Reinhard Denecke

List of Publications by Year
in descending order

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43	1,065	394421	395702
papers	citations	19	33
		h-index	g-index

43	43	43	1033
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Kinetic parameters of CO adsorbed on Pt(111) studied by in situ high resolution x-ray photoelectron spectroscopy. Journal of Chemical Physics, 2002, 117, 10852-10859.	3.0	113
2	Adsorption and desorption of CO on Pt(111): a comprehensive analysis. Surface Science, 2003, 545, 47-69.	1.9	99
3	IN-SITU CORE-LEVEL PHOTOELECTRON SPECTROSCOPY OF ADSORBATES ON SURFACES INVOLVING A MOLECULAR BEAM â€" GENERAL SETUP AND FIRST EXPERIMENTS. Surface Review and Letters, 2002, 09, 797-801.	1.1	92
4	In situ high-resolution XPS studies on adsorption of NO on Pt(111). Surface Science, 2003, 529, 384-396.	1.9	76
5	Activated adsorption of methane on Pt(1â€‰1â€‰1) â€"anin situXPS study. New Journal of Physics, 2005, 7, 107-107.	2.9	67
6	Vibrationally resolved in situ XPS study of activated adsorption of methane on Pt(111). Chemical Physics Letters, 2004, 390, 208-213.	2.6	51
7	A site-selective in situ study of CO adsorption and desorption on Pt(355). Journal of Chemical Physics, 2006, 124, 074712.	3.0	51
8	The dissimilar twins â€" a comparative, site-selective in situ study of CO adsorption and desorption on Pt(322) and Pt(355). Surface Science, 2007, 601, 1108-1117.	1.9	48
9	A detailed analysis of vibrational excitations in x-ray photoelectron spectra of adsorbed small hydrocarbons. Journal of Chemical Physics, 2006, 125, 204706.	3.0	45
10	Characterization of Biogenic Silica Generated by Thermo Chemical Treatment of Rice Husk. Particulate Science and Technology, 2013, 31, 524-532.	2.1	40
11	Influence of Steps on the Adsorption of Methane on Platinum Surfaces. Journal of Physical Chemistry C, 2007, 111, 2177-2184.	3.1	32
12	Sulfur Oxidation on Pt(355): It Is the Steps!. Angewandte Chemie - International Edition, 2009, 48, 9743-9746.	13.8	29
13	SO2 adsorption and thermal evolution on clean and oxygen precovered Pt(111). Chemical Physics Letters, 2010, 494, 188-192.	2.6	26
14	Site selectivity of benzene adsorption on Ni(111) studied by high-resolution x-ray photoelectron spectroscopy. Physical Review B, 2006, 73, .	3.2	25
15	Ethene adsorption and dehydrogenation on clean and oxygen precovered Ni(111) studied by high resolution x-ray photoelectron spectroscopy. Journal of Chemical Physics, 2010, 133, 014706.	3.0	25
16	Improved Tougaard background calculation by introduction of fittable parameters for the inelastic electron scattering crossâ€section in the peak fit of photoelectron spectra with UNIFIT 2011. Surface and Interface Analysis, 2011, 43, 1514-1526.	1.8	25
17	Integrated X-ray photoelectron spectroscopy and DFT characterization of benzene adsorption on Pt(111), Pt(355) and Pt(322) surfaces. Physical Chemistry Chemical Physics, 2013, 15, 20662.	2.8	25
18	Behavior of Metal Impurities on Surface and Bulk of Biogenic Silica from Rice Husk Combustion and the Impact on Ash-Melting Tendency. ACS Sustainable Chemistry and Engineering, 2020, 8, 10369-10379.	6.7	22

