

# Bruce E Koel

## List of Publications by Year in descending order

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336  
papers

15,496  
citations

18436

62  
h-index

24915

109  
g-index

346  
all docs

346  
docs citations

346  
times ranked

13651  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma-assisted catalysis for ammonia synthesis in a dielectric barrier discharge reactor: key surface reaction steps and potential causes of low energy yield. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 055202.	1.3	10
2	<i>In Situ</i> Identification of NNH and N <sub>2</sub> H <sub>2</sub> by Using Molecular-Beam Mass Spectrometry in Plasma-Assisted Catalysis for NH <sub>3</sub> Synthesis. <i>ACS Energy Letters</i> , 2022, 7, 53-58.	8.8	25
3	Determination of the characteristic magnetic pre-sheath length at divertor surfaces using micro-engineered targets on DiMES at DIII-D. <i>Nuclear Fusion</i> , 2022, 62, 066001.	1.6	3
4	Propane Dehydrogenation to Propylene and Propylene Adsorption on Ni and Ni <sub>5</sub> Sn Catalysts. <i>ChemCatChem</i> , 2022, 14, .	1.8	13
5	Spectroscopic observation and structure-insensitivity of hydroxyls on gold. <i>Chemical Communications</i> , 2022, 58, 4036-4039.	2.2	6
6	Sputtering and reflection processes from amorphous lithium surfaces by low-energy impacts of H and D atoms and D <sub>2</sub> molecules. <i>Journal of Nuclear Materials</i> , 2022, 568, 153848.	1.3	5
7	Energy, angle, and temperature dependencies of the sticking of D atoms on Li surfaces. <i>Journal of Applied Physics</i> , 2022, 131, .	1.1	3
8	Controlled Dy-doping to nickel-rich cathode materials in high temperature aerosol synthesis. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 6623-6630.	2.4	11
9	Thermal stability of oxidized ultrathin Li films on TZM for plasma facing components. <i>Journal of Nuclear Materials</i> , 2021, 543, 152587.	1.3	6
10	Mid-Infrared Scattering in $\hat{\Gamma}$ -Al <sub>2</sub> O <sub>3</sub> Catalytic Powders. <i>Applied Spectroscopy</i> , 2021, 75, 706-717.	1.2	0
11	Experimental verification of ion impact angle distribution at divertor surfaces using micro-engineered targets on DiMES at DIII-D. <i>Nuclear Materials and Energy</i> , 2021, 27, 100965.	0.6	7
12	Visualizing Zinc Dendrites in Minimal Architecture Zinc Bromine Batteries via in-house Transmission X-ray Microscopy. <i>Microscopy and Microanalysis</i> , 2021, 27, 2448-2451.	0.2	2
13	Increasing Iridium Oxide Activity for the Oxygen Evolution Reaction with Hafnium Modification. <i>Journal of the American Chemical Society</i> , 2021, 143, 15616-15623.	6.6	82
14	SIMS and HR-XPS characterization of lithiated graphite from the magnetic fusion device RFX-mod. <i>Applied Surface Science</i> , 2021, 567, 150830.	3.1	9
15	Oxidation of lithium plasma facing components and its effect on plasma performance in the lithium tokamak experiment- $\hat{\Gamma}$ <sup>2</sup> . <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 025007.	0.9	4
16	Effects of non-equilibrium excitation on methane oxidation in a low-temperature RF discharge. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 064001.	1.3	14
17	Initial Results From the Newly Upgraded LTX- $\hat{\Gamma}$ <sup>2</sup> . <i>IEEE Transactions on Plasma Science</i> , 2020, 48, 1382-1387.	0.6	9
18	Acetic Acid Adsorption and Reactions on Ni(110). <i>Langmuir</i> , 2020, 36, 8705-8715.	1.6	14

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19	A simple vacuum suitcase for enabling plasma facing component characterization in fusion devices. Review of Scientific Instruments, 2020, 91, 026104.	0.6	6
20	Plasma Facing Component Characterization and Correlation With Plasma Conditions in Lithium Tokamak Experiment- <i>I</i> <sup>2</sup> . IEEE Transactions on Plasma Science, 2020, 48, 1463-1467.	0.6	17
21	(Invited) Modified Oxide Electrocatalysts for Renewable Fuels and Energy. ECS Meeting Abstracts, 2020, MA2020-01, 1713-1713.	0.0	0
22	Balancing Activity and Stability in a Ternary Au-Pd/Fe Electrocatalyst for ORR with High Surface Coverages of Au. ChemCatChem, 2019, 11, 693-697.	1.8	9
23	Deuterium and helium ion irradiation of nanograined tungsten and tungsten-titanium alloys. Nuclear Materials and Energy, 2019, 21, 100713.	0.6	10
24	Elemental and topographical imaging of microscopic variations in deposition on NSTX-U and DIII-D samples. Nuclear Materials and Energy, 2019, 18, 35-40.	0.6	3
25	Sputtering of lithium and lithium compound films under deuterium and helium ion bombardment. Nuclear Materials and Energy, 2019, 19, 411-415.	0.6	6
26	NSTX/NSTX-U theory, modeling and analysis results. Nuclear Fusion, 2019, 59, 112007.	1.6	20
27	Post exposure time dependence of deuterium retention in lithium and lithium compounds. Nuclear Materials and Energy, 2019, 19, 161-165.	0.6	2
28	Nitrogen-plasma treated hafnium oxyhydroxide as an efficient acid-stable electrocatalyst for hydrogen evolution and oxidation reactions. Nature Communications, 2019, 10, 1543.	5.8	50
29	Self-assembling of formic acid on the partially oxidized $(2\sqrt{3}-1)$ Cu(110) surface reconstruction at low coverages. Journal of Chemical Physics, 2019, 150, 041720.	1.2	3
30	(Invited) Hafnium Oxynitride-Derived Electrocatalyst with High Activity and Stability in Strong Acid for Both Hydrogen Evolution and Oxidation Reactions. ECS Meeting Abstracts, 2019, , .	0.0	0
31	Formation and thermal stability of subsurface deuterium in Ni(110). Surface Science, 2018, 674, 69-72.	0.8	5
32	Hydrogen retention in lithium and lithium oxide films. Journal of Nuclear Materials, 2018, 502, 161-168.	1.3	20
33	Investigation of Water Dissociation and Surface Hydroxyl Stability on Pure and Ni-Modified CoOOH by Ambient Pressure Photoelectron Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 810-817.	1.2	18
34	Reversible Structural Evolution of NiCoO <sub>x</sub> H <sub>y</sub> during the Oxygen Evolution Reaction and Identification of the Catalytically Active Phase. ACS Catalysis, 2018, 8, 1238-1247.	5.5	153
35	Adsorption and Reaction of Unsaturated Hydrocarbons on Sn/Pt Alloys. , 2018, , 1-10.		2
36	Guaiacol Adsorption and Decomposition on Platinum. Journal of Physical Chemistry C, 2018, 122, 29180-29189.	1.5	21

