sputter-(Zn,Mg)O and Cu(In,Ga)(S,Se) <sub>2</sub> - A key to understanding the need for buffer layers?. Thin Solid Films, 2007, 515, 6015-6019.	1.8	32
53	Conformational evolution following the sequential molecular dehydrogenation of PMDI on a Cu(111) surface. Nanoscale Advances, 0, , .	4.6	2