Herbert Over

List of Publications by Year
in descending order

198 papers	10,760 citations	25014 57 h-index	38368 95 g-index
204 all docs	204 docs citations	204 times ranked	7092 citing authors

#	Article	IF	Citations
1	Evidence of a Tetrahedrally Coordinated RuO₄ Surface Complex on RuO₂(100): Density Functional Theory and Beyond. Journal of Physical Chemistry C, 2022, 126, 946-956.	1.5	4
2	Supported Ru_xIr_{1â€x}O₂ Mixed Oxides Catalysts for Propane Combustion: Resistance Against Water Poisoning. ChemCatChem, 2022, 14, .	1.8	3
3	A combined rotating disk electrodeâ€“surface x-ray diffraction setup for surface structure characterization in electrocatalysis. Review of Scientific Instruments, 2022, 93, .	0.6	2
4	Fundamental Studies of Planar Single-Crystalline Oxide Model Electrodes (RuO₂,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	5.5	128
5	Mixed Ru_{<i>x</i>}Ir_{1âˆ’<i>x</i>}O₂ Supported on Rutile TiO₂: Catalytic Methane Combustion, a Model Study. ChemCatChem, 2021, 13, 3983-3994.	1.8	17
6	Operando Stability Studies of Ultrathin Single-Crystalline IrO₂(110) Films under Acidic Oxygen Evolution Reaction Conditions. ACS Catalysis, 2021, 11, 12651-12660.	5.5	17
7	Comparison study of the effect of CeO₂-based carrier materials on the total oxidation of CO, methane, and propane over RuO₂. Catalysis Science and Technology, 2021, 11, 6839-6853.	2.1	6
8	Visualizing Potentialâ€Induced Pitting Corrosion of Ultrathin Singleâ€Crystalline IrO₂(110) Films on RuO₂(110)/Ru(0001) under Electrochemical Water Splitting Conditions. ChemCatChem, 2020, 12, 855-866.	1.8	22
9	<i>In situ</i> studies of the cathodic stability of single-crystalline IrO₂(110) ultrathin films supported on RuO₂(110)/Ru(0001) in an acidic environment. Physical Chemistry Chemical Physics, 2020, 22, 22956-22962.	1.3	2
10	sReactivation of CeO 2 â€based Catalysts in the HCl Oxidation Reaction: In situ Quantification of the Degree of Chlorination and Kinetic Modeling. ChemCatChem, 2020, 12, 5511-5522.	1.8	8
11	Impact of Aliovalent/Isovalent Ions (Gd, Zr, Pr, and Tb) on the Catalytic Stability of Mesoporous Ceria in the HCl Oxidation Reaction. ACS Applied Nano Materials, 2020, 3, 7406-7419.	2.4	9
12	Thermal Stability of Single-Crystalline IrO₂(110) Layers: Spectroscopic and Adsorption Studies. Journal of Physical Chemistry C, 2020, 124, 15324-15336.	1.5	22
13	Extraordinary Stability of IrO₂(110) Ultrathin Films Supported on TiO₂(110) under Cathodic Polarization. Journal of Physical Chemistry Letters, 2020, 11, 9057-9062.	2.1	9
14	Mixed Ru<i>_x</i>Ir_{1â€“<i>x</i>}O₂ Oxide Catalyst with Well-Defined and Varying Composition Applied to CO Oxidation. Journal of Physical Chemistry C, 2020, 124, 18670-18683.	1.5	17
15	Rational Synthesis Concept for Cerium Oxide Nanoparticles: On the Impact of Particle Size on the Oxygen Storage Capacity. Journal of Physical Chemistry C, 2020, 124, 8736-8748.	1.5	28
16	Electrochemical stability of RuO2(110)/Ru(0001) model electrodes in the oxygen and chlorine evolution reactions. Electrochimica Acta, 2020, 336, 135713.	2.6	30
17	Catalytic Stability Studies Employing Dedicated Model Catalysts. Accounts of Chemical Research, 2020, 53, 380-389.	7.6	26
18	CeO₂ Wetting Layer on ZrO₂ Particle with Sharp Solid Interface as Highly Active and Stable Catalyst for HCl Oxidation Reaction. ACS Catalysis, 2019, 9, 10680-10693.	5.5	20

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19	Beyond the Rate-Determining Step in the Oxygen Evolution Reaction over a Single-Crystalline IrO₂(110) Model Electrode: Kinetic Scaling Relations. ACS Catalysis, 2019, 9, 6755-6765.	5.5	117
