

# R Jürgen Behm

## List of Publications by Citations

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636  
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660  
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#	Paper	IF	Citations
636	Oxygen reduction on a high-surface area Pt/Vulcan carbon catalyst: a thin-film rotating ring-disk electrode study. <i>Journal of Electroanalytical Chemistry</i> , <b>2001</b> , 495, 134-145	4.1	1157
635	Scanning tunneling microscopy observations on the reconstructed Au(111) surface: Atomic structure, long-range superstructure, rotational domains, and surface defects. <i>Physical Review B</i> , <b>1990</b> , 42, 9307-9318	3.3	1119
634	Characterization of High-Surface-Area Electrocatalysts Using a Rotating Disk Electrode Configuration. <i>Journal of the Electrochemical Society</i> , <b>1998</b> , 145, 2354-2358	3.9	957
633	Novel mechanism for the formation of chemisorption phases: The (2 x 1)O-Cu(110) "added row" reconstruction. <i>Physical Review Letters</i> , <b>1990</b> , 64, 1761-1764	7.4	460
632	Chemisorption geometry of hydrogen on Ni(111): Order and disorder. <i>Journal of Chemical Physics</i> , <b>1979</b> , 70, 4168-4184	3.9	453
631	STM investigation of single layer graphite structures produced on Pt(111) by hydrocarbon decomposition. <i>Surface Science</i> , <b>1992</b> , 264, 261-270	1.8	441
630	The role of atomic ensembles in the reactivity of bimetallic electrocatalysts. <i>Science</i> , <b>2001</b> , 293, 1811-4	33.3	400
629	Kinetics of the Selective CO Oxidation in H <sub>2</sub> -Rich Gas on Pt/Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Catalysis</i> , <b>1997</b> , 171, 93-105	5.3	389
628	The oxygen reduction reaction on a Pt/carbon fuel cell catalyst in the presence of chloride anions. <i>Journal of Electroanalytical Chemistry</i> , <b>2001</b> , 508, 41-47	4.1	365
627	High surface area crystalline titanium dioxide: potential and limits in electrochemical energy storage and catalysis. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 5313-60	58.5	361
626	Fractal growth of two-dimensional islands: Au on Ru(0001). <i>Physical Review Letters</i> , <b>1991</b> , 67, 3279-3282	7.4	352
625	Atomic structure of Cu adlayers on Au(100) and Au(111) electrodes observed by in situ scanning tunneling microscopy. <i>Physical Review Letters</i> , <b>1990</b> , 64, 2929-2932	7.4	348
624	Activation of molecular oxygen and the nature of the active oxygen species for CO oxidation on oxide supported Au catalysts. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 740-9	24.3	344
623	Adsorption of hydrogen on Pd(100). <i>Surface Science</i> , <b>1980</b> , 99, 320-340	1.8	343
622	Kinetics and mechanism of the electrooxidation of formic acid--spectroelectrochemical studies in a flow cell. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 981-5	16.4	307
621	Active oxygen on a Au/TiO <sub>2</sub> catalyst: formation, stability, and CO oxidation activity. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 10241-5	16.4	304
620	Interaction of oxygen with Al(111) studied by scanning tunneling microscopy. <i>Journal of Chemical Physics</i> , <b>1993</b> , 99, 2128-2148	3.9	299

619	Adsorption of CO on Pd(100). <i>Journal of Chemical Physics</i> , <b>1980</b> , 73, 2984-2995	3.9	295
618	Evidence for subsurface hydrogen on Pd(110): An intermediate between chemisorbed and dissolved species. <i>Journal of Chemical Physics</i> , <b>1983</b> , 78, 7486-7490	3.9	280
617	Effect of Temperature on Surface Processes at the Pt(111) Liquid Interface: Hydrogen Adsorption, Oxide Formation, and CO Oxidation. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 8568-8577	3.4	276
616	Surfactant-induced layer-by-layer growth of Ag on Ag(111): Origins and side effects. <i>Physical Review Letters</i> , <b>1994</b> , 72, 3843-3846	7.4	275
