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	Experimental evidence for sub-3-fs charge transfer from an aromatic adsorbate to a semiconductor. Nature, 2002, 418, 620-623.	13.7	346
2	A low-spin Fe(iii) complex with 100-ps ligand-to-metal charge transfer photoluminescence. Nature, 2017, 543, 695-699.	13.7	287
3	Controlling the catalytic bond-breaking selectivity of Ni surfaces by step blocking. Nature Materials, 2005, 4, 160-162.	13.3	263
4	A Cu/Pt Near-Surface Alloy for Waterâ^'Gas Shift Catalysis. Journal of the American Chemical Society, 2007, 129, 6485-6490.	6.6	233
5	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
6	Revisiting the Structure of thep(4Ã—4)Surface Oxide on Ag(111). Physical Review Letters, 2006, 96, 146101.	2.9	144
7	The new ambient-pressure X-ray photoelectron spectroscopy instrument at MAX-lab. Journal of Synchrotron Radiation, 2012, 19, 701-704.	1.0	119
8	Ethylene dissociation on flat and stepped Ni(111): A combined STM and DFT study. Surface Science, 2006, 600, 66-77.	0.8	98
9	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
10	Experimental and theoretical study of oxygen adsorption structures on Ag(111). Physical Review B, 2009, 80, .	1.1	90
11	The adsorption of iron phthalocyanine on graphite: A scanning tunnelling microscopy study. Surface Science, 2007, 601, 3661-3667.	0.8	82
12	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
13	CO Intercalation of Graphene on Ir(111) in the Millibar Regime. Journal of Physical Chemistry C, 2013, 117, 16438-16447.	1.5	79
14	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
15	Fluorescent Boronic Acid Polymer Grafted on Silica Particles for Affinity Separation of Saccharides. ACS Applied Materials & Interfaces, 2014, 6, 1406-1414.	4.0	69
16	A versatile instrument for ambient pressure x-ray photoelectron spectroscopy: The Lund cell approach. Surface Science, 2016, 646, 160-169.	0.8	69
17	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
18	Implementation of Molecularly Imprinted Polymer Beads for Surface Enhanced Raman Detection. Analytical Chemistry, 2015, 87, 5056-5061.	3.2	67

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19	Hydrogen-Bond Induced Surface Core-Level Shift in Isonicotinic Acid. Journal of Physical Chemistry B, 2001, 105, 1917-1920.	1.2	61
20	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
21	Tuning the spin state of iron phthalocyanine by ligand adsorption. Journal of Physics Condensed Matter, 2010, 22, 472002.	0.7	59
22	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
23	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
24	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
25	Adsorption of L-cysteine on rutile TiO2(110). Surface Science, 2011, 605, 179-186.	0.8	52
26	Covalent immobilization of molecularly imprinted polymer nanoparticles using an epoxy silane. Journal of Colloid and Interface Science, 2015, 445, 277-284.	5.0	50
27	Hydrogen-bond induced surface core-level shift in pyridine carboxylic acids. Surface Science, 2001, 486, 157-166.	0.8	49
28	CO Desorption Rate Dependence on CO Partial Pressure over Platinum Fuel Cell Catalysts. Fuel Cells, 2004, 4, 309-319.	1.5	49
29	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
30	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
31	High-Coverage Oxygen-Induced Surface Structures on Ag(111). Journal of Physical Chemistry C, 2014, 118, 15324-15331.	1.5	46
32	Self-cleaning and surface chemical reactions during hafnium dioxide atomic layer deposition on indium arsenide. Nature Communications, 2018, 9, 1412.	5.8	46
33	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
34	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
35	Core level shifts of intercalated graphene. 2D Materials, 2017, 4, 015013.	2.0	45
36	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

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37	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
38	Epoxidation of olefins with molecular oxygen as the oxidant using gold catalysts supported on polyoxometalates. Green Chemistry, 2014, 16, 1586.	4.6	42
39	Lack of surface oxide layers and facile bulk oxide formation on Pd(110). Physical Review B, 2009, 80, .	1.1	41
40	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
41	Extended One-Dimensional Supramolecular Assembly on a Stepped Surface. Physical Review Letters, 2008, 100, 046103.	2.9	38
42	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
43	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
44	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
45	Pyridine Adsorption on Single-Layer Iron Phthalocyanine on Au(111). Journal of Physical Chemistry C, 2011, 115, 20201-20208.	1.5	34
46	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
47	Stressing Pd atoms: Initial oxidation of the Pd(110) surface. Surface Science, 2008, 602, 2440-2447.	0.8	31
48	Formation of Trioctylamine from Octylamine On Au(111). Journal of the American Chemical Society, 2008, 130, 5388-5389.	6.6	30
49	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
50	Interplay of adsorbate-adsorbate and adsorbate-substrate interactions in self-assembled molecular surface nanostructures. Nano Research, 2010, 3, 459-471.	5.8	29
51	Charge-Transfer Dynamics at Model Metalâ^'Organic Solar Cell Surfaces. Journal of Physical Chemistry C, 2007, 111, 16646-16655.	1.5	28
52	Photoconjugation of Molecularly Imprinted Polymer Nanoparticles for Surface-Enhanced Raman Detection of Propranolol. ACS Applied Materials & Interfaces, 2015, 7, 27479-27485.	4.0	28
53	Stroboscopic operando spectroscopy of the dynamics in heterogeneous catalysis by event-averaging. Nature Communications, 2021, 12, 6117.	5.8	27
54	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