20	Growth of Ultrathin Single-Crystalline IrO₂(110) Films on a TiO₂(110) Single Crystal. Langmuir, 2019, 35, 7720-7726.	1.6	21
21	Potential-Induced Pitting Corrosion of an IrO₂(110)-RuO₂(110)/Ru(0001) Model Electrode under Oxygen Evolution Reaction Conditions. ACS Catalysis, 2019, 9, 6530-6539.	5.5	43
22	Atomic Layer Deposition of Titania in Ordered Mesoporous Cerium Zirconium Oxide Thin Films: A Case Study. Journal of Physical Chemistry C, 2019, 123, 12851-12861.	1.5	6
23	Oxygen storage capacity <i>versus</i> catalytic activity of ceriaâ€“zirconia solid solutions in CO and HCl oxidation. Catalysis Science and Technology, 2019, 9, 2163-2172.	2.1	37
24	In Situ Studies of the Electrochemical Reduction of a Supported Ultrathin Single-Crystalline RuO₂(110) Layer in an Acidic Environment. Journal of Physical Chemistry C, 2019, 123, 3979-3987.	1.5	19
25	A Universal Approach To Determine the Free Energy Diagram of an Electrocatalytic Reaction. ACS Catalysis, 2018, 8, 1864-1879.	5.5	128
26	Electrospinning of CeO₂ nanoparticle dispersions into mesoporous fibers: on the interplay of stability and activity in the HCl oxidation reaction. RSC Advances, 2018, 8, 132-144.	1.7	14
27	The stabilizing effect of water and high reaction temperatures on the CeO2-catalyst in the harsh HCl oxidation reaction. Journal of Catalysis, 2018, 357, 257-262.	3.1	18
28	Subtle Nanostructuring of the Au/Ru(0001) Surface. Nanoscale Research Letters, 2018, 13, 203.	3.1	3
29	Interaction of HCl with a CeO₂(111) Layer Supported on Ru(0001): A Theory and Experiment Combined Study. Journal of Physical Chemistry C, 2018, 122, 19584-19592.	1.5	6
30	Catalytic HCl oxidation reaction: Stabilizing effect of Zr-doping on CeO2 nano-rods. Applied Catalysis B: Environmental, 2018, 239, 628-635.	10.8	34
31	Template-Assisted Growth of Ultrathin Single-Crystalline IrO₂(110) Films on RuO₂(110)/Ru(0001) and Its Thermal Stability. Journal of Physical Chemistry C, 2018, 122, 14725-14732.	1.5	20
32	Temperature-Dependent Kinetic Studies of the Chlorine Evolution Reaction over RuO₂(110) Model Electrodes. ACS Catalysis, 2017, 7, 2403-2411.	5.5	111
33	Kinetics of Electrocatalytic Reactions from First-Principles: A Critical Comparison with the Ab Initio Thermodynamics Approach. Accounts of Chemical Research, 2017, 50, 1240-1247.	7.6	133
34	In Situ Study of the Oxygen-Induced Transformation of Pyrochlore Ce₂Zr₂O_{7+<i>x</i>} to the Îº-Ce₂Zr₂O₈ Phase. Chemistry of Materials, 2017, 29, 9218-9226.	3.2	20
35	Probing the Activity of Different Oxygen Species in the CO Oxidation over RuO₂(110) by Combining Transient Reflectionâ€“Absorption Infrared Spectroscopy with Kinetic Monte Carlo Simulations. ACS Catalysis, 2017, 7, 8420-8428.	5.5	16
36	Full Free Energy Diagram of an Electrocatalytic Reaction over a Singleâ€Crystalline Model Electrode. ChemElectroChem, 2017, 4, 2902-2908.	1.7	27

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37	Shape-Controlled CeO₂ Nanoparticles: Stability and Activity in the Catalyzed HCl Oxidation Reaction. ACS Catalysis, 2017, 7, 6453-6463.	5.5	109
38	Rate-Determining Step or Rate-Determining Configuration? The Deacon Reaction over RuO₂(110) Studied by DFT-Based KMC Simulations. ACS Catalysis, 2017, 7, 128-138.	5.5	45
39	Photo-Induced Morphology Changes at the RuO2(110)/TiO2(110) Surface: A Scanning Tunneling Microscopy Study. Topics in Catalysis, 2017, 60, 533-541.	1.3	4
40	Full Kinetics from First Principles of the Chlorine Evolution Reaction over a RuO₂(110) Model Electrode. Angewandte Chemie - International Edition, 2016, 55, 7501-7504.	7.2	120
