Joachim Schnadt

List of Publications by Year
in descending order

103	4,537	76196	110170
papers	citations	40 h-index	64 g-index

105	105	105	5874
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ambient pressure x-ray photoelectron spectroscopy setup for synchrotron-based in situ and operando atomic layer deposition research. Review of Scientific Instruments, 2022, 93, 013905.	0.6	9
2	Oxygen relocation during HfO₂ ALD on InAs. Faraday Discussions, 2022, 236, 71-85.	1.6	6
3	Role of Temperature, Pressure, and Surface Oxygen Migration in the Initial Atomic Layer Deposition of HfO₂on Anatase TiO₂(101). Journal of Physical Chemistry C, 2022, 126, 12210-12221.	1.5	5
4	Upgrade of the SPECIES beamline at the MAX IV Laboratory. Journal of Synchrotron Radiation, 2021, 28, 588-601.	1.0	19
5	HIPPIE: a new platform for ambient-pressure X-ray photoelectron spectroscopy at the MAX IV Laboratory. Journal of Synchrotron Radiation, 2021, 28, 624-636.	1.0	60
6	How Surface Species Drive Product Distribution during Ammonia Oxidation: An STM and Operando APXPS Study. ACS Catalysis, 2021, 11, 8261-8273.	5.5	13
7	Spin propensity in resonant photoemission of transition metal complexes. Physical Review Research, 2021, 3, .	1.3	5
8	Gas Pulseâ€“X-Ray Probe Ambient Pressure Photoelectron Spectroscopy with Submillisecond Time Resolution. ACS Applied Materials & Interfaces, 2021, 13, 47629-47641.	4.0	9
9	Stroboscopic operando spectroscopy of the dynamics in heterogeneous catalysis by event-averaging. Nature Communications, 2021, 12, 6117.	5.8	27
10	Resonant X-ray photo-oxidation of light-harvesting iron (II/III) N-heterocyclic carbene complexes. Scientific Reports, 2021, 11, 22144.	1.6	1
11	Adsorption of 3-(triethoxysilyl)propionitrile on a rutile TiO2(110) surface: An x-ray photoelectron spectroscopy study. AIP Conference Proceedings, 2020, , .	0.3	0
12	Atomic Layer Deposition of Hafnium Oxide on InAs: Insight from Time-Resolved in Situ Studies. ACS Applied Electronic Materials, 2020, 2, 3915-3922.	2.0	23
13	Present and new frontiers in materials research by ambient pressure x-ray photoelectron spectroscopy. Journal of Physics Condensed Matter, 2020, 32, 413003.	0.7	54
14	Site-Selective Orbital Interactions in an Ultrathin Iron-Carbene Photosensitizer Film. Journal of Physical Chemistry A, 2020, 124, 1603-1609.	1.1	12
15	Directed Câ€“H Halogenation Reactions Catalysed by Pd^{II} Supported on Polymers under Batch and Continuous Flow Conditions. Chemistry - A European Journal, 2019, 25, 13591-13597.	1.7	14
16	Experimental and theoretical gas phase electronic structure study of tetrakis(dimethylamino) complexes of Ti(IV) and Hf(IV). Journal of Electron Spectroscopy and Related Phenomena, 2019, 234, 80-85.	0.8	9
17	Coverage-dependent oxidation and reduction of vanadium supported on anatase TiO2(1â€¯0â€¯1). Journal of Catalysis, 2018, 360, 118-126.	3.1	16
18	In situ characterization of the deposition of anatase TiO2 on rutile TiO2(110). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	0.9	13