615	Surface migration of "hot" adatoms in the course of dissociative chemisorption of oxygen on Al(111). <i>Physical Review Letters</i> , <b>1992</b> , 68, 624-626	7.4	275
614	Ethanol Electrooxidation on a Carbon-Supported Pt Catalyst: Reaction Kinetics and Product Yields. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 19413-19424	3.4	274
613	Ethanol electro-oxidation on carbon-supported Pt, PtRu and Pt3Sn catalysts: A quantitative DEMS study. <i>Journal of Power Sources</i> , <b>2006</b> , 154, 351-359	8.9	266
612	Kinetics of the Selective Low-Temperature Oxidation of CO in H <sub>2</sub> -Rich Gas over Au/Fe <sub>2</sub> O <sub>3</sub> . <i>Journal of Catalysis</i> , <b>1999</b> , 182, 430-440	7.3	251
611	Mechanism of the CO-induced 1 x 2 → 1 x 1 structural transformation of Pt(110). <i>Physical Review Letters</i> , <b>1989</b> , 63, 1086-1089	7.4	249
610	In situ scanning tunnelling microscopy observations of a disorder-order phase transition in hydrogensulfate adlayers on Au(111). <i>Faraday Discussions</i> , <b>1992</b> , 94, 329-338	3.6	247
609	Bridge-bonded formate: active intermediate or spectator species in formic acid oxidation on a Pt film electrode?. <i>Langmuir</i> , <b>2006</b> , 22, 10399-408	4	243
608	Performance Improvement of Magnesium Sulfur Batteries with Modified Non-Nucleophilic Electrolytes. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401155	21.8	241
607	The interaction of CO and Pt(100). I. Mechanism of adsorption and Pt phase transition. <i>Journal of Chemical Physics</i> , <b>1983</b> , 78, 7437-7447	3.9	235
606	An in-situ scanning tunneling microscopy study of au (111) with atomic scale resolution. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , <b>1988</b> , 248, 451-460		232
605	Atomic-resolution imaging of close-packed metal surfaces by scanning tunneling microscopy. <i>Physical Review Letters</i> , <b>1989</b> , 62, 59-62	7.4	230
604	Highly Active and Stable Single-Atom Cu Catalysts Supported by a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 5201-5210	16.4	219
603	CO adsorption and oxidation on bimetallic Pt/Ru(0001) surfaces: a combined STM and TPD/TPR study. <i>Surface Science</i> , <b>1998</b> , 411, 249-262	1.8	213
602	Strain Relaxation in Hexagonally Close-Packed Metal-Metal Interfaces. <i>Physical Review Letters</i> , <b>1995</b> , 74, 754-757	7.4	212

601	Methanol Oxidation on a Carbon-Supported Pt Fuel Cell Catalyst A Kinetic and Mechanistic Study by Differential Electrochemical Mass Spectrometry. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 10874-10883 <sup>3,4</sup>	2.00	200
600	Activity, Selectivity, and Long-Term Stability of Different Metal Oxide Supported Gold Catalysts for the Preferential CO Oxidation in H <sub>2</sub> -Rich Gas. <i>Catalysis Letters</i> , <b>2001</b> , 76, 143-150	2.8	199
599	Electrocatalytic Activity of PtRu Alloy Colloids for CO and CO/H <sub>2</sub> Electrooxidation: Stripping Voltammetry and Rotating Disk Measurements. <i>Langmuir</i> , <b>1997</b> , 13, 2591-2595	4	196
598	PtRu Alloy Colloids as Precursors for Fuel Cell Catalysts: A Combined XPS, AFM, HRTEM, and RDE Study. <i>Journal of the Electrochemical Society</i> , <b>1998</b> , 145, 925-931	3.9	196
597	Kinetics, mechanism, and the influence of H <sub>2</sub> on the CO oxidation reaction on a Au/TiO <sub>2</sub> catalyst. <i>Journal of Catalysis</i> , <b>2004</b> , 224, 449-462	7.3	194
596	Composition and activity of high surface area PtRu catalysts towards adsorbed CO and methanol electrooxidation. <i>Electrochimica Acta</i> , <b>2002</b> , 47, 3693-3706	6.7	193
595	New PtRu Alloy Colloids as Precursors for Fuel Cell Catalysts. <i>Journal of Catalysis</i> , <b>2000</b> , 195, 383-393	7.3	191
594	Rotating Disk Electrode Measurements on the CO Tolerance of a High-Surface Area Pt/Vulcan Carbon Fuel Cell Catalyst. <i>Journal of the Electrochemical Society</i> , <b>1999</b> , 146, 1296-1304	3.9	191