41	Synthesis and full characterization of the phase-pure pyrochlore Ce2Zr2O7 and the Îº-Ce2Zr2O8 phases. Applied Catalysis B: Environmental, 2016, 197, 23-34.	10.8	28
42	Oxygen-Driven Porous Film Formation of Single-Crystalline Ru Deposited on Au(111). Langmuir, 2016, 32, 5291-5299.	1.6	3
43	Role of the Three-Phase Boundary of the Platinumâ€"Support Interface in Catalysis: A Model Catalyst Kinetic Study. ACS Catalysis, 2016, 6, 5865-5872.	5.5	14
44	The Nanostructuring of Atomically Flat Ru(0001) upon Oxidation and Reduction. Nanoscale Research Letters, 2016, 11, 534.	3.1	2
45	Full Kinetics from First Principles of the Chlorine Evolution Reaction over a RuO₂(110) Model Electrode. Angewandte Chemie, 2016, 128, 7627-7630.	1.6	15
46	Temperature-induced transformation of electrochemically formed hydrous RuO₂layers over Ru(0001) model electrodes. Nanoscale, 2016, 8, 13944-13953.	2.8	11
47	Synthesis and Physicochemical Characterization of Ce_{1âˆ'<i>x</i>}Gd_{<i>x</i>}O_{2âˆ'<i>Î´</i>}: A Case Study on the Impact of the Oxygen Storage Capacity on the HCl Oxidation Reaction. ChemCatChem, 2015, 7, 3738-3747.	1.8	16
48	Buckling Patterns of Grapheneâ€"Boron Nitride Alloy on Ru(0001). Advanced Materials Interfaces, 2015, 2, 1500322.	1.9	9
49	Density Functional Characterization of the Electronic Structures and Band Bending of Rutile RuO₂/TiO₂(110) Heterostructures. Journal of Physical Chemistry C, 2015, 119, 12394-12399.	1.5	13
50	Electrospun ceria-based nanofibers for the facile assessment of catalyst morphological stability under harsh HCl oxidation reaction conditions. Catalysis Today, 2015, 253, 207-218.	2.2	26
51	Combined experiment and theory approach in surface chemistry: Stairway to heaven?. Surface Science, 2015, 640, 165-180.	0.8	22
52	Ligand Effects and Their Impact on Electrocatalytic Processes Exemplified with the Oxygen Evolution Reaction (OER) on RuO₂(110). ChemElectroChem, 2015, 2, 707-713.	1.7	64
53	Versatile Model System for Studying Processes Ranging from Heterogeneous to Photocatalysis: Epitaxial RuO₂(110) on TiO₂(110). Journal of Physical Chemistry C, 2015, 119, 2692-2702.	1.5	24
54	Microscopic Insights into the Chlorine Evolution Reaction on RuO2(110): a Mechanistic Ab Initio Atomistic Thermodynamics Study. Electrocatalysis, 2015, 6, 163-172.	1.5	27

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55	Oxidation-Induced Dispersion of Gold on Ru(0001): A Scanning Tunneling Microscopy Study. Journal of Physical Chemistry C, 2015, 119, 16046-16057.	1.5	6
56	Insights into the gas phase oxidation of Ru(0001) on the mesoscopic scale using molecular oxygen. Physical Chemistry Chemical Physics, 2015, 17, 13895-13903.	1.3	13
57	Nanoscale Origin of Mesoscale Roughening: Real-Time Tracking and Identification of Three Distinct Ruthenium Oxide Phases in Ruthenium Oxidation. ACS Nano, 2015, 9, 8468-8473.	7.3	17
58	Chlorine Evolution Reaction on RuO2(110): Ab initio Atomistic Thermodynamics Study - Pourbaix Diagrams. Electrochimica Acta, 2014, 120, 460-466.	2.6	95
59	Atomic scale insights into the initial oxidation of Ru(0001) using atomic oxygen. Surface Science, 2014, 622, 24-34.	0.8	17
60	Controlling Selectivity in the Chlorine Evolution Reaction over RuO₂â€Based Catalysts. Angewandte Chemie - International Edition, 2014, 53, 11032-11035.	7.2	182
61	Kinetic Monte Carlo simulations of heterogeneously catalyzed oxidation reactions. Catalysis Science and Technology, 2014, 4, 583-598.	2.1	25
62	Room Temperature Oxidation of Ruthenium. Journal of Physical Chemistry C, 2013, 117, 15148-15154.	1.5	28
