R JÃ¼rgen Behm

List of Publications by Year
in descending order

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641 papers	42,083 citations	1798 103 h-index	4223 174 g-index
660 all docs	660 docs citations	660 times ranked	24627 citing authors

#	Article	IF	Citations
1	Oxygen reduction on a high-surface area Pt/Vulcan carbon catalyst: a thin-film rotating ring-disk electrode study. Journal of Electroanalytical Chemistry, 2001, 495, 134-145.	1.9	1,289
2	Scanning tunneling microscopy observations on the reconstructed Au(111) surface: Atomic structure, long-range superstructure, rotational domains, and surface defects. Physical Review B, 1990, 42, 9307-9318.	1.1	1,218
3	Characterization of Highâ€Surfaceâ€Area Electrocatalysts Using a Rotating Disk Electrode Configuration. Journal of the Electrochemical Society, 1998, 145, 2354-2358.	1.3	1,071
4	Novel mechanism for the formation of chemisorption phases: The (2Ã—1)O-Cu(110) â€˜â€˜added rowâ€™â€™ reconstruction. Physical Review Letters, 1990, 64, 1761-1764.	2.9	497
5	STM investigation of single layer graphite structures produced on Pt(111) by hydrocarbon decomposition. Surface Science, 1992, 264, 261-270.	0.8	494
6	Chemisorption geometry of hydrogen on Ni(111): Order and disorder. Journal of Chemical Physics, 1979, 70, 4168-4184.	1.2	484
7	Kinetics of the Selective CO Oxidation in H2-Rich Gas on Pt/Al2O3. Journal of Catalysis, 1997, 171, 93-105.	3.1	449
8	The Role of Atomic Ensembles in the Reactivity of Bimetallic Electrocatalysts. Science, 2001, 293, 1811-1814.	6.0	439
9	The oxygen reduction reaction on a Pt/carbon fuel cell catalyst in the presence of chloride anions. Journal of Electroanalytical Chemistry, 2001, 508, 41-47.	1.9	425
10	Activation of Molecular Oxygen and the Nature of the Active Oxygen Species for CO Oxidation on Oxide Supported Au Catalysts. Accounts of Chemical Research, 2014, 47, 740-749.	7.6	403
11	Atomic structure of Cu adlayers on Au(100) and Au(111) electrodes observed byin situscanning tunneling microscopy. Physical Review Letters, 1990, 64, 2929-2932.	2.9	396
12	High surface area crystalline titanium dioxide: potential and limits in electrochemical energy storage and catalysis. Chemical Society Reviews, 2012, 41, 5313.	18.7	395
13	Adsorption of hydrogen on Pd(100). Surface Science, 1980, 99, 320-340.	0.8	389
14	Fractal growth of two-dimensional islands: Au on Ru(0001). Physical Review Letters, 1991, 67, 3279-3282.	2.9	375
15	Highly Active and Stable Single-Atom Cu Catalysts Supported by a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2019, 141, 5201-5210.	6.6	361
16	Active Oxygen on a Au/TiO₂ Catalyst: Formation, Stability, and CO Oxidation Activity. Angewandte Chemie - International Edition, 2011, 50, 10241-10245.	7.2	339
17	Kinetics and Mechanism of the Electrooxidation of Formic Acidâ€”Spectroelectrochemical Studies in a Flow Cell. Angewandte Chemie - International Edition, 2006, 45, 981-985.	7.2	338
18	Interaction of oxygen with Al(111) studied by scanning tunneling microscopy. Journal of Chemical Physics, 1993, 99, 2128-2148.	1.2	326

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19	Adsorption of CO on Pd(100). Journal of Chemical Physics, 1980, 73, 2984-2995.	1.2	316
