

# Jonas Weissenrieder

## List of Publications by Year in descending order

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81  
papers

3,157  
citations

172457

29  
h-index

161849

54  
g-index

86  
all docs

86  
docs citations

86  
times ranked

4031  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inverse single-site Fe <sub>1</sub> (OH)X/Pt(111) model catalyst for preferential oxidation of CO in H <sub>2</sub> . Nano Research, 2022, 15, 709-715.	10.4	9
2	Steps and catalytic reactions: CO oxidation with preadsorbed O on Rh(553). Surface Science, 2022, 715, 121928.	1.9	2
3	Inkjet Printed Disposable High-Rate On-Paper Microsupercapacitors. Advanced Functional Materials, 2022, 32, 2108773.	14.9	36
4	Stabilization of Cu <sub>2</sub> O through Site-Selective Formation of a Co <sub>1</sub> Cu Hybrid Single-Atom Catalyst. Chemistry of Materials, 2022, 34, 2313-2320.	6.7	5
5	Ultrathin Ferrimagnetic GdFeCo Films with Low Damping. Advanced Functional Materials, 2022, 32, .	14.9	11
6	Femtosecond laser driven precessing magnetic gratings. Nanoscale, 2021, 13, 3746-3756.	5.6	9
7	HIPPIE: a new platform for ambient-pressure X-ray photoelectron spectroscopy at the MAX IV Laboratory. Journal of Synchrotron Radiation, 2021, 28, 624-636.	2.4	60
8	Manipulation of Stacking Order in <i>Td</i> -WTe <sub>2</sub> by Ultrafast Optical Excitation. ACS Nano, 2021, 15, 8826-8835.	14.6	17
9	Photoelectron dispersion in metallic and insulating $\text{VO}_2$ thin films. Physical Review Research, 2021, 3, .		
10	Acetic acid conversion to ketene on Cu <sub>2</sub> O(1 0 0): Reaction mechanism deduced from experimental observations and theoretical computations. Journal of Catalysis, 2021, 402, 154-165.	6.2	3
11	Sulfur dioxide interaction with thin iron oxide films on low-index surfaces of iron. Surface Science, 2021, 714, 121935.	1.9	0
12	Kagome-like silicene: A novel exotic form of two-dimensional epitaxial silicon. Applied Surface Science, 2020, 530, 147195.	6.1	18
13	Transient three-dimensional structural dynamics in $\text{VO}_2$ . Physical Review B, 2020, 101, .	3.2	9
14	The Surface Structure of Cu <sub>2</sub> O(100): Nature of Defects. Journal of Physical Chemistry C, 2019, 123, 7696-7704.	3.1	13
15	Adsorption and Decomposition of Ethanol on Cu <sub>2</sub> O(111) and (100). Journal of Physical Chemistry C, 2019, 123, 20384-20392.	3.1	11
16	High-Density Isolated Fe <sub>1</sub> O <sub>3</sub> Sites on a Single-Crystal Cu <sub>2</sub> O(100) Surface. Journal of Physical Chemistry Letters, 2019, 10, 7318-7323.	4.6	8
17	Interaction of Atomic Hydrogen with the Cu <sub>2</sub> O(100) and (111) Surfaces. Journal of Physical Chemistry C, 2019, 123, 22172-22180.	3.1	13
18	Atomically dispersed iron hydroxide anchored on Pt for preferential oxidation of CO in H <sub>2</sub> . Nature, 2019, 565, 631-635.	27.8	423