63	Stable and Active Mixed Zrâ€“Ce Oxides for Catalyzing the Gas Phase Oxidation of HCl. Catalysis Letters, 2013, 143, 1362-1367.	1.4	18
64	High Pressure Carbon Monoxide Oxidation over Platinum (111). Journal of Physical Chemistry C, 2013, 117, 9932-9942.	1.5	29
65	Atomic scale insights into electrochemical versus gas phase oxidation of HCl over RuO2-based catalysts: A comparative review. Electrochimica Acta, 2013, 93, 314-333.	2.6	57
66	What Makes a Good Catalyst for the Deacon Process?. ACS Catalysis, 2013, 3, 1034-1046.	5.5	69
67	Electrospun Metal Oxide Nanofibres for the Assessment of Catalyst Morphological Stability under Harsh Reaction Conditions. ChemCatChem, 2013, 5, 2621-2626.	1.8	18
68	Hexagonal C and BN superstructures on Ru(0001) and Ge(111). Materialwissenschaft Und Werkstofftechnik, 2013, 44, 129-135.	0.5	4
69	Experiment-Based Kinetic Monte Carlo Simulations: CO Oxidation over RuO₂(110). Journal of Physical Chemistry C, 2012, 116, 581-591.	1.5	43
70	Atomic Scale Insights into the Initial Oxidation of Ru(0001) Using Molecular Oxygen: A Scanning Tunneling Microscopy Study. Journal of Physical Chemistry C, 2012, 116, 24649-24660.	1.5	44
71	Adsorption of chlorine on Ru(0001)â€"A combined density functional theory and quantitative low energy electron diffraction study. Surface Science, 2012, 606, 297-304.	0.8	13
72	One-dimensional confinement in heterogeneous catalysis: Trapped oxygen on RuO2(110) model catalysts. Surface Science, 2012, 606, L69-L73.	0.8	15

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73	Atomic-Scale Understanding of the HCl Oxidation Over RuO₂, A Novel Deacon Process. Journal of Physical Chemistry C, 2012, 116, 6779-6792.	1.5	64
74	Surface Chemistry of Ruthenium Dioxide in Heterogeneous Catalysis and Electrocatalysis: From Fundamental to Applied Research. Chemical Reviews, 2012, 112, 3356-3426.	23.0	580
75	â€œFirstâ€Principlesâ€•kinetic monte carlo simulations revisited: CO oxidation over RuO₂(110). Journal of Computational Chemistry, 2012, 33, 757-766.	1.5	43
76	In situ studies of the oxidation of HCl over RuO2 model catalysts: Stability and reactivity. Journal of Catalysis, 2010, 272, 169-175.	3.1	54
77	Hydrogen-Promoted Chlorination of RuO₂(110). Journal of Physical Chemistry C, 2010, 114, 10901-10909.	1.5	25
78	Oxidation of HCl over TiO₂-Supported RuO₂: A Density Functional Theory Study. Journal of Physical Chemistry C, 2010, 114, 22624-22629.	1.5	42
79	Dynamic response of chlorine atoms on a RuO2(110) model catalyst surface. Physical Chemistry Chemical Physics, 2010, 12, 15358.	1.3	28
80	Deacon Process over RuO2 and TiO2-Supported RuO2. , 2010, , 517-528.		0
81	Modern Nanotemplates Based on Graphene and Single Layer h-BN. Zeitschrift Fur Physikalische Chemie, 2009, 223, 157-168.	1.4	18
82	Intimate interplay of theory and experiments in model catalysis. Surface Science, 2009, 603, 1717-1723.	0.8	30
83	Direct comparison of the reactivity of the non-oxidic phase of Ru(0001) and the RuO2 phase in the CO oxidation reaction. Surface Science, 2009, 603, 298-303.	0.8	41
84	Reaction mechanism of ammonia oxidation over RuO2(110): A combined theory/experiment approach. Surface Science, 2009, 603, L113-L116.	0.8	21
85	In situ structureâ€“activity correlation experiments of the ruthenium catalyzed CO oxidation reaction. Catalysis Today, 2009, 145, 236-242.	2.2	52
86	Novel Insight in the CO Oxidation on RuO2(110) by in Situ Reflectionâˆ’Absorption Infrared Spectroscopy. Journal of Physical Chemistry C, 2009, 113, 14341-14355.	1.5	37
