Stefan MÃ¼llegger

List of Publications by Year
in descending order

41	923	430874 18	454955 30
papers	citations	h-index	g-index

42	42	42	1275
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Towards dielectric relaxation at a single molecule scale. Scientific Reports, 2022, 12, 2865.	3.3	4
2	Enhanced conductance response in radio frequency scanning tunnelling microscopy. Scientific Reports, 2022, 12, 6183.	3.3	1
3	Frequency-independent voltage amplitude across a tunnel junction. Review of Scientific Instruments, 2021, 92, 043710.	1.3	3
4	Attoampere Nanoelectrochemistry. Small, 2021, 17, e2101253.	10.0	14
5	Stable Ï€-radical 2,2-diphenyl-1-picrylhydrazyl (DPPH) adsorbed at the elbows of 22Ã—3 reconstructed Au(111). Surface Science, 2020, 700, 121676.	1.9	5
6	Molecular cobalt corrole complex for the heterogeneous electrocatalytic reduction of carbon dioxide. Nature Communications, 2019, 10, 3864.	12.8	112
7	Identifying Onâ€Surface Siteâ€Selective Chemical Conversions by Theoryâ€Aided NEXAFS Spectroscopy: The Case of Freeâ€Base Corroles on Ag(111). Chemistry - A European Journal, 2018, 24, 6787-6797.	3.3	8
8	Single-molecule chemical reduction induced by low-temperature scanning tunneling microscopy: A case study of gold-porphyrin on Au(111). Surface Science, 2018, 678, 157-162.	1.9	2
9	Synthesis and characterization of meso-substituted A2B corroles with extended Ï€-electronic structure. Monatshefte FÃ¼r Chemie, 2018, 149, 773-781.	1.8	9
10	On-Surface Site-Selective Cyclization of Corrole Radicals. ACS Nano, 2017, 11, 3383-3391.	14.6	24
11	X-ray Spectroscopy of Thin Film Free-Base Corroles: A Combined Theoretical and Experimental Characterization. Journal of Physical Chemistry C, 2017, 121, 2192-2200.	3.1	14
12	Radio frequency surface plasma oscillations: electrical excitation and detection by Ar/Ag(111). Scientific Reports, 2017, 7, 9708.	3.3	1
13	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
14	A Bifunctional Electrocatalyst for Oxygen Evolution and Oxygen Reduction Reactions in Water. Angewandte Chemie - International Edition, 2016, 55, 2350-2355.	13.8	124
15	Bilayer of Terbium Double-Decker Single-Molecule Magnets. Journal of Physical Chemistry C, 2016, 120, 13581-13586.	3.1	22
16	Manipulation resolves non-trivial structure of corrole monolayer on Ag(111). Nanotechnology, 2016, 27, 025704.	2.6	10
17	Mechanism for nuclear and electron spin excitation by radio frequency current. Physical Review B, 2015, 92, .	3.2	8
18	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

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19	Radio-frequency excitation of single molecules by scanning tunnelling microscopy. Nanotechnology, 2014, 25, 135705.	2.6	9
20	MolekÃ¼lketten als kleinste mechanische Resonatoren. Physik in Unserer Zeit, 2014, 45, 162-163.	0.0	0
21	Radio-Wave Oscillations of Molecular-Chain Resonators. Physical Review Letters, 2014, 112, 117201.	7.8	14
22	Radio Frequency Scanning Tunneling Spectroscopy for Single-Molecule Spin Resonance. Physical Review Letters, 2014, 113, 133001.	7.8	56
23	Surface-Supported Hydrocarbon Ï€ Radicals Show Kondo Behavior. Journal of Physical Chemistry C, 2013, 117, 5718-5721.	3.1	47
24	Interactions and Self-Assembly of Stable Hydrocarbon Radicals on a Metal Support. Journal of Physical Chemistry C, 2012, 116, 22587-22594.	3.1	29
25	Spectroscopic Scanning Tunneling Microscopy Studies of Single Surface-Supported Free-Base Corroles. Journal of the American Chemical Society, 2012, 134, 91-94.	13.7	16
26	Preserving Charge and Oxidation State of Au(III) Ions in an Agent-Functionalized Nanocrystal Model System. ACS Nano, 2011, 5, 6480-6486.	14.6	26
27	Asymmetric saddling of single porphyrin molecules on Au(111). Physical Review B, 2011, 83, .	3.2	26
28	Spectroscopic STM Studies of Single Gold(III) Porphyrin Molecules. Journal of the American Chemical Society, 2009, 131, 17740-17741.	13.7	35
29	The influence of substrate temperature on the structure and morphology of sexiphenyl thin films on Au(111). Applied Physics A: Materials Science and Processing, 2007, 87, 103-111.	2.3	20
30	Hexaphenyl thin films on clean and carbon covered Au(111) studied with TDS and LEED. Surface Science, 2006, 600, 1290-1299.	1.9	49
31	Dehydrogenation of oligo-phenylenes on gold surfaces. Surface Science, 2006, 600, 3982-3986.	1.9	13
32	Manipulation of organic â€œneedlesâ€•using an STM operated under SEM control. Surface Science, 2006, 600, 2411-2416.	1.9	13
33	Organic Molecular Beam Deposition of Oligophenyls on Au(111): A Study by X-ray Absorption Spectroscopy. ChemPhysChem, 2006, 7, 2552-2558.	2.1	18
34	Structure and morphology of quaterphenyl thin films on Au(111)â€”The influence of surface contamination by carbon. Journal of Crystal Growth, 2005, 283, 397-403.	1.5	16
35	Substrate structure dependence of the growth modes of p-quaterphenyl thin films on gold. Thin Solid Films, 2005, 484, 408-414.	1.8	14
36	The influence of carbon on the adsorption/desorption kinetics and monolayer formation of p-quaterphenyl on Au(111). Surface Science, 2005, 574, 322-330.	1.9	20

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37	Adsorption, initial growth and desorption kinetics of p-quaterphenyl on polycrystalline gold surfaces. Applied Surface Science, 2004, 221, 184-196.	6.1	33
38	Growth kinetics, structure, and morphology of para-quaterphenyl thin films on gold(111). Journal of Chemical Physics, 2004, 121, 2272-2277.	3.0	36
39	Pattern formation in para-quaterphenyl film growth on gold substrates. Synthetic Metals, 2004, 146, 383-386.	3.9	21
40	Epitaxial growth of quaterphenyl thin films on gold(111). Applied Physics Letters, 2003, 83, 4536-4538.	3.3	35
41	Combined XPS, AFM, TEM and ellipsometric studies on nanoscale layers in organic light emitting diodes. Surface Science, 2002, 507-510, 473-479.	1.9	13