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19	Initial Fe <sub>3</sub> O <sub>4</sub> (100) Formation on Fe(100). Journal of Physical Chemistry C, 2019, 123, 16317-16325.	3.1	8
20	Structure dependent effect of silicon on the oxidation of Al(111) and Al(100). Surface Science, 2019, 684, 1-11.	1.9	2
21	Redox Properties of Cu <sub>2</sub> O(100) and (111) Surfaces. Journal of Physical Chemistry C, 2018, 122, 28684-28691.	3.1	30
22	The influence of buffer system and biological fluids on the degradation of magnesium. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 1490-1502.	3.4	15
23	Interaction of Sulfur Dioxide and Near-Ambient Pressures of Water Vapor with Cuprous Oxide Surfaces. Journal of Physical Chemistry C, 2017, 121, 24011-24024.	3.1	11
24	Characterization of the protective layer formed on zinc in whole blood. Electrochimica Acta, 2017, 258, 1476-1483.	5.2	24
25	Influence of cathode geometry on electron dynamics in an ultrafast electron microscope. Structural Dynamics, 2017, 4, 054303.	2.3	28
26	Dehydrogenation of methanol on Cu <sub>2</sub> O(100) and (111). Journal of Chemical Physics, 2017, 146, 244702.	3.0	23
27	Influence of strain on the corrosion of magnesium alloys and zinc in physiological environments. Acta Biomaterialia, 2017, 48, 541-550.	8.3	74
28	Low operational current spin Hall nano-oscillators based on NiFe/W bilayers. Applied Physics Letters, 2016, 109, .	3.3	54
29	Oxidation of Fe(110) in oxygen gas at 400 Å°C. Surface Science, 2016, 644, 172-179.	1.9	10
30	Applicability of MOS structures in monitoring catalytic properties, as exemplified for monolayer-iron-oxide-coated porous platinum films. Journal of Catalysis, 2016, 344, 583-590.	6.2	3
31	Reactivity at the Cu <sub>2</sub> O(100):Cuâ€“H <sub>2</sub> O interface: a combined DFT and PES study. Physical Chemistry Chemical Physics, 2016, 18, 30570-30584.	2.8	21
32	Degradation of zinc in saline solutions, plasma, and whole blood. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 1141-1151.	3.4	89
33	The Surface Structure of Cu <sub>2</sub> O(100). Journal of Physical Chemistry C, 2016, 120, 4373-4381.	3.1	46
34	The thickness of native oxides on aluminum alloys and single crystals. Applied Surface Science, 2015, 349, 826-832.	6.1	174
35	A well-ordered surface oxide on Fe(110). Surface Science, 2015, 639, 13-19.	1.9	9
36	Auger recombination in In(Ga)Sb/InAs quantum dots. Applied Physics Letters, 2015, 106, .	3.3	10

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37	Mechanistic Study of CO Titration on Cu <sub>2</sub> O/Cu(111) Surfaces. ChemCatChem, 2014, 6, 2364-2372.	3.7	31
38	Redox-Mediated Reconstruction of Copper during Carbon Monoxide Oxidation. Journal of Physical Chemistry C, 2014, 118, 15902-15909.	3.1	64
39	Reactivity and Mass Transfer of Low-Dimensional Catalysts. Chemical Record, 2014, 14, 857-868.	5.8	4
40	Stabilization of Catalytically Active Cu <sup>+</sup> Surface Sites on Titanium-Copper Mixed-Oxide Films. Angewandte Chemie - International Edition, 2014, 53, 5336-5340.	13.8	51
41	CO Oxidation Over Monolayer Manganese Oxide Films on Pt(111). Catalysis Letters, 2013, 143, 1108-1115.	2.6	22
42	Role of Defects in Surface Chemistry on Cu <sub>2</sub> O(111). Journal of Physical Chemistry C, 2013, 117, 19357-19364.	3.1	52
43	In Situ Imaging of Cu <sub>2</sub> O under Reducing Conditions: Formation of Metallic Fronts by Mass Transfer. Journal of the American Chemical Society, 2013, 135, 16781-16784.	13.7	74
44	Photoluminescence and photoresponse from InSb/InAs-based quantum dot structures. Optics Express, 2012, 20, 21264.	3.4	14
45	Surface concentration dependent structures of iodine on Pd(110). Journal of Chemical Physics, 2012, 137, 204703.	3.0	9
46	Adsorption geometry, molecular interaction, and charge transfer of triphenylamine-based dye on rutile TiO <sub>2</sub> (110). Journal of Chemical Physics, 2010, 133, 224704.	3.0	28
47	Formation of one-dimensional molybdenum oxide on Mo(112). Surface Science, 2008, 602, 3338-3342.	1.9	23
48	Growth of stoichiometric subnanometer silica films. Applied Physics Letters, 2008, 92, .	3.3	23
49	STRUCTURE, THERMAL STABILITY, AND CO ADSORPTION PROPERTIES OF PD NANOPARTICLES SUPPORTED ON AN ULTRA-THIN SiO <sub>2</sub> FILM. Surface Review and Letters, 2007, 14, 927-934.	1.1	7
50	Oxygen adsorption on Mo(112) surface studied by ab initio genetic algorithm and experiment. Journal of Chemical Physics, 2007, 126, 234710.	3.0	37
51	The (111) hexagonal structural transition on Pt(100) studied by high-energy resolution core level photoemission. Journal of Chemical Physics, 2007, 127, 164702.	3.0	12
52	Ice-Assisted Preparation of Silica-Supported Vanadium Oxide Particles. Journal of Physical Chemistry C, 2007, 111, 5337-5344.	3.1	25
53	Formation of an Ordered Ice Layer on a Thin Silica Film. Journal of Physical Chemistry C, 2007, 111, 759-764.	3.1	41
54	Ultrafast Electron Microscopy (UEM): Four-Dimensional Imaging and Diffraction of Nanostructures during Phase Transitions. Nano Letters, 2007, 7, 2552-2558.	9.1	59