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19	Self-cleaning and surface chemical reactions during hafnium dioxide atomic layer deposition on indium arsenide. Nature Communications, 2018, 9, 1412.	5.8	46
20	Adsorption of CO on the Fe₃O₄(001) Surface. Journal of Physical Chemistry B, 2018, 122, 721-729.	1.2	20
21	Thin-Film Growth and Oxidation of Surfaces Under Relevant Pressure Conditions. , 2018, , 699-710.		1
22	A Pd^{II} Carbene Complex with Anthracene Sideâ€Arms for Ï€â€Stacking on Reduced Graphene Oxide (rGO): Activity towards Undirected Câ€“H Oxygenation of Arenes. European Journal of Inorganic Chemistry, 2018, 2018, 4742-4746.	1.0	17
23	Ultra-fast intramolecular vibronic coupling revealed by RIXS and RPES maps of an aromatic adsorbate on TiO2(110). Journal of Chemical Physics, 2018, 148, 204705.	1.2	2
24	The SPECIES beamline at the MAX IV Laboratory: aÂfacility for soft X-ray RIXS and APXPS. Journal of Synchrotron Radiation, 2017, 24, 344-353.	1.0	38
25	Electronic structure and excited state properties of iron carbene photosensitizers â€“ A combined X-ray absorption and quantum chemical investigation. Chemical Physics Letters, 2017, 683, 559-566.	1.2	14
26	Polymerâ€Supported Palladium(II) Carbene Complexes: Catalytic Activity, Recyclability, and Selectivity in Cî—¸H Acetoxylation of Arenes. Chemistry - A European Journal, 2017, 23, 8457-8465.	1.7	25
27	A low-spin Fe(iii) complex with 100-ps ligand-to-metal charge transfer photoluminescence. Nature, 2017, 543, 695-699.	13.7	287
28	Interaction of Sulfur Dioxide and Near-Ambient Pressures of Water Vapor with Cuprous Oxide Surfaces. Journal of Physical Chemistry C, 2017, 121, 24011-24024.	1.5	11
29	Sonogashira cross-coupling over Au(1â€‰1â€‰1): from UHV to ambient pressure. Journal of Physics Condensed Matter, 2017, 29, 444005.	0.7	5
30	Ambient pressure phase transitions over Ir(1â€‰1â€‰1): at the onset of CO oxidation. Journal of Physics Condensed Matter, 2017, 29, 444002.	0.7	10
31	Core level shifts of intercalated graphene. 2D Materials, 2017, 4, 015013.	2.0	45
32	Adsorption and Reaction of CO and NO on Ir(111) Under Near Ambient Pressure Conditions. Topics in Catalysis, 2016, 59, 487-496.	1.3	18
33	UHV and Ambient Pressure XPS: Potentials for Mg, MgO, and Mg(OH)2 Surface Analysis. Jom, 2016, 68, 3070-3077.	0.9	8
34	Iron phthalocyanine on Cu(111): Coverage-dependent assembly and symmetry breaking, temperature-induced homocoupling, and modification of the adsorbate-surface interaction by annealing. Journal of Chemical Physics, 2016, 144, 094702.	1.2	19
35	Oxidation of Ultrathin FeO(111) Grown on Pt(111): Spectroscopic Evidence for Hydroxylation. Topics in Catalysis, 2016, 59, 506-515.	1.3	21
36	A versatile instrument for ambient pressure x-ray photoelectron spectroscopy: The Lund cell approach. Surface Science, 2016, 646, 160-169.	0.8	69

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37	Near Ambient Pressure X-ray Photoelectron Spectroscopy Study of the Atomic Layer Deposition of TiO₂ on RuO₂(110). Journal of Physical Chemistry C, 2016, 120, 243-251.	1.5	45
38	Covalent immobilization of molecularly imprinted polymer nanoparticles on a gold surface using carbodiimide coupling for chemical sensing. Journal of Colloid and Interface Science, 2016, 461, 1-8.	5.0	70
39	Nature of the bias-dependent symmetry reduction of iron phthalocyanine on Cu(111). Physical Review B, 2015, 92, .	1.1	22
40	Covalent immobilization of molecularly imprinted polymer nanoparticles using an epoxy silane. Journal of Colloid and Interface Science, 2015, 445, 277-284.	5.0	50
41	Implementation of Molecularly Imprinted Polymer Beads for Surface Enhanced Raman Detection. Analytical Chemistry, 2015, 87, 5056-5061.	3.2	67
42	Real-Time Study of CVD Growth of Silicon Oxide on Rutile TiO₂(110) Using Tetraethyl Orthosilicate. Journal of Physical Chemistry C, 2015, 119, 19149-19161.	1.5	10
43	Photoconjugation of Molecularly Imprinted Polymer Nanoparticles for Surface-Enhanced Raman Detection of Propranolol. ACS Applied Materials & Interfaces, 2015, 7, 27479-27485.	4.0	28
44	Fluorescent Boronic Acid Polymer Grafted on Silica Particles for Affinity Separation of Saccharides. ACS Applied Materials & Interfaces, 2014, 6, 1406-1414.	4.0	69
45	Epoxidation of olefins with molecular oxygen as the oxidant using gold catalysts supported on polyoxometalates. Green Chemistry, 2014, 16, 1586.	4.6	42
46	High-Coverage Oxygen-Induced Surface Structures on Ag(111). Journal of Physical Chemistry C, 2014, 118, 15324-15331.	1.5	46
47	Controlled short-linkage assembly of functional nano-objects. Applied Surface Science, 2014, 300, 22-28.	3.1	18
48	CO Intercalation of Graphene on Ir(111) in the Millibar Regime. Journal of Physical Chemistry C, 2013, 117, 16438-16447.	1.5	79
49	In Situ Study of CO Oxidation on HOPGâ€Supported Pt Nanoparticles. ChemPhysChem, 2013, 14, 1553-1557.	1.0	16
50	Use of astigmatic re-focusing at HP-XPS end-station. Journal of Physics: Conference Series, 2013, 425, 152005.	0.3	1
51	The new ambient-pressure X-ray photoelectron spectroscopy instrument at MAX-lab. Journal of Synchrotron Radiation, 2012, 19, 701-704.	1.0	119
52	Pyridine Adsorption on Single-Layer Iron Phthalocyanine on Au(111). Journal of Physical Chemistry C, 2011, 115, 20201-20208.	1.5	34
53	Comparison of the Carbonyl and Nitrosyl Complexes Formed by Adsorption of CO and NO on Monolayers of Iron Phthalocyanine on Au(111). Journal of Physical Chemistry C, 2011, 115, 24718-24727.	1.5	49
54	Modification of the Size of Supported Clusters by Coadsorption of an Organic Compound: Gold andl-Cysteine on Rutile TiO2(110). Langmuir, 2011, 27, 11466-11474.	1.6	6