20	Effect of Temperature on Surface Processes at the Pt(111)â˜Liquid Interface:Â Hydrogen Adsorption, Oxide Formation, and CO Oxidation. Journal of Physical Chemistry B, 1999, 103, 8568-8577.	1.2	315
21	Performance Improvement of Magnesium Sulfur Batteries with Modified Nonâ€Nucleophilic Electrolytes. Advanced Energy Materials, 2015, 5, 1401155.	10.2	308
22	Ethanol Electrooxidation on a Carbon-Supported Pt Catalyst:Â Reaction Kinetics and Product Yields. Journal of Physical Chemistry B, 2004, 108, 19413-19424.	1.2	307
23	Evidence for â€˜â€˜subsurfaceâ€™â€™ hydrogen on Pd(110): An intermediate between chemisorbed and dissolved species. Journal of Chemical Physics, 1983, 78, 7486-7490.	1.2	299
24	Surface migration of â€˜â€˜hotâ€™â€™ adatoms in the course of dissociative chemisorption of oxygen on Al(111). Physical Review Letters, 1992, 68, 624-626.	2.9	297
25	Kinetics of the Selective Low-Temperature Oxidation of CO in H2-Rich Gas over Au/Î±-Fe2O3. Journal of Catalysis, 1999, 182, 430-440.	3.1	296
26	Ethanol electro-oxidation on carbon-supported Pt, PtRu and Pt3Sn catalysts: A quantitative DEMS study. Journal of Power Sources, 2006, 154, 351-359.	4.0	296
27	An in-situ scanning tunneling microscopy study of au (111) with atomic scale resolution. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 248, 451-460.	0.3	294
28	Atomic-Resolution Imaging of Close-Packed Metal Surfaces by Scanning Tunneling Microscopy. Physical Review Letters, 1989, 62, 59-62.	2.9	287
29	Surfactant-Induced Layer-by-Layer Growth of Ag on Ag(111): Origins and Side Effects. Physical Review Letters, 1994, 72, 3843-3846.	2.9	284
30	In situ scanning tunnelling microscopy observations of a disorderâ€“order phase transition in hydrogensulfate adlayers on Au(111). Faraday Discussions, 1992, 94, 329-338.	1.6	278
31	Mechanism of the CO-induced1Ã—2â†'1Ã—1structural transformation of Pt(110). Physical Review Letters, 1989, 63, 1086-1089.	2.9	269
32	Bridge-Bonded Formate:â€‰ Active Intermediate or Spectator Species in Formic Acid Oxidation on a Pt Film Electrode?. Langmuir, 2006, 22, 10399-10408.	1.6	264
33	The interaction of CO and Pt(100). I. Mechanism of adsorption and Pt phase transition. Journal of Chemical Physics, 1983, 78, 7437-7447.	1.2	257
34	Performance study of magnesiumâ€“sulfur battery using a graphene based sulfur composite cathode electrode and a non-nucleophilic Mg electrolyte. Nanoscale, 2016, 8, 3296-3306.	2.8	247
35	CO adsorption and oxidation on bimetallic Pt/Ru(0001) surfaces â€“ a combined STM and TPD/TPR study. Surface Science, 1998, 411, 249-262.	0.8	236
36	Title is missing!. Catalysis Letters, 2001, 76, 143-150.	1.4	235

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37	Toward Highly Reversible Magnesiumâ€“Sulfur Batteries with Efficient and Practical Mg[B(hfip)₄]₂ Electrolyte. ACS Energy Letters, 2018, 3, 2005-2013.	8.8	234
38	Kinetics, mechanism, and the influence of H2 on the CO oxidation reaction on a Au/TiO2 catalyst. Journal of Catalysis, 2004, 224, 449-462.	3.1	230
39	Electrocatalytic Activity of PtRu Alloy Colloids for CO and CO/H2 Electrooxidation:â€‰ Stripping Voltammetry and Rotating Disk Measurements. Langmuir, 1997, 13, 2591-2595.	1.6	227
40	PtRu Alloy Colloids as Precursors for Fuel Cell Catalysts: A Combined XPS, AFM, HRTEM, and RDE Study. Journal of the Electrochemical Society, 1998, 145, 925-931.	1.3	226