593	Performance study of magnesium-sulfur battery using a graphene based sulfur composite cathode electrode and a non-nucleophilic Mg electrolyte. <i>Nanoscale</i> , <b>2016</b> , 8, 3296-306	7.7	190
592	In-situ STM study of the initial stages of corrosion of Cu(100) electrodes in sulfuric and hydrochloric acid solution. <i>Surface Science</i> , <b>1998</b> , 399, 49-69	1.8	184
591	Preferential island nucleation at the elbows of the Au(111) herringbone reconstruction through place exchange. <i>Surface Science</i> , <b>1996</b> , 365, L647-L651	1.8	180
590	Oxygen Reduction on Ru <sub>[sub 1.92]</sub> Mo <sub>[sub 0.08]</sub> SeO <sub>[sub 4]</sub> , Ru/Carbon, and Pt/Carbon in Pure and Methanol-Containing Electrolytes. <i>Journal of the Electrochemical Society</i> , <b>2000</b> , 147, 2620	3.9	178
589	Reaction Intermediates and Side Products in the Methanation of CO and CO <sub>2</sub> over Supported Ru Catalysts in H <sub>2</sub> -Rich Reformate Gases. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 1361-1367	3.8	176
588	Ethanol electrooxidation on novel carbon supported Pt/SnO <sub>x</sub> /C catalysts with varied Pt:Sn ratio. <i>Electrochimica Acta</i> , <b>2007</b> , 53, 377-389	6.7	174
587	The interaction of CO and Pt(100). II. Energetic and kinetic parameters. <i>Journal of Chemical Physics</i> , <b>1983</b> , 78, 7448-7458	3.9	174
586	Methanol electrooxidation on a colloidal PtRu-alloy fuel-cell catalyst. <i>Electrochemistry Communications</i> , <b>1999</b> , 1, 1-4	5.1	172
585	Interaction of hydrogen with a palladium (110) surface. <i>Surface Science</i> , <b>1983</b> , 126, 382-391	1.8	167
584	Reactive oxygen on a Au/TiO <sub>2</sub> supported catalyst. <i>Journal of Catalysis</i> , <b>2009</b> , 264, 67-76	7.3	160

583	Kinetics and mechanism of the low-temperature water-gas shift reaction on Au/CeO <sub>2</sub> catalysts in an idealized reaction atmosphere. <i>Journal of Catalysis</i> , <b>2006</b> , 244, 137-152	7.3	158
582	Toward Highly Reversible Magnesium-Sulfur Batteries with Efficient and Practical Mg[B(hfp) <sub>4</sub> ] <sub>2</sub> Electrolyte. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2005-2013	20.1	149
581	Activity of PtRuMeOx (Me = W, Mo or V) catalysts towards methanol oxidation and their characterization. <i>Journal of Power Sources</i> , <b>2002</b> , 105, 297-304	8.9	149
580	Adsorption and oxidation of ethanol on colloid-based Pt/C, PtRu/C and Pt <sub>3</sub> Sn/C catalysts: in situ FTIR spectroscopy and on-line DEMS studies. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 2686-96	3.6	146
579	Bimetallic PtSn catalyst for selective CO oxidation in H <sub>2</sub> -rich gases at low temperatures. <i>Physical Chemistry Chemical Physics</i> , <b>2001</b> , 3, 1123-1131	3.6	145
578	Methanol Electrooxidation over Pt/C Fuel Cell Catalysts: Dependence of Product Yields on Catalyst Loading. <i>Langmuir</i> , <b>2003</b> , 19, 6759-6769	4	144
577	Phase transitions of a two-dimensional chemisorbed system: H on Fe(110). <i>Surface Science</i> , <b>1982</b> , 117, 257-266	1.8	142
576	Direct observation of surface reactions by scanning tunneling microscopy: Ethylene->ethynidyne->carbon particles->graphite on Pt(111). <i>Journal of Chemical Physics</i> , <b>1992</b> , 97, 6774-6783	2.9	140
575	Support effects in the Au-catalyzed CO oxidation [Correlation between activity, oxygen storage capacity, and support reducibility. <i>Journal of Catalysis</i> , <b>2010</b> , 276, 292-305	7.3	137
574	Highly Active Au/TiO <sub>2</sub> Catalysts for Low-Temperature CO Oxidation: Preparation, Conditioning and Stability. <i>Catalysis Letters</i> , <b>2003</b> , 89, 109-114	2.8	135