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37	Angular, temperature, and impurity effects on secondary electron emission from Ni(110). Journal of Applied Physics, 2018, 124, .	1.1	7
38	Shear-Induced Changes of Electronic Properties in Gallium Nitride. ACS Applied Materials & Interfaces, 2018, 10, 29048-29057.	4.0	5
39	Interactions of incident H atoms with metal surfaces. Surface Science Reports, 2018, 73, 153-189.	3.8	21
40	Thermal stability of Li films on polycrystalline molybdenum substrates. Journal of Nuclear Materials, 2018, 509, 532-541.	1.3	4
41	Hydrogenation of CO on Ni(110) by Energetic Deuterium. Journal of Physical Chemistry C, 2018, 122, 14671-14677.	1.5	2
42	Electrocatalytic hydrogenation of pyridinium enabled by surface proton transfer reactions. Catalysis Science and Technology, 2017, 7, 831-837.	2.1	16
43	Compatibility of lithium plasma-facing surfaces with high edge temperatures in the Lithium Tokamak Experiment. Physics of Plasmas, 2017, 24, .	0.7	28
44	Minimal architecture zinc-bromine battery for low cost electrochemical energy storage. Energy and Environmental Science, 2017, 10, 114-120.	15.6	107
45	Stable synthesis of few-layered boron nitride nanotubes by anodic arc discharge. Scientific Reports, 2017, 7, 3075.	1.6	50
46	Overview of NSTX Upgrade initial results and modelling highlights. Nuclear Fusion, 2017, 57, 102006.	1.6	45
47	Advances in boronization on NSTX-Upgrade. Nuclear Materials and Energy, 2017, 12, 744-748.	0.6	13
48	Pyrolysis and Oxidation of Methane in a RF Plasma Reactor. Plasma Chemistry and Plasma Processing, 2017, 37, 1551-1571.	1.1	21
49	The promoting effect of tetravalent cerium on the oxygen evolution activity of copper oxide catalysts. Physical Chemistry Chemical Physics, 2017, 19, 31545-31552.	1.3	44
50	on-Synthesis-on and off-Synthesis-off modes of carbon arc operation during synthesis of carbon nanotubes. Carbon, 2017, 125, 336-343.	5.4	26
51	Unraveling the plasma-material interface with real time diagnosis of dynamic boron conditioning in extreme tokamak plasmas. Nuclear Fusion, 2017, 57, 086050.	1.6	11
52	Initial studies of plasma facing component surface conditioning in the national spherical tokamak experiment upgrade with the materials analysis particle probe. Nuclear Materials and Energy, 2017, 12, 1248-1252.	0.6	11
53	Hydrogenation of CO to Methanol on Ni(110) through Subsurface Hydrogen. Journal of the American Chemical Society, 2017, 139, 17582-17589.	6.6	35
54	Hydrogen retention in lithium on metallic walls from in vacuo analysis in LTX and implications for high-Z plasma-facing components in NSTX-U. Fusion Engineering and Design, 2017, 117, 135-139.	1.0	20

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55	Activity of pure and transition metal-modified CoOOH for the oxygen evolution reaction in an alkaline medium. <i>Journal of Materials Chemistry A</i> , 2017, 5, 842-850.	5.2	158
56	Glass transition temperature of colloidal polystyrene dispersed in various liquids. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1776-1783.	2.4	21
57	Secondary electron emission from lithium and lithium compounds. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	9
58	Unraveling wall conditioning effects on plasma facing components in NSTX-U with the Materials Analysis Particle Probe (MAPP). <i>Review of Scientific Instruments</i> , 2016, 87, 11D403.	0.6	9
59	Effect of Temperature on the Desorption of Lithium from Molybdenum(110) Surfaces: Implications for Fusion Reactor First Wall Materials. <i>Journal of Physical Chemistry B</i> , 2016, 120, 6110-6119.	1.2	15
60	Reprint of "The low temperature oxidation of lithium thin films on HOPG by O <sub>2</sub> and H <sub>2</sub> O". <i>Surface Science</i> , 2016, 652, 