41	Strain Relaxation in Hexagonally Close-Packed Metal-Metal Interfaces. Physical Review Letters, 1995, 74, 754-757.	2.9	220
42	Reaction Intermediates and Side Products in the Methanation of CO and CO₂ over Supported Ru Catalysts in H₂-Rich Reformate Gases. Journal of Physical Chemistry C, 2011, 115, 1361-1367.	1.5	219
43	Methanol Oxidation on a Carbon-Supported Pt Fuel Cell CatalystA Kinetic and Mechanistic Study by Differential Electrochemical Mass Spectrometry. Journal of Physical Chemistry B, 2001, 105, 10874-10883.	1.2	218
44	New PtRu Alloy Colloids as Precursors for Fuel Cell Catalysts. Journal of Catalysis, 2000, 195, 383-393.	3.1	217
45	Rotating Disk Electrode Measurements on the CO Tolerance of a Highâ€Surface Area Pt/Vulcan Carbon Fuel Cell Catalyst. Journal of the Electrochemical Society, 1999, 146, 1296-1304.	1.3	214
46	Composition and activity of high surface area PtRu catalysts towards adsorbed CO and methanol electrooxidationâ€”. Electrochimica Acta, 2002, 47, 3693-3706.	2.6	211
47	Impact of the electrolyte salt anion on the solid electrolyte interphase formation in sodium ion batteries. Nano Energy, 2019, 55, 327-340.	8.2	209
48	In-situ STM study of the initial stages of corrosion of Cu(100) electrodes in sulfuric and hydrochloric acid solution. Surface Science, 1998, 399, 49-69.	0.8	201
49	Oxygen Reduction on Ru[sub 1.92]Mo[sub 0.08]SeO[sub 4], Ru/Carbon, and Pt/Carbon in Pure and Methanol-Containing Electrolytes. Journal of the Electrochemical Society, 2000, 147, 2620.	1.3	200
50	Ethanol electrooxidation on novel carbon supported Pt/SnOx/C catalysts with varied Pt:Sn ratio. Electrochimica Acta, 2007, 53, 377-389.	2.6	197
51	Methanol electrooxidation on a colloidal PtRu-alloy fuel-cell catalyst. Electrochemistry Communications, 1999, 1, 1-4.	2.3	196
52	Preferential island nucleation at the elbows of the Au(111) herringbone reconstruction through place exchange. Surface Science, 1996, 365, L647-L651.	0.8	193
53	Kinetics and mechanism of the low-temperature waterâ€“gas shift reaction on Au/CeO2 catalysts in an idealized reaction atmosphere. Journal of Catalysis, 2006, 244, 137-152.	3.1	192
54	The interaction of CO and Pt(100). II. Energetic and kinetic parameters. Journal of Chemical Physics, 1983, 78, 7448-7458.	1.2	190

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55	Interaction of hydrogen with a palladium (110) surface. Surface Science, 1983, 126, 382-391.	0.8	187
56	Reactive oxygen on a Au/TiO2 supported catalyst. Journal of Catalysis, 2009, 264, 67-76.	3.1	173
57	Adsorption and oxidation of ethanol on colloid-based Pt/C, PtRu/C and Pt3Sn/C catalysts: In situ FTIR spectroscopy and on-line DEMS studies. Physical Chemistry Chemical Physics, 2007, 9, 2686.	1.3	166
58	Activity of PtRuMeOx (Me = W, Mo or V) catalysts towards methanol oxidation and their characterization. Journal of Power Sources, 2002, 105, 297-304.	4.0	162
59	Title is missing!. Catalysis Letters, 2003, 89, 109-114.	1.4	160
60	In-Depth Interfacial Chemistry and Reactivity Focused Investigation of Lithiumâ€“Imide- and Lithiumâ€“Imidazole-Based Electrolytes. ACS Applied Materials & Interfaces, 2016, 8, 16087-16100.	4.0	159