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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	Polymerâ€Supported Palladium(II) Carbene Complexes: Catalytic Activity, Recyclability, and Selectivity in Câ^'H Acetoxylation of Arenes. Chemistry - A European Journal, 2017, 23, 8457-8465.	1.7	25
57	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
58	X-ray photoelectron spectroscopy of low surface concentration mass-selected Ag clusters. Journal of Chemical Physics, 2000, 113, 9233-9238.	1.2	22
59	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
60	Nature of the bias-dependent symmetry reduction of iron phthalocyanine on Cu(111). Physical Review B, 2015, 92, .	1.1	22
61	Adsorption and charge transfer dynamics of bi-isonicotinic acid on Au(111). Journal of Chemical Physics, 2007, 127, 134707.	1.2	21
62	Oxidation of Ultrathin FeO(111) Grown on Pt(111): Spectroscopic Evidence for Hydroxylation. Topics in Catalysis, 2016, 59, 506-515.	1.3	21
63	Dissociation of water on oxygen-covered Rh{111}. Journal of Chemical Physics, 2009, 131, 214707.	1.2	20
64	Adsorption of CO on the Fe₃O₄(001) Surface. Journal of Physical Chemistry B, 2018, 122, 721-729.	1.2	20
65	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
66	Upgrade of the SPECIES beamline at the MAX IV Laboratory. Journal of Synchrotron Radiation, 2021, 28, 588-601.	1.0	19
67	Electron dynamics within Ru-2,2â€²-bipyridine complexesâ€”an N1s core level excitation study. Chemical Physics, 2002, 285, 167-176.	0.9	18
68	Controlled short-linkage assembly of functional nano-objects. Applied Surface Science, 2014, 300, 22-28.	3.1	18
69	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
70	Bulk and surface charge states ofK3C60. Physical Review B, 2005, 71, .	1.1	17
71	Adsorption of ammonia on multilayer iron phthalocyanine. Journal of Chemical Physics, 2011, 134, 114711.	1.2	17
72	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

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73	Intramolecular vibronic dynamics in molecular solids:C60. Physical Review B, 2005, 72, .	1.1	16
74	In Situ Study of CO Oxidation on HOPGâ€Supported Pt Nanoparticles. ChemPhysChem, 2013, 14, 1553-1557.	1.0	16
75	Coverage-dependent oxidation and reduction of vanadium supported on anatase TiO2(1â€¯0â€¯1). Journal of Catalysis, 2018, 360, 118-126.	3.1	16
76	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
77	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
78	Electron-spectroscopy study ofLiC60:Charge transfer and dimer formation. Physical Review B, 2000, 62, 4253-4256.	1.1	13
79	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
80	How Surface Species Drive Product Distribution during Ammonia Oxidation: An STM and Operando APXPS Study. ACS Catalysis, 2021, 11, 8261-8273.	5.5	13
81	Site-Selective Orbital Interactions in an Ultrathin Iron-Carbene Photosensitizer Film. Journal of Physical Chemistry A, 2020, 124, 1603-1609.	1.1	12
82	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
83	Molecular damage in bi-isonicotinic acid adsorbed on rutile TiO2(110). Surface Science, 2008, 602, 1693-1698.	0.8	10
84	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
85	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
86	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
87	Gas Pulseâ€“X-Ray Probe Ambient Pressure Photoelectron Spectroscopy with Submillisecond Time Resolution. ACS Applied Materials & Interfaces, 2021, 13, 47629-47641.	4.0	9
88	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
89	Beamline-induced chromium structure in carbon K-edge absorption spectra. Nuclear Instruments & Methods in Physics Research B, 2001, 184, 609-614.	0.6	8
90	UHV and Ambient Pressure XPS: Potentials for Mg, MgO, and Mg(OH)2 Surface Analysis. Jom, 2016, 68, 3070-3077.	0.9	8

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91	Insulating surface layer on single crystal K $mathsf{_{3}}mathsf{C}mathsf{_{60}}$. European Physical Journal B, 2004, 41, 435-438.	0.6	6
92	Bulk electronic structure ofK3C60as revealed by soft x-rays. Physical Review B, 2007, 75, .	1.1	6
93	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
94	Oxygen relocation during HfO₂ ALD on InAs. Faraday Discussions, 2022, 236, 71-85.	1.6	6
95	Sonogashira cross-coupling over Au(1â€‰1â€‰1): from UHV to ambient pressure. Journal of Physics Condensed Matter, 2017, 29, 444005.	0.7	5
96	Spin propensity in resonant photoemission of transition metal complexes. Physical Review Research, 2021, 3, .	1.3	5
97	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
98	Time Resolved Ambient Pressure X-ray Photoelectron Spectroscopy. ACS Symposium Series, 0, , 219-248.	0.5	4
99	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
100	Use of astigmatic re-focusing at HP-XPS end-station. Journal of Physics: Conference Series, 2013, 425, 152005.	0.3	1
101	Thin-Film Growth and Oxidation of Surfaces Under Relevant Pressure Conditions. , 2018, , 699-710.		1
102	Resonant X-ray photo-oxidation of light-harvesting iron (II/III) N-heterocyclic carbene complexes. Scientific Reports, 2021, 11, 22144.	1.6	1
103	Adsorption of 3-(triethoxysilyl)propionitrile on a rutile TiO2(110) surface: An x-ray photoelectron spectroscopy study. AIP Conference Proceedings, 2020, , .	0.3	0