573	Ethanol oxidation on novel, carbon supported Pt alloy catalysts [Model studies under defined diffusion conditions. <i>Electrochimica Acta</i> , <b>2006</b> , 52, 221-233	6.7	134
572	Step-flow mechanism versus pit corrosion: scanning-tunneling microscopy observations on wet etching of Si(111) by HF solutions. <i>Chemical Physics Letters</i> , <b>1991</b> , 186, 275-280	2.5	130
571	Transport effects in the oxygen reduction reaction on nanostructured, planar glassy carbon supported Pt/GC model electrodes. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 1931-43	3.6	129
570	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. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 9534-44	3.4	129
569	Correlation between CO surface coverage and selectivity/kinetics for the preferential CO oxidation over Pt/Al <sub>2</sub> O <sub>3</sub> and Au/Fe <sub>2</sub> O <sub>3</sub> : an in-situ DRIFTS study. <i>Journal of Power Sources</i> , <b>1999</b> , 84, 175-182	8.9	128
568	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. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 9850-9864	3.8	126
567	Single step transformation of sulphur to Li <sub>2</sub> S <sub>2</sub> /Li <sub>2</sub> S in Li-S batteries. <i>Scientific Reports</i> , <b>2015</b> , 5, 12146	4.9	125
566	An in-situ scanning tunneling microscopy study of electrochemically induced flex->(111) transitions on Au(100) electrodes. <i>Surface Science</i> , <b>1993</b> , 296, 310-332	1.8	123

565	Correlation between domain boundaries and surface steps: A scanning-tunneling-microscopy study on reconstructed Pt(100). <i>Physical Review Letters</i> , <b>1986</b> , 56, 228-231	7.4	120
564	Impact of the electrolyte salt anion on the solid electrolyte interphase formation in sodium ion batteries. <i>Nano Energy</i> , <b>2019</b> , 55, 327-340	17.1	114
563	Activation of a Au/CeO <sub>2</sub> catalyst for the CO oxidation reaction by surface oxygen removal/oxygen vacancy formation. <i>Journal of Catalysis</i> , <b>2007</b> , 251, 437-442	7.3	113
562	In-Depth Interfacial Chemistry and Reactivity Focused Investigation of Lithium-Imide- and Lithium-Imidazole-Based Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 16087-100	9.5	111
561	Adsorption geometry of hydrogen on Fe(110). <i>Journal of Chemical Physics</i> , <b>1985</b> , 83, 1959-1968	3.9	111
560	The structure of CO adsorbed on Pd(100): A leed and hreels analysis. <i>Surface Science</i> , <b>1979</b> , 88, L59-L66	1.8	111
559	Mesoscopic mass transport effects in electrocatalytic processes. <i>Faraday Discussions</i> , <b>2008</b> , 140, 167-84; discussion 185-207	3.6	110
558	Homoepitaxial growth on Ni(100) and its modification by a preadsorbed oxygen adlayer. <i>Surface Science</i> , <b>1993</b> , 284, 154-166	1.8	109
557	Direct observation of a nucleation and growth process on an atomic scale. <i>Surface Science</i> , <b>1987</b> , 181, 403-411	1.8	107
556	A scanning tunneling microscopy investigation of the structure of the Pt(110) and Au(110) surfaces. <i>Surface Science</i> , <b>1991</b> , 257, 297-306	1.8	106
555	Summary Abstract: Decomposition of NO on Ag(111) at low temperatures. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1984</b> , 2, 1040-1041	2.9	104
554	The structure of atomic nitrogen adsorbed on Fe(100). <i>Surface Science</i> , <b>1982</b> , 123, 129-140	1.8	104
553	Interface structure and misfit dislocations in thin Cu films on Ru(0001). <i>Physical Review B</i> , <b>1991</b> , 44, 14423-1445	3.4	103
552	Nanomosaic Surfaces by Lateral Phase Separation of a Diblock Copolymer. <i>Macromolecules</i> , <b>1997</b> , 30, 3874-3880	5.5	102
551	Structure determination of an adsorbate-induced multilayer reconstruction: (1 x 2)-H/Ni(110). <i>Physical Review Letters</i> , <b>1987</b> , 58, 148-151	7.4	101
550	Adlayer geometry and structural effects in the CO/Ni(110) system. <i>Surface Science</i> , <b>1985</b> , 160, 387-399	1.8	101