61	Correlation between CO surface coverage and selectivity/kinetics for the preferential CO oxidation over Pt/Î³-Al2O3 and Au/Î±-Fe2O3: an in-situ DRIFTS study. Journal of Power Sources, 1999, 84, 175-182.	4.0	158
62	Methanol Electrooxidation over Pt/C Fuel Cell Catalysts: Dependence of Product Yields on Catalyst Loading. Langmuir, 2003, 19, 6759-6769.	1.6	158
63	Bimetallic PtSn catalyst for selective CO oxidation in H2-rich gases at low temperatures. Physical Chemistry Chemical Physics, 2001, 3, 1123-1131.	1.3	157
64	Direct observation of surface reactions by scanning tunneling microscopy: Ethyleneâ†'ethylidyneâ†'carbon particlesâ†'graphite on Pt(111). Journal of Chemical Physics, 1992, 97, 6774-6783.	1.2	155
65	Single step transformation of sulphur to Li2S2/Li2S in Li-S batteries. Scientific Reports, 2015, 5, 12146.	1.6	154
66	Comparative study of imide-based Li salts as electrolyte additives for Li-ion batteries. Journal of Power Sources, 2018, 375, 43-52.	4.0	154
67	Phase transitions of a two-dimensional chemisorbed system: H on Fe(110). Surface Science, 1982, 117, 257-266.	0.8	153
68	Ethanol oxidation on novel, carbon supported Pt alloy catalystsâ€"Model studies under defined diffusion conditions. Electrochimica Acta, 2006, 52, 221-233.	2.6	152
69	Support effects in the Au-catalyzed CO oxidation â€“ Correlation between activity, oxygen storage capacity, and support reducibility. Journal of Catalysis, 2010, 276, 292-305.	3.1	148
70	Ethanol, Acetaldehyde and Acetic Acid Adsorption/Electrooxidation on a Pt Thin Film Electrode under Continuous Electrolyte Flow: An in Situ ATR-FTIRS Flow Cell Study. Journal of Physical Chemistry C, 2010, 114, 9850-9864.	1.5	145
71	Step-flow mechanism versus pit corrosion: scanning-tunneling microscopy observations on wet etching of Si(111) by HF solutions. Chemical Physics Letters, 1991, 186, 275-280.	1.2	142
72	Application of In-situ Attenuated Total Reflection-Fourier Transform Infrared Spectroscopy for the Understanding of Complex Reaction Mechanism and Kinetics: Formic Acid Oxidation on a Pt Film Electrode at Elevated Temperatures. Journal of Physical Chemistry B, 2006, 110, 9534-9544.	1.2	141

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73	An in-situ scanning tunneling microscopy study of electrochemically induced â€œhexâ€•â†" (1 Ã— 1) transitions on Au(100) electrodes. Surface Science, 1993, 296, 310-332.	0.8	138
74	Transport effects in the oxygen reduction reaction on nanostructured, planar glassy carbon supported Pt/GC model electrodes. Physical Chemistry Chemical Physics, 2008, 10, 1931.	1.3	136
75	Correlation between domain boundaries and surface steps: A scanning-tunneling-microscopy study on reconstructed Pt(100). Physical Review Letters, 1986, 56, 228-231.	2.9	129
76	CO₂ Hydrogenation to Methanol on Supported Au Catalysts under Moderate Reaction Conditions: Support and Particle Size Effects. ChemSusChem, 2015, 8, 456-465.	3.6	127
77	Activation of a Au/CeO2 catalyst for the CO oxidation reaction by surface oxygen removal/oxygen vacancy formation. Journal of Catalysis, 2007, 251, 437-442.	3.1	125
78	Pectin, Hemicellulose, or Lignin? Impact of the Biowaste Source on the Performance of Hard Carbons for Sodiumâ€Ion Batteries. ChemSusChem, 2017, 10, 2668-2676.	3.6	125