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55	Unconventional Zwitterionic State of <scp>l</scp>-Cysteine. Journal of Physical Chemistry Letters, 2011, 2, 1677-1681.	2.1	25
56	Role of Deprotonation and Cu Adatom Migration in Determining the Reaction Pathways of Oxalic Acid Adsorption on Cu(111). Journal of Physical Chemistry C, 2011, 115, 21177-21182.	1.5	22
57	Adsorption of L-cysteine on rutile TiO2(110). Surface Science, 2011, 605, 179-186.	0.8	52
58	Ammonia adsorption on iron phthalocyanine on Au(111): Influence on adsorbateâ€“substrate coupling and molecular spin. Journal of Chemical Physics, 2011, 134, 114710.	1.2	40
59	Adsorption of ammonia on multilayer iron phthalocyanine. Journal of Chemical Physics, 2011, 134, 114711.	1.2	17
60	Tuning the spin state of iron phthalocyanine by ligand adsorption. Journal of Physics Condensed Matter, 2010, 22, 472002.	0.7	59
61	Interplay of adsorbate-adsorbate and adsorbate-substrate interactions in self-assembled molecular surface nanostructures. Nano Research, 2010, 3, 459-471.	5.8	29
62	X-ray absorption and photoemission spectroscopy of zinc protoporphyrin adsorbed on rutile TiO2(110) prepared by in situ electrospray deposition. Journal of Chemical Physics, 2010, 132, 084703.	1.2	52
63	Adsorption of a Ru(II) dye complex on the Au(111) surface: Photoemission and scanning tunneling microscopy. Journal of Chemical Physics, 2009, 130, 164704.	1.2	25
64	Lack of surface oxide layers and facile bulk oxide formation on Pd(110). Physical Review B, 2009, 80, .	1.1	41
65	Electron spectroscopy study of the initial stages of iron phthalocyanine growth on highly oriented pyrolitic graphite. Journal of Chemical Physics, 2009, 131, 214709.	1.2	29
66	Dissociation of water on oxygen-covered Rh{111}. Journal of Chemical Physics, 2009, 131, 214707.	1.2	20
67	Experimental and theoretical study of oxygen adsorption structures on Ag(111). Physical Review B, 2009, 80, .	1.1	90
68	Molecular damage in bi-isonicotinic acid adsorbed on rutile TiO2(110). Surface Science, 2008, 602, 1693-1698.	0.8	10
69	Stressing Pd atoms: Initial oxidation of the Pd(110) surface. Surface Science, 2008, 602, 2440-2447.	0.8	31
70	Formation of Trioctylamine from Octylamine On Au(111). Journal of the American Chemical Society, 2008, 130, 5388-5389.	6.6	30
71	Photoemission, resonant photoemission, and x-ray absorption of a Ru(II) complex adsorbed on rutile TiO2(110) prepared by in situ electrospray deposition. Journal of Chemical Physics, 2008, 129, 114701.	1.2	80
72	Extended One-Dimensional Supramolecular Assembly on a Stepped Surface. Physical Review Letters, 2008, 100, 046103.	2.9	38