549	Activity, stability, and deactivation behavior of supported Au/TiO <sub>2</sub> catalysts in the CO oxidation and preferential CO oxidation reaction at elevated temperatures. <i>Journal of Catalysis</i> , <b>2009</b> , 267, 78-88	7.3	100
548	Ethanol electrooxidation on a carbon-supported Pt catalyst at elevated temperature and pressure: A high-temperature/high-pressure DEMS study. <i>Journal of Power Sources</i> , <b>2009</b> , 190, 2-13	8.9	100



547	CO <sub>2</sub> hydrogenation to methanol on supported Au catalysts under moderate reaction conditions: support and particle size effects. <i>ChemSusChem</i> , <b>2015</b> , 8, 456-65	8.3	99
546	Deactivation of a Au/CeO <sub>2</sub> catalyst during the low-temperature water-gas shift reaction and its reactivation: A combined TEM, XRD, XPS, DRIFTS, and activity study. <i>Journal of Catalysis</i> , <b>2007</b> , 250, 139-150	7.3	98
545	STM imaging and local order of oxygen adlayers on Ni(100). <i>Surface Science</i> , <b>1991</b> , 245, 255-262	1.8	98
544	Pectin, Hemicellulose, or Lignin? Impact of the Biowaste Source on the Performance of Hard Carbons for Sodium-Ion Batteries. <i>ChemSusChem</i> , <b>2017</b> , 10, 2668-2676	8.3	97
543	Growth morphology and properties of metals on graphene. <i>Progress in Surface Science</i> , <b>2015</b> , 90, 397-443	3.6	97
542	In situ ATR-FTIRS coupled with on-line DEMS under controlled mass transport conditions: A novel tool for electrocatalytic reaction studies. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 5634-5643	6.7	95
541	STM observations of the initial stages of copper deposition on gold single-crystal electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , <b>1991</b> , 313, 109-119		95
540	Influence of TiO <sub>2</sub> Bulk Defects on CO Adsorption and CO Oxidation on Au/TiO <sub>2</sub> : Electronic Metal-Support Interactions (EMSI) in Supported Au Catalysts. <i>ACS Catalysis</i> , <b>2017</b> , 7, 2339-2345	13.1	94
539	Influence of CO <sub>2</sub> and H <sub>2</sub> on the low-temperature water-gas shift reaction on Au/CeO <sub>2</sub> catalysts in idealized and realistic reformat. <i>Journal of Catalysis</i> , <b>2007</b> , 246, 74-90	7.3	93
538	On the CO tolerance of novel colloidal PdAu/carbon electrocatalysts. <i>Journal of Electroanalytical Chemistry</i> , <b>2001</b> , 501, 132-140	4.1	93
537	Activity, selectivity, and adsorbed reaction intermediates/reaction side products in the selective methanation of CO in reformat gases on supported Ru catalysts. <i>Journal of Catalysis</i> , <b>2010</b> , 269, 255-268	7.3	92
536	Electrooxidation of CO and H <sub>2</sub> /CO mixtures on a carbon-supported Pt catalyst: kinetic and mechanistic study by differential electrochemical mass spectrometry. <i>Physical Chemistry Chemical Physics</i> , <b>2001</b> , 3, 4650-4660	3.6	92
535	An in-situ STM study of potential-induced changes in the surface topography of Au(100) electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , <b>1990</b> , 290, 21-31		92
534	Kinetic isotope effects in complex reaction networks: formic acid electro-oxidation. <i>ChemPhysChem</i> , <b>2007</b> , 8, 380-5	3.2	91
533	Nucleation and growth of thin metal films on clean and modified metal substrates studied by scanning tunneling microscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1992</b> , 10, 1970-1980	2.9	90
532	Reconstruction and subsurface lattice distortions in the (2 × 1)-O-Ni(110) structure: A LEED analysis. <i>Surface Science</i> , <b>1990</b> , 225, 171-183	1.8	90
531	Comparative study of imide-based Li salts as electrolyte additives for Li-ion batteries. <i>Journal of Power Sources</i> , <b>2018</b> , 375, 43-52	8.9	90
530	Anisotropy in nucleation and growth of two-dimensional islands during homoepitaxy on "hex" reconstructed Au(100). <i>Physical Review Letters</i> , <b>1994</b> , 73, 553-556	7.4	89