79	Dendrite Growth in Mg Metal Cells Containing Mg(TFSI)₂/Glyme Electrolytes. Journal of the Electrochemical Society, 2018, 165, A1983-A1990.	1.3	124
80	Growth morphology and properties of metals on graphene. Progress in Surface Science, 2015, 90, 397-443.	3.8	123
81	Influence of TiO₂ Bulk Defects on CO Adsorption and CO Oxidation on Au/TiO₂: Electronic Metalâ€“Support Interactions (EMSIs) in Supported Au Catalysts. ACS Catalysis, 2017, 7, 2339-2345.	5.5	120
82	Direct observation of a nucleation and growth process on an atomic scale. Surface Science, 1987, 181, 403-411.	0.8	118
83	Mesoscopic mass transport effects in electrocatalytic processes. Faraday Discussions, 2008, 140, 167-184.	1.6	118
84	The structure of CO adsorbed on Pd(100): A leed and hreels analysis. Surface Science, 1979, 88, L59-L66.	0.8	115
85	Adsorption geometry of hydrogen on Fe(110). Journal of Chemical Physics, 1985, 83, 1959-1968.	1.2	115
86	Homoepitaxial growth on Ni(100) and its modification by a preadsorbed oxygen adlayer. Surface Science, 1993, 284, 154-166.	0.8	114
87	Deactivation of a Au/CeO2 catalyst during the low-temperature waterâ€“gas shift reaction and its reactivation: A combined TEM, XRD, XPS, DRIFTS, and activity study. Journal of Catalysis, 2007, 250, 139-150.	3.1	114
88	Fast kinetics of multivalent intercalation chemistry enabled by solvated magnesium-ions into self-established metallic layered materials. Nature Communications, 2018, 9, 5115.	5.8	114
89	STM observations of the initial stages of copper deposition on gold single-crystal electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 313, 109-119.	0.3	113
90	Selective CO Methanation on Ru/TiO₂ Catalysts: Role and Influence of Metalâ€“Support Interactions. ACS Catalysis, 2015, 5, 6753-6763.	5.5	113

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91	Ethanol electrooxidation on a carbon-supported Pt catalyst at elevated temperature and pressure: A high-temperature/high-pressure DEMS study. Journal of Power Sources, 2009, 190, 2-13.	4.0	112
92	Insights into the reversibility of aluminum graphite batteries. Journal of Materials Chemistry A, 2017, 5, 9682-9690.	5.2	112
93	CuF₂ as Reversible Cathode for Fluoride Ion Batteries. Advanced Functional Materials, 2017, 27, 1701051.	7.8	112
94	A scanning tunneling microscopy investigation of the structure of the Pt(110) and Au(110) surfaces. Surface Science, 1991, 257, 297-306.	0.8	109
95	Influence of CO2 and H2 on the low-temperature waterâ€“gas shift reaction on Au/CeO2 catalysts in idealized and realistic reformate. Journal of Catalysis, 2007, 246, 74-90.	3.1	109
96	The structure of atomic nitrogen adsorbed on Fe(100). Surface Science, 1982, 123, 129-140.	0.8	108
97	Nanomosaic Surfaces by Lateral Phase Separation of a Diblock Copolymer. Macromolecules, 1997, 30, 3874-3880.	2.2	108
98	Superior Lithium Storage Capacity of Î±â€MnS Nanoparticles Embedded in Sâ€Ðoped Carbonaceous Mesoporous Frameworks. Advanced Energy Materials, 2019, 9, 1902077.	10.2	108
99	Summary Abstract: Decomposition of NO on Ag(111) at low temperatures. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1984, 2, 1040-1041.	0.9	107
100	Interface structure and misfit dislocations in thin Cu films on Ru(0001). Physical Review B, 1991, 44, 1442-1445.	1.1	107
