

# Stefan MÃ¼lligger

## List of Publications by Year in descending order

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41  
papers

923  
citations

430874

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h-index

454955

30  
g-index

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42  
docs citations

42  
times ranked

1275  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Bifunctional Electrocatalyst for Oxygen Evolution and Oxygen Reduction Reactions in Water. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2350-2355.	13.8	124
2	Molecular cobalt corrole complex for the heterogeneous electrocatalytic reduction of carbon dioxide. <i>Nature Communications</i> , 2019, 10, 3864.	12.8	112
3	Radio Frequency Scanning Tunneling Spectroscopy for Single-Molecule Spin Resonance. <i>Physical Review Letters</i> , 2014, 113, 133001.	7.8	56
4	Hexaphenyl thin films on clean and carbon covered Au(111) studied with TDS and LEED. <i>Surface Science</i> , 2006, 600, 1290-1299.	1.9	49
5	Surface-Supported Hydrocarbon $\dot{\text{C}}$ Radicals Show Kondo Behavior. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5718-5721.	3.1	47
6	Growth kinetics, structure, and morphology of para-quaterphenyl thin films on gold(111). <i>Journal of Chemical Physics</i> , 2004, 121, 2272-2277.	3.0	36
7	Epitaxial growth of quaterphenyl thin films on gold(111). <i>Applied Physics Letters</i> , 2003, 83, 4536-4538.	3.3	35
8	Spectroscopic STM Studies of Single Gold(III) Porphyrin Molecules. <i>Journal of the American Chemical Society</i> , 2009, 131, 17740-17741.	13.7	35
9	Adsorption, initial growth and desorption kinetics of p-quaterphenyl on polycrystalline gold surfaces. <i>Applied Surface Science</i> , 2004, 221, 184-196.	6.1	33
10	Interactions and Self-Assembly of Stable Hydrocarbon Radicals on a Metal Support. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22587-22594.	3.1	29
11	Preserving Charge and Oxidation State of Au(III) Ions in an Agent-Functionalized Nanocrystal Model System. <i>ACS Nano</i> , 2011, 5, 6480-6486.	14.6	26
12	Asymmetric saddling of single porphyrin molecules on Au(111). <i>Physical Review B</i> , 2011, 83, .	3.2	26
13	On-Surface Site-Selective Cyclization of Corrole Radicals. <i>ACS Nano</i> , 2017, 11, 3383-3391.	14.6	24
14	Bilayer of Terbium Double-Decker Single-Molecule Magnets. <i>Journal of Physical Chemistry C</i> , 2016, 120, 13581-13586.	3.1	22
15	Pattern formation in para-quaterphenyl film growth on gold substrates. <i>Synthetic Metals</i> , 2004, 146, 383-386.	3.9	21
16	The influence of carbon on the adsorption/desorption kinetics and monolayer formation of p-quaterphenyl on Au(111). <i>Surface Science</i> , 2005, 574, 322-330.	1.9	20
17	The influence of substrate temperature on the structure and morphology of sexiphenyl thin films on Au(111). <i>Applied Physics A: Materials Science and Processing</i> , 2007, 87, 103-111.	2.3	20
18	Organic Molecular Beam Deposition of Oligophenyls on Au(111): A Study by X-ray Absorption Spectroscopy. <i>ChemPhysChem</i> , 2006, 7, 2552-2558.	2.1	18

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19	Structure and morphology of quaterphenyl thin films on Au(111) – The influence of surface contamination by carbon. <i>Journal of Crystal Growth</i> , 2005, 283, 397-403.	1.5	16
20	Spectroscopic Scanning Tunneling Microscopy Studies of Single Surface-Supported Free-Base Corroles. <i>Journal of the American Chemical Society</i> , 2012, 134, 91-94.	13.7	16
21	Substrate structure dependence of the growth modes of p-quaterphenyl thin films on gold. <i>Thin Solid Films</i> , 2005, 484, 408-414.	1.8	14
22	Radio-Wave Oscillations of Molecular-Chain Resonators. <i>Physical Review Letters</i> , 2014, 112, 117201.	7.8	14
23	X-ray Spectroscopy of Thin Film Free-Base Corroles: A Combined Theoretical and Experimental Characterization. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2192-2200.	3.1	14
24	Attoampere Nanoelectrochemistry. <i>Small</i> , 2021, 17, e2101253.	10.0	14
25	Combined XPS, AFM, TEM and ellipsometric studies on nanoscale layers in organic light emitting diodes. <i>Surface Science</i> , 2002, 507-510, 473-479.	1.9	13
26	Dehydrogenation of oligo-phenylenes on gold surfaces. <i>Surface Science</i> , 2006, 600, 3982-3986.	1.9	13
27	Manipulation of organic “needles” using an STM operated under SEM control. <i>Surface Science</i> , 2006, 600, 2411-2416.	1.9	13
28	Manipulation resolves non-trivial structure of corrole monolayer on Ag(111). <i>Nanotechnology</i> , 2016, 27, 025704.	2.6	10
29	Radio-frequency excitation of single molecules by scanning tunnelling microscopy. <i>Nanotechnology</i> , 2014, 25, 135705.	2.6	9
30	Synthesis and characterization of meso-substituted A2B corroles with extended $\pi$ -electronic structure. <i>Monatshefte für Chemie</i> , 2018, 149, 773-781.	1.8	9
31	Mechanism for nuclear and electron spin excitation by radio frequency current. <i>Physical Review B</i> , 2015, 92, .	3.2	8
32	Identifying On-Surface Site-Selective Chemical Conversions by Theory-Aided NEXAFS Spectroscopy: The Case of Free-Base Corroles on Ag(111). <i>Chemistry - A European Journal</i> , 2018, 24, 6787-6797.	3.3	8
33	Stable $\pi$ -radical 2,2-diphenyl-1-picrylhydrazyl (DPPH) adsorbed at the elbows of 22 $\times$ 3 reconstructed Au(111). <i>Surface Science</i> , 2020, 700, 121676.	1.9	5
34	Towards dielectric relaxation at a single molecule scale. <i>Scientific Reports</i> , 2022, 12, 2865.	3.3	4
35	Frequency-independent voltage amplitude across a tunnel junction. <i>Review of Scientific Instruments</i> , 2021, 92, 043710.	1.3	3
36	Single-molecule chemical reduction induced by low-temperature scanning tunneling microscopy: A case study of gold-porphyrin on Au(111). <i>Surface Science</i> , 2018, 678, 157-162.	1.9	2

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37	Observation of High-Valent Manganese(V)â€“Corrole Complexes During Metalation of meso-Functionalized A3-Corroles under Aerobic Conditions. Synlett, 2015, 26, 2180-2184.	1.8	1
38	Radio frequency surface plasma oscillations: electrical excitation and detection by Ar/Ag(111). Scientific Reports, 2017, 7, 9708.	3.3	1
39	Mechanical and Magnetic Single-Molecule Excitations by Radio-Frequency Scanning Tunneling Microscopy. Advances in Atom and Single Molecule Machines, 2017, , 187-218.	0.0	1
40	Enhanced conductance response in radio frequency scanning tunnelling microscopy. Scientific Reports, 2022, 12, 6183.	3.3	1
41	MolekÃ¼lketten als kleinste mechanische Resonatoren. Physik in Unserer Zeit, 2014, 45, 162-163.	0.0	0