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55	On the geometrical and electronic structure of an ultra-thin crystalline silica film grown on Mo(112). Surface Science, 2007, 601, 4849-4861.	1.9	48
56	Four-dimensional ultrafast electron microscopy of phase transitions. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18427-18431.	7.1	107
57	Interplay between theory and experiment in the quest for silica with reduced dimensionality grown on a Mo(112) surface. Chemical Physics Letters, 2006, 424, 115-119.	2.6	27
58	Low temperature CO induced growth of Pd supported on a monolayer silica film. Surface Science, 2006, 600, L153-L157.	1.9	18
59	Formation of one-dimensional crystalline silica on a metal substrate. Surface Science, 2006, 600, L164-L168.	1.9	19
60	Adsorption site, core level shifts and charge transfer on the Pd(111) surface. Surface Science, 2006, 600, 3093-3098.	1.9	9
61	Vanadium oxide surfaces and supported vanadium oxide nanoparticles. Topics in Catalysis, 2006, 38, 117-125.	2.8	80
62	Synthesis and Structure of Ultrathin Aluminosilicate Films. Angewandte Chemie - International Edition, 2006, 45, 7636-7639.	13.8	45
63	Oxygen-induced step bunching and faceting of Rh(553): Experiment and ab initio calculations. Physical Review B, 2006, 74, .	3.2	71
64	Atomic structure of a thin silica film on a Mo(112) substrate: A combined experimental and theoretical study. Physical Review B, 2006, 73, .	3.2	61
65	The surface oxide as a source of oxygen on Rh(111). Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 367-372.	1.7	62
66	One-Dimensional PtO <sub>2</sub> at Pt Steps: Formation and Reaction with CO. Physical Review Letters, 2005, 95, 256102.	7.8	131
67	Chemical reaction and interface formation on InAs(111)Co surfaces. Surface Science, 2005, 574, 181-192.	1.9	6
68	Atomic Structure of a Thin Silica Film on a Mo(112) Substrate: A Two-Dimensional Network of SiO <sub>4</sub> Tetrahedra. Physical Review Letters, 2005, 95, 076103.	7.8	201
69	Experimental Evidence for a Partially Dissociated Water Bilayer on Ru{0001}. Physical Review Letters, 2004, 93, 196102.	7.8	130
70	In Situ Studies of Sulfate Nest Formation on Iron. Journal of the Electrochemical Society, 2004, 151, B497.	2.9	22
71	In Situ Studies of Filiform Corrosion of Iron. Journal of the Electrochemical Society, 2004, 151, B165.	2.9	41
72	Adsorption and bonding of 2-butenal on Sn/Pt surface alloys. Journal of Catalysis, 2003, 215, 245-253.	6.2	29

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73	Oxygen structures on Fe(110). Surface Science, 2003, 527, 163-172.	1.9	42
74	Photoelectron microscopy of filiform corrosion of aluminum. Applied Surface Science, 2003, 218, 155-162.	6.1	11
75	Reactions of iodobenzene on Pd(1 1 1) and Pd(1 1 0). Applied Surface Science, 2003, 212-213, 508-514.	6.1	16
76	Comparison of the early stages of corrosion of copper and iron investigated by in situ TM-AFM. Applied Surface Science, 2002, 193, 245-253.	6.1	24
77	Investigation of the surface phase diagram of Fe( $\alpha$ )-S. Surface Science, 2002, 515, 135-142.	1.9	19
78	Adsorption and bonding of propene and 2-butenal on Pt(1 1 1). Surface Science, 2001, 482-485, 83-89.	1.9	14
79	Oxygen-deficient SnO <sub>2</sub> (110): a STM, LEED and XPS study. Surface Science, 2001, 477, 50-58.	1.9	28
80	Magnetic and magneto-optical properties of TbFeCo/(Pt, Pd) multilayers optimized for short wavelength recording. Journal of Applied Physics, 1999, 85, 5091-5093.	2.5	7
81	Zn-Mg and Zn-Ag Degradation Mechanism Under Biologically Relevant Conditions. Surface Innovations, 0, , 1-41.	2.3	12