87	Direct observation of space charge dynamics by picosecond low-energy electron scattering. Europhysics Letters, 2009, 85, 17010.	0.7	12
88	Oxidative Dehydrogenation of Simple Molecules over RuO2(110): Density Functional Theory Calculations. , 2009, , 187-199.		0
89	Stable Deacon Process for HCl Oxidation over RuO₂. Angewandte Chemie - International Edition, 2008, 47, 2131-2134.	7.2	123
90	Spectroscopic lineshape study of the self-perturbed oxygen A-band. Journal of Molecular Spectroscopy, 2008, 248, 85-110.	0.4	37

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91	Nanoscale morphology and oxidation of ion-sputtered Rh(110) and Ru(0001). Journal of Electron Spectroscopy and Related Phenomena, 2008, 166-167, 89-93.	0.8	9
92	Reaction Mechanism of the Oxidation of HCl over RuO₂(110). Journal of Physical Chemistry C, 2008, 112, 9966-9969.	1.5	68
93	Complex Growth of NanoAu on BN Nanomeshes Supported by Ru(0001). Journal of Physical Chemistry C, 2008, 112, 8147-8152.	1.5	51
94	Oxygen-Etching of h-BN/Ru(0001) Nanomesh on the Nano- and Mesoscopic Scale. Journal of Physical Chemistry C, 2008, 112, 10423-10427.	1.5	27
95	Oxidation of Ir(111): From Oâˆ’Irâˆ’O Trilayer to Bulk Oxide Formation. Journal of Physical Chemistry C, 2008, 112, 11946-11953.	1.5	77
96	MgO-Supported Rhodium Particles and Films: Size, Morphology, and Reactivity. Journal of Physical Chemistry C, 2008, 112, 9040-9044.	1.5	15
97	Heterogeneous oxidation catalysis on ruthenium: bridging the pressure and materials gaps and beyond. Journal of Physics Condensed Matter, 2008, 20, 184017.	0.7	57
98	<i>In situ</i> gasâ€“surface interactions: approaching realistic conditions. Journal of Physics Condensed Matter, 2008, 20, 180302.	0.7	14
99	Long-term stability of Ru-based protection layers in extreme ultraviolet lithography: A surface science approach. Journal of Vacuum Science & Technology B, 2007, 25, 1123.	1.3	31
100	Complex Interaction of Hydrogen with the RuO2(110) Surface. Journal of Physical Chemistry C, 2007, 111, 5363-5373.	1.5	88
101	Self-Assembly of a Hexagonal Boron Nitride Nanomesh on Ru(0001). Langmuir, 2007, 23, 2928-2931.	1.6	216
102	Oxidation and Reduction of Ultrathin Nanocrystalline Ru Films on Silicon:â€‰ Model System for Ru-Capped Extreme Ultraviolet Lithography Optics. Journal of Physical Chemistry C, 2007, 111, 10988-10992.	1.5	25
103	Boron Nitride Nanomesh: Functionality from a Corrugated Monolayer. Angewandte Chemie - International Edition, 2007, 46, 5115-5119.	7.2	209
104	Comment on â€œCO oxidation on ruthenium: The nature of the active catalytic surfaceâ€•by D.W. Goodman, C.H.F. Peden, M.S. Chen. Surface Science, 2007, 601, 5659-5662.	0.8	44
105	Comment on â€œInteraction of Hydrogen with RuO2(110) Surfaces:Â Activity Differences between Various Oxygen Speciesâ€• Journal of Physical Chemistry B, 2006, 110, 22947-22947.	1.2	18
106	Unusual Process of Water Formation on RuO2(110) by Hydrogen Exposure at Room Temperature. Journal of Physical Chemistry B, 2006, 110, 14007-14010.	1.2	35
107	Ultrathin Rh films on Ru(0001): Oxidation in confinement. Journal of Chemical Physics, 2006, 124, 034706.	1.2	1
108	Understanding the Structural Deactivation of Ruthenium Catalysts on an Atomic Scale under both Oxidizing and Reducing Conditions. Angewandte Chemie, 2005, 117, 939-942.	1.6	17

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109	Understanding the Structural Deactivation of Ruthenium Catalysts on an Atomic Scale under both Oxidizing and Reducing Conditions. Angewandte Chemie - International Edition, 2005, 44, 917-920.	7.2	91