101	Activity, stability, and deactivation behavior of supported Au/TiO2 catalysts in the CO oxidation and preferential CO oxidation reaction at elevated temperatures. Journal of Catalysis, 2009, 267, 78-88.	3.1	107
102	In situ ATR-FTIRS coupled with on-line DEMS under controlled mass transport conditionsâ€”A novel tool for electrocatalytic reaction studies. Electrochimica Acta, 2007, 52, 5634-5643.	2.6	106
103	Adlayer geometry and structural effects in the CO/Ni(110) system. Surface Science, 1985, 160, 387-399.	0.8	105
104	Structure determination of an adsorbate-induced multilayer reconstruction: (1Ã—2)-H/Ni(110). Physical Review Letters, 1987, 58, 148-151.	2.9	105
105	An in-situ STM study of potential-induced changes in the surface topography of Au(100) electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 290, 21-31.	0.3	105
106	On the CO tolerance of novel colloidal PdAu/carbon electrocatalysts. Journal of Electroanalytical Chemistry, 2001, 501, 132-140.	1.9	105
107	STM imaging and local order of oxygen adlayers on Ni(100). Surface Science, 1991, 245, 255-262.	0.8	104
108	Activity, selectivity, and adsorbed reaction intermediates/reaction side products in the selective methanation of CO in reformate gases on supported Ru catalysts. Journal of Catalysis, 2010, 269, 255-268.	3.1	104

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109	Kinetic Isotope Effects in Complex Reaction Networks: Formic Acid Electro-Oxidation. ChemPhysChem, 2007, 8, 380-385.	1.0	103
110	ZnO/ZnFe2O4/N-doped C micro-polyhedrons with hierarchical hollow structure as high-performance anodes for lithium-ion batteries. Nano Energy, 2017, 42, 341-352.	8.2	103
111	CO Oxidation on a Au/TiO₂ Nanoparticle Catalyst via the Au-Assisted Marsâ€“van Krevelen Mechanism. ACS Catalysis, 2018, 8, 6513-6525.	5.5	103
112	Reconstruction and subsurface lattice distortions in the (2 Ã— 1)O-Ni(110) structure: A LEED analysis. Surface Science, 1990, 225, 171-183.	0.8	100
113	Nucleation and growth of thin metal films on clean and modified metal substrates studied by scanning tunneling microscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1992, 10, 1970-1980.	0.9	100
114	Toward the Microscopic Identification of Anions and Cations at the Ionic Liquid|Ag(111) Interface: A Combined Experimental and Theoretical Investigation. ACS Nano, 2013, 7, 7773-7784.	7.3	100
115	Development of new anode composite materials for fluoride ion batteries. Journal of Materials Chemistry A, 2014, 2, 20861-20872.	5.2	100
116	Manganese phosphate coated Li[Ni0.6Co0.2Mn0.2]O2 cathode material: Towards superior cycling stability at elevated temperature and high voltage. Journal of Power Sources, 2018, 402, 263-271.	4.0	99
117	Electrooxidation of CO and H2/CO mixtures on a carbon-supported Pt catalystÃ¢â‚¬â€ kinetic and mechanistic study by differential electrochemical mass spectrometry. Physical Chemistry Chemical Physics, 2001, 3, 4650-4660.	1.3	98
118	A Porphyrin Complex as a Selfâ€Conditioned Electrode Material for Highâ€Performance Energy Storage. Angewandte Chemie - International Edition, 2017, 56, 10341-10346.	7.2	94
119	LEED structure analysis of the clean and (2Ã—1)H covered Pd(110) surface. Journal of Chemical Physics, 1987, 87, 6191-6198.	1.2	93
120	Anisotropy in Nucleation and Growth of Two-Dimensional Islands during Homoepitaxy on "Hex" Reconstructed Au(100). Physical Review Letters, 1994, 73, 553-556.	2.9	91