#	Article	IF	Citations
19	The adsorption of NO on an oxygen pre-covered Pt(111) surface: in situ high-resolution XPS combined with molecular beam studies. Surface Science, 2003, 547, 410-420.	1.9	19
20	Electrosynthesis of Ni/Al layered double hydroxide and reduced graphene oxide composites for the development of hybrid capacitors. Electrochimica Acta, 2021, 365, 137294.	5.2	19
21	Kinetic isotope effects and reaction intermediates in the decomposition of methyl on flat and stepped platinum (1 1 1) surfaces. Chemical Physics Letters, 2007, 442, 176-181.	2.6	16
22	Epitaxial growth and magnetic properties of ultrathin iron oxide films on BaTiO3(001). Journal of Applied Physics, 2013, 114, .	2.5	16
23	Site blocking and CO/sulfur site exchange processes on stepped Pt surfaces. Journal of Physics Condensed Matter, 2009, 21, 134018.	1.8	14
24	Improved peak-fit procedure for XPS measurements of inhomogeneous samplesâ€"Development of the advanced Tougaard background method. Journal of Electron Spectroscopy and Related Phenomena, 2015, 205, 29-51.	1.7	13
25	Interaction between silver nanowires and CO on a stepped platinum surface. Journal of Chemical Physics, 2009, 131, 064702.	3.0	10
26	Pyridine on flat Pt(111) and stepped Pt(355)â€"An in situ HRXPS investigation of adsorption and thermal evolution. Journal of Chemical Physics, 2016, 144, 014702.	3.0	10
27	Surface potential of BaTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>single crystal near the Curie temperature. Physical Review B, 2011, 83, .	3.2	9
28	Magnetoelastic coupling in epitaxial cobalt ferrite/barium titanate heterostructures. Journal of Magnetism and Magnetic Materials, 2013, 339, 84-88.	2.3	9
29	Elucidating the Role of B-Site Cations toward CO₂ Reduction in Perovskite-Based Solid Oxide Electrolysis Cells. Journal of the Electrochemical Society, 2022, 169, 034532.	2.9	8
30	Detailing the Self-Discharge of a Cathode Based on a Prussian Blue Analogue. Energies, 2020, 13, 4027.	3.1	6
31	Identifying the Thermal Decomposition Mechanism of Guaiacol on Pt(111): An Integrated X-ray Photoelectron Spectroscopy and Density Functional Theory Study. Journal of Physical Chemistry C, 2018, 122, 4261-4273.	3.1	5
32	Ethylene: Its adsorption, reaction, and coking on Pt/h-BN/Rh(111) nanocluster arrays. Journal of Chemical Physics, 2020, 152, 224710.	3.0	5
33	XMCD studies of thin Co films on BaTiO3. Journal of Physics Condensed Matter, 2015, 27, 326001.	1.8	3
34	Electron-Induced Decomposition of Different Silver(I) Complexes: Implications for the Design of Precursors for Focused Electron Beam Induced Deposition. Nanomaterials, 2022, 12, 1687.	4.1	3
35	Energy shifts in photoemission lines during the tetragonal- to cubic-phase transition in BaTiO3 single crystals and systems with CoFe2O4 and NiFe2O4 overlayers. Journal of Physics Condensed Matter, 2018, 30, 205401.	1.8	2
36	Magnetic Anisotropy in Thin Layers of (Mn,Zn)Fe 2 O 4 on SrTiO 3 (001). Physica Status Solidi (B): Basic Research, 2020, 257, 1900627.	1.5	2

#	Article	IF	Citations
37	Preferential growth of perovskite BaTiO₃ thin films on Gd₃Ga₅O₁₂(100) and Y₃Fe₅O₁₂(100) oriented substrates by pulsed laser deposition. Materials Advances, 2022, 3, 4920-4931.	5.4	2
38	Structure and cation distribution of (Mn0.5Zn0.5)Fe2O4 thin films on SrTiO3(001). Journal of Applied Physics, 2017, 121, .	2.5	1
39	Automatic spike correction using UNIFIT 2020. Surface and Interface Analysis, 2019, 51, 1342-1350.	1.8	1
40	Experimental evidence of wide bandgap in triclinic (001)-oriented Sn5O2(PO4)2 thin films on Y2O3 buffered glass substrates. Journal of Materials Chemistry C, 2020, 8, 14203-14207.	5.5	1
41	Solid state surfaces and interfaces. Open Physics, 2009, 7, .	1.7	0
42	Nearest Neighbor Distances in SrTiO 3 and BaTiO 3 from the Projection Analysis of the Extended Xâ€Ray Absorption Fine Structure. Physica Status Solidi (B): Basic Research, 2020, 257, 1900621.	1.5	0
43	Testing and validating the improved estimation of the spectrometerâ€transmission function with UNIFIT 2022. Surface and Interface Analysis, 0, , .	1.8	0