110	Hydrogen Transfer Reaction on the Surface of an Oxide Catalyst. Journal of the American Chemical Society, 2005, 127, 3236-3237.	6.6	69
111	Ru(0001) Model Catalyst under Oxidizing and Reducing Reaction Conditions:Â In-Situ High-Pressure Surface X-ray Diffraction Study. Journal of Physical Chemistry B, 2005, 109, 21825-21830.	1.2	89
112	Rotational levels of the (000) and (010) states of D216O from hot emission spectra in the 320â€“860cmâˆ’1 region. Journal of Molecular Spectroscopy, 2004, 224, 32-60.	0.4	50
113	Visualization of Atomic Processes on Ruthenium Dioxide using Scanning Tunneling Microscopy. ChemPhysChem, 2004, 5, 167-174.	1.0	67
114	On the Nature of the Active State of Supported Ruthenium Catalysts Used for the Oxidation of Carbon Monoxide:Â Steady-State and Transient Kinetics Combined with in Situ Infrared Spectroscopyâ€. Journal of Physical Chemistry B, 2004, 108, 14634-14642.	1.2	97
115	The Role of Weakly Bound On-Top Oxygen in the Catalytic CO Oxidation Reaction over RuO2(110). Journal of the American Chemical Society, 2004, 126, 1537-1541.	6.6	61
116	Catalytic Activity of the RuO2(100) Surface in the Oxidation of COâ€. Journal of Physical Chemistry B, 2004, 108, 14392-14397.	1.2	46
117	Catalytic CO oxidation over rutheniumâ€“â€“bridging the pressure gap. Progress in Surface Science, 2003, 72, 3-17.	3.8	199
118	Catalytic activity of RuO2(1 1 0) in the oxidation of CO. Catalysis Today, 2003, 85, 167-175.	2.2	54
119	SURFACE CHEMISTRY: Oxidation of Metal Surfaces. Science, 2002, 297, 2003-2005.	6.0	169
120	On the origin of the Ru-3d5/2 satellite feature from RuO2(). Surface Science, 2002, 504, L196-L200.	0.8	72
121	Complex redox chemistry on the RuO2() surface: experiment and theory. Surface Science, 2002, 505, 137-152.	0.8	56
122	Ruthenium dioxide, a fascinating material for atomic scale surface chemistry. Applied Physics A: Materials Science and Processing, 2002, 75, 37-44.	1.1	71
123	Experimental and simulated STM images of stoichiometric and partially reduced RuO2() surfaces including adsorbates. Surface Science, 2002, 515, 143-156.	0.8	67
124	Characterization of Various Oxygen Species on an Oxide Surface:â€‰ RuO2(110). Journal of Physical Chemistry B, 2001, 105, 3752-3758.	1.2	209
125	Epitaxial Growth of RuO2(100) on Ru(101ì„0):â€‰ Surface Structure and Other Properties. Journal of Physical Chemistry B, 2001, 105, 2205-2211.	1.2	72
126	Direct Imaging of Catalytically Important Processes in the Oxidation of CO over RuO2(110). Journal of the American Chemical Society, 2001, 123, 11807-11808.	6.6	59

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127	CO adsorption on the reducedRuO2(110)surface: Energetics and structure. Physical Review B, 2001, 65, .	1.1	44
128	Bonding Mechanism and Atomic Geometry of an Ordered Hydroxyl Overlayer on Pt(111). Journal of the American Chemical Society, 2001, 123, 7347-7351.	6.6	76
129	Spectroscopic characterization of catalytically active surface sites of a metallic oxide. Chemical Physics Letters, 2001, 342, 467-472.	1.2	61
130	Oxidation Reactions over RuO2: A Comparative Study of the Reactivity of the (110) Single Crystal and Polycrystalline Surfaces. Journal of Catalysis, 2001, 202, 296-307.	3.1	129
131	Adsorption characteristics ofCOandN2onRuO2(110). Physical Review B, 2001, 63, .	1.1	35
132	Coadsorption of Cs with O and CO on Ru(0001): relation between structural and electronic properties. Progress in Surface Science, 2000, 64, 211-223.	3.8	2
133	Identification of RuO2 as the active phase in CO oxidation on oxygen-rich ruthenium surfaces. Topics in Catalysis, 2000, 14, 95-100.	1.3	103