121	Formic Acid Oxidation on Pure and Bi-Modified Pt(111):Â Temperature Effects. Langmuir, 2000, 16, 8159-8166.	1.6	91
122	CO removal from realistic methanol reformate via preferential oxidationâ€”performance of a Rh/MgO catalyst and comparison to Ru/Î³-Al2O3, and Pt/Î³-Al2O3. Applied Catalysis B: Environmental, 2004, 50, 209-218.	10.8	90
123	Atomic motion and mass transport in the oxygen induced reconstructions of Cu(110). Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1991, 9, 902.	1.6	88
124	Initial stages of native oxide growth on hydrogen passivated Si(111) surfaces studied by scanning tunneling microscopy. Applied Physics Letters, 1992, 60, 1307-1309.	1.5	88
125	TAP reactor studies of the oxidizing capability of CO2 on a Au/CeO2 catalyst â€“ A first step toward identifying a redox mechanism in the Reverse Waterâ€“Gas Shift reaction. Journal of Catalysis, 2013, 302, 20-30.	3.1	88
126	In situ scanning tunneling microscopy observations of the potential-dependent (1 Ã— 2) reconstruction on Au(110) in acidic electrolytes. Surface Science, 1993, 289, 139-151.	0.8	87

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127	MnPO₄â€Coated Li(Ni_{0.4}Co_{0.2}Mn_{0.4})O₂ for Lithium(â€Ion) Batteries with Outstanding Cycling Stability and Enhanced Lithiation Kinetics. Advanced Energy Materials, 2018, 8, 1801573.	10.2	87
128	Importance of the additional step-edge barrier in determining film morphology during epitaxial growth. Physical Review B, 1995, 51, 14790-14793.	1.1	86
129	Methanol formation by CO2 hydrogenation on Au/ZnO catalysts â€“ Effect of total pressure and influence of CO on the reaction characteristics. Journal of Catalysis, 2016, 333, 238-250.	3.1	86
130	Electrooxidation of glycerol studied by combined in situ IR spectroscopy and online mass spectrometry under continuous flow conditions. Journal of Electroanalytical Chemistry, 2011, 661, 250-264.	1.9	84
131	Encapsulation of Ru nanoparticles: Modifying the reactivity toward CO and CO2 methanation on highly active Ru/TiO2 catalysts. Applied Catalysis B: Environmental, 2020, 270, 118846.	10.8	84
132	A leed analysis of the (2Ã—1)H-Ni(110) structure. Surface Science, 1987, 186, 45-54.	0.8	82
133	At the ionic liquid|metal interface: structure formation and temperature dependent behavior of an ionic liquid adlayer on Au(111). Physical Chemistry Chemical Physics, 2013, 15, 17295.	1.3	82
134	Corrosion of Alkanethiol-Covered Cu(100) Surfaces in Hydrochloric Acid Solution Studied by in-Situ Scanning Tunneling Microscopy. Langmuir, 1997, 13, 7045-7051.	1.6	81
135	VOCl as a Cathode for Rechargeable Chloride Ion Batteries. Angewandte Chemie - International Edition, 2016, 55, 4285-4290.	7.2	81
136	Morphologyâ€Engineered Highly Active and Stable Ru/TiO₂ Catalysts for Selective CO Methanation. Angewandte Chemie - International Edition, 2019, 58, 10732-10736.	7.2	81
137	Structure and mechanism of alkali-metal-induced reconstruction of fcc (110) surfaces. Physical Review B, 1987, 36, 9267-9270.	1.1	80
138	Interaction of oxygen with Al(111) at elevated temperatures. Journal of Chemical Physics, 1998, 108, 1740-1747.	1.2	80