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73	Adsorption and charge transfer dynamics of bi-isonicotinic acid on Au(111). Journal of Chemical Physics, 2007, 127, 134707.	1.2	21
74	Bulk electronic structure ofK3C60as revealed by soft x-rays. Physical Review B, 2007, 75, .	1.1	6
75	A Cu/Pt Near-Surface Alloy for Waterâ^'Gas Shift Catalysis. Journal of the American Chemical Society, 2007, 129, 6485-6490.	6.6	233
76	Charge-Transfer Dynamics at Model Metalâ^'Organic Solar Cell Surfaces. Journal of Physical Chemistry C, 2007, 111, 16646-16655.	1.5	28
77	The adsorption of iron phthalocyanine on graphite: A scanning tunnelling microscopy study. Surface Science, 2007, 601, 3661-3667.	0.8	82
78	Ethylene dissociation on flat and stepped Ni(111): A combined STM and DFT study. Surface Science, 2006, 600, 66-77.	0.8	98
79	Revisiting the Structure of thep(4Ã—4)Surface Oxide on Ag(111). Physical Review Letters, 2006, 96, 146101.	2.9	144
80	Comparison of the size of excitonic effects in molecular Ï€ systems as measured by core and valence spectroscopies. Chemical Physics, 2005, 312, 39-45.	0.9	32
81	Controlling the catalytic bond-breaking selectivity of Ni surfaces by step blocking. Nature Materials, 2005, 4, 160-162.	13.3	263
82	Bulk and surface charge states ofK3C60. Physical Review B, 2005, 71, .	1.1	17
83	Intramolecular vibronic dynamics in molecular solids:C60. Physical Review B, 2005, 72, .	1.1	16
84	The Adsorption Structure of NO on Pd(111) at High Pressures Studied by STM and DFT. Journal of Physical Chemistry B, 2005, 109, 14262-14265.	1.2	35
85	Insulating surface layer on single crystal K $mathsf{_{3}}mathsf{C}mathsf{_{60}}$. European Physical Journal B, 2004, 41, 435-438.	0.6	6
86	CO Desorption Rate Dependence on CO Partial Pressure over Platinum Fuel Cell Catalysts. Fuel Cells, 2004, 4, 309-319.	1.5	49
87	High-Coverage Structures of Carbon Monoxide Adsorbed on Pt(111) Studied by High-Pressure Scanning Tunneling Microscopyâ€. Journal of Physical Chemistry B, 2004, 108, 14497-14502.	1.2	144
88	Adsorption and Charge-Transfer Study of Bi-isonicotinic Acid on In Situ-Grown Anatase TiO2Nanoparticles. Journal of Physical Chemistry B, 2004, 108, 3114-3122.	1.2	35
89	Structural study of adsorption of isonicotinic acid and related molecules on rutile TiO2(110) II: XPS. Surface Science, 2003, 544, 74-86.	0.8	95
90	Metalorganic chemical vapor deposition of anatase titanium dioxide on Si: Modifying the interface by pre-oxidation. Surface Science, 2003, 530, 63-70.	0.8	42

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91	Structural study of adsorption of isonicotinic acid and related molecules on rutile TiO2(110) I: XAS and STM. Surface Science, 2003, 540, 39-54.	0.8	52
92	Alignment of valence photoemission, x-ray absorption, and substrate density of states for an adsorbate on a semiconductor surface. Physical Review B, 2003, 67, .	1.1	43
93	Excited-state charge transfer dynamics in systems of aromatic adsorbates on TiO2 studied with resonant core techniques. Journal of Chemical Physics, 2003, 119, 12462-12472.	1.2	48
94	Titanium dioxide thin-film growth on silicon (111) by chemical vapor deposition of titanium(IV) isopropoxide. Journal of Applied Physics, 2002, 92, 3381-3387.	1.1	45
95	Electron dynamics within Ru-2,2â€²-bipyridine complexesâ€”an N1s core level excitation study. Chemical Physics, 2002, 285, 167-176.	0.9	18
96	Experimental evidence for sub-3-fs charge transfer from an aromatic adsorbate to a semiconductor. Nature, 2002, 418, 620-623.	13.7	346
97	Hydrogen-bond induced surface core-level shift in pyridine carboxylic acids. Surface Science, 2001, 486, 157-166.	0.8	49
98	Hydrogen-Bond Induced Surface Core-Level Shift in Isonicotinic Acid. Journal of Physical Chemistry B, 2001, 105, 1917-1920.	1.2	61
99	Beamline-induced chromium structure in carbon K-edge absorption spectra. Nuclear Instruments & Methods in Physics Research B, 2001, 184, 609-614.	0.6	8
100	Nâ€Š1s x-ray absorption study of the bonding interaction of bi-isonicotinic acid adsorbed on rutile TiO2(110). Journal of Chemical Physics, 2000, 112, 3945-3948.	1.2	68
101	X-ray photoelectron spectroscopy of low surface concentration mass-selected Ag clusters. Journal of Chemical Physics, 2000, 113, 9233-9238.	1.2	22
102	Electron-spectroscopy study ofLiC60:Charge transfer and dimer formation. Physical Review B, 2000, 62, 4253-4256.	1.1	13
103	Time Resolved Ambient Pressure X-ray Photoelectron Spectroscopy. ACS Symposium Series, 0, , 219-248.	0.5	4