529	Selective CO Methanation on Ru/TiO <sub>2</sub> Catalysts: Role and Influence of Metal-Support Interactions. <i>ACS Catalysis</i> , <b>2015</b> , 5, 6753-6763	13.1	88
528	Formic Acid Oxidation on Pure and Bi-Modified Pt(111): Temperature Effects. <i>Langmuir</i> , <b>2000</b> , 16, 8159-8166	16.6	85
527	LEED structure analysis of the clean and (2 $\times$ 1)H covered Pd(110) surface. <i>Journal of Chemical Physics</i> , <b>1987</b> , 87, 6191-6198	3.9	85
526	Insights into the reversibility of aluminum graphite batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 9682-9690	13	84
525	Toward the microscopic identification of anions and cations at the ionic liquid Ag(111) interface: a combined experimental and theoretical investigation. <i>ACS Nano</i> , <b>2013</b> , 7, 7773-84	16.7	84
524	Importance of the additional step-edge barrier in determining film morphology during epitaxial growth. <i>Physical Review B</i> , <b>1995</b> , 51, 14790-14793	3.3	84
523	Atomic motion and mass transport in the oxygen induced reconstructions of Cu(110). <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>1991</b> , 9, 902		84
522	CuF <sub>2</sub> as Reversible Cathode for Fluoride Ion Batteries. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701051	15.6	81
521	Initial stages of native oxide growth on hydrogen passivated Si(111) surfaces studied by scanning tunneling microscopy. <i>Applied Physics Letters</i> , <b>1992</b> , 60, 1307-1309	3.4	81
520	CO removal from realistic methanol reformat via preferential oxidation: performance of a Rh/MgO catalyst and comparison to Ru/Al <sub>2</sub> O <sub>3</sub> , and Pt/Al <sub>2</sub> O <sub>3</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2004</b> , 50, 209-218	21.8	80
519	A leed analysis of the (2 $\times$ 1)H-Ni(110) structure. <i>Surface Science</i> , <b>1987</b> , 186, 45-54	1.8	80
518	Development of new anode composite materials for fluoride ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 20861-20872	13	77
517	Corrosion of Alkanethiol-Covered Cu(100) Surfaces in Hydrochloric Acid Solution Studied by in-Situ Scanning Tunneling Microscopy. <i>Langmuir</i> , <b>1997</b> , 13, 7045-7051	4	77
516	In situ scanning tunneling microscopy observations of the potential-dependent (1 $\times$ 1) reconstruction on Au(110) in acidic electrolytes. <i>Surface Science</i> , <b>1993</b> , 289, 139-151	1.8	76
515	A STM investigation of the nucleation and growth of thin Cu and Au films on Ru(0001). <i>Surface Science</i> , <b>1991</b> , 251-252, 592-596	1.8	76
514	Electrooxidation of glycerol studied by combined in situ IR spectroscopy and online mass spectrometry under continuous flow conditions. <i>Journal of Electroanalytical Chemistry</i> , <b>2011</b> , 661, 250-264	4.1	75
513	Interaction of oxygen with Al(111) at elevated temperatures. <i>Journal of Chemical Physics</i> , <b>1998</b> , 108, 1740-1747	3.9	75
512	Structure and mechanism of alkali-metal-induced reconstruction of fcc (110) surfaces. <i>Physical Review B</i> , <b>1987</b> , 36, 9267-9270	3.3	75



511	Concentration and Coverage Dependent Adlayer Structures: From Two-Dimensional Networks to Rotation in a Bearing. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 1268-1277	3.8	74
510	Kinetic study of selective CO oxidation in H <sub>2</sub> -rich gas on a Ru/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Physical Chemistry Chemical Physics</i> , <b>2002</b> , 4, 389-397	3.6	74
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508	At the ionic liquid metal interface: structure formation and temperature dependent behavior of an ionic liquid adlayer on Au(111). <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 17295-302	3.6	72
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