139	A STM investigation of the nucleation and growth of thin Cu and Au films on Ru(0001). Surface Science, 1991, 251-252, 592-596.	0.8	79
140	Kinetic study of selective CO oxidation in H2-rich gas on a Ru/Î³-Al2O3 catalyst. Physical Chemistry Chemical Physics, 2002, 4, 389-397.	1.3	79
141	Surface Formates as Side Products in the Selective CO Oxidation on Pt/Î³-Al2O3. Journal of Catalysis, 1997, 172, 256-258.	3.1	78
142	Formic Acid Electrooxidation on Nobleâ€Metal Electrodes: Role and Mechanistic Implications of pH, Surface Structure, and Anion Adsorption. ChemElectroChem, 2014, 1, 1075-1083.	1.7	77
143	The role of electronic metal-support interactions and its temperature dependence: CO adsorption and CO oxidation on Au/TiO2 catalysts in the presence of TiO2 bulk defects. Journal of Catalysis, 2017, 354, 46-60.	3.1	77
144	Effect of Layer-Dependent Adatom Mobilities in Heteroepitaxial Metal Film Growth: Ni/Ru(0001). Physical Review Letters, 1995, 74, 3864-3867.	2.9	76

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145	CO2 reduction on Pt electrocatalysts and its impact on H2 oxidation in CO2 containing fuel cell feed gas â€“ A combined in situ infrared spectroscopy, mass spectrometry and fuel cell performance study. Electrochimica Acta, 2005, 50, 5189-5199.	2.6	76
146	Concentration and Coverage Dependent Adlayer Structures: From Two-Dimensional Networks to Rotation in a Bearing. Journal of Physical Chemistry C, 2010, 114, 1268-1277.	1.5	76
147	Model study on the stability of carbon support materials under polymer electrolyte fuel cell cathode operation conditions. Journal of Power Sources, 2009, 190, 14-24.	4.0	75
148	Selenium and selenium-sulfur cathode materials for high-energy rechargeable magnesium batteries. Journal of Power Sources, 2016, 323, 213-219.	4.0	75
149	Mechanism of an adsorbate-induced surface phase transformation: CO on Pt(100). Surface Science, 1982, 121, L553-L560.	0.8	74
150	Effect of trace amounts of Clâ¯ in Cu underpotential deposition on Au(111) in perchlorate solutions: an in-situ scanning tunneling microscopy study. Surface Science, 1995, 335, 129-144.	0.8	74
151	Benzotriazole Adsorption and Inhibition of Cu(100) Corrosion in HCl:â€‰ A Combined in Situ STM and in Situ FTIR Spectroscopy Study. Journal of Physical Chemistry B, 1998, 102, 5859-5865.	1.2	74
152	In Situ X-ray Scattering Study of the Passive Film on Ni(111) in Sulfuric Acid Solution. Journal of Physical Chemistry B, 2000, 104, 1222-1226.	1.2	74
153	Inâ€…Situ Coating of Li[Ni_{0.33}Mn_{0.33}Co_{0.33}]O₂ Particles to Enable Aqueous Electrode Processing. ChemSusChem, 2016, 9, 1112-1117.	3.6	74
154	Active Au Species During the Low-Temperature Water Gas Shift Reaction on Au/CeO₂: A Time-Resolved Operando XAS and DRIFTS Study. ACS Catalysis, 2017, 7, 6471-6484.	5.5	74
155	Adsorbate-induced step faceting of Cu(100) electrodes in HCl. Surface Science, 1996, 367, L33-L41.	0.8	73
156	The underlayer influence on photoemission and thermal desorption of xenon adsorbed on Ag(111). Journal of Chemical Physics, 1986, 85, 1061-1073.	1.2	72
157	In Situ STM Study of (100) Cu Electrodes in Sulfuric Acid Solution in the Presence of Benzotriazole: Adsorption, Cu Corrosion, and Cu Deposition. Journal of the Electrochemical Society, 1997, 144, L113-L116.	1.3	72
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