134	Comparison of the electronic structure and surface geometry of the metastableCs+Ooverlayers on Ru(0001). Physical Review B, 2000, 61, 8455-8461.	1.1	6
135	The atomic geometry of oxygen-rich Ru(0001) surfaces: coexistence of (1Ã—1)O and RuO2(110) domains. Surface Science, 2000, 465, 1-8.	0.8	74
136	Comprehensive characterization of the (2Ã—2)-O and the CO-induced overlayers on Pd(111). Surface Science, 2000, 468, 176-186.	0.8	57
137	Atomic-Scale Structure and Catalytic Reactivity of the RuO2(110) Surface. Science, 2000, 287, 1474-1476.	6.0	829
138	Electrochemical versus Gas-Phase Oxidation of Ru Single-Crystal Surfaces. Journal of Physical Chemistry B, 2000, 104, 6040-6048.	1.2	83
139	Surface x-ray-diffraction study of theRh(111)+(2Ã—2)â˜3COstructure. Physical Review B, 1999, 59, 5876-5880.	1.1	35
140	Defect structures on epitaxialFe3O4(111)films. Physical Review B, 1999, 60, 11062-11069.	1.1	108
141	The atomic geometries of Cs and K adsorbed on Pd(111): the important role of the ionization potential of the substrate for the bonding. Physical Chemistry Chemical Physics, 1999, 1, 2001-2005.	1.3	11
142	Transient Experiments on CO2 Formation by the CO Oxidation Reaction over Oxygen-Rich Ru(0001) Surfaces. Journal of Physical Chemistry B, 1999, 103, 6267-6271.	1.2	54
143	Crystallographic study of interaction between adspecies on metal surfaces. Progress in Surface Science, 1998, 58, 249-376.	3.8	110
144	Structural studies of WC(0001) and the adsorption of benzene. Journal of Electron Spectroscopy and Related Phenomena, 1998, 96, 53-60.	0.8	16

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145	The 3Ã—1-Li to 7Ã—7 structural transformation of Si(111) due to Li desorption. Surface Science, 1998, 410, 15-20.	0.8	6
146	Structural analyses of the pure and cesiated Ru(0001)â€“(2Ã—2)-3O phase. Surface Science, 1998, 418, 267-272.	0.8	45
147	Anomalous hydrogen adsorption sites found for the c(2Ã—2)-3H phases formed on the Re(101Ì„0) and Ru(101Ì„0) surfaces. Journal of Chemical Physics, 1998, 108, 8671-8679.	1.2	34
148	Electronic properties of Cs+CO coadsorbed on the Ru(0001) surface. Journal of Chemical Physics, 1998, 108, 774-799.	1.2	13
149	Ge(113) reconstruction stabilized by subsurface interstitials: An x-ray diffraction structure analysis. Physical Review B, 1998, 57, 2315-2320.	1.1	23
150	New Bonding Configuration on Si(111) and Ge(111) Surfaces Induced by the Adsorption of Alkali Metals. Physical Review Letters, 1998, 80, 3980-3983.	2.9	104
151	Oxygen adsorption on the Ru(101Â¯0) surface: Anomalous coverage dependence. Physical Review B, 1998, 57, 15487-15495.	1.1	68
152	Surface atomic geometry of Si(001)-(2Ã—1): A low-energy electron-diffraction structure analysis. Physical Review B, 1997, 55, 4731-4736.	1.1	91
153	Unusual disordering processes of oxygen overlayers on Rh(111): A combined diffraction study using thermal He atoms and low-energy electrons. Physical Review B, 1997, 55, 4717-4722.	1.1	6
154	CO Oxidation Reaction over Oxygen-Rich Ru(0001) Surfaces. Journal of Physical Chemistry B, 1997, 101, 11185-11191.	1.2	156
155	Structure of epitaxial iron oxide films grown on Pt(100) determined by low energy electron diffraction. Surface Science, 1997, 371, 245-254.	0.8	37
156	The adsorption geometry of the (2 Ã— 1)-2O oxygen phase formed on the Co(101Ì„0) surface. Surface Science, 1997, 370, L201-L206.	0.8	27
157	Temperature behavior of the (âˆš3 Ã— âˆš3)R30Â°-1CO and the (2 Ã— 2)-3CO overlayers on Rh(111): a combined HAS and LEED investigation. Surface Science, 1997, 376, 177-184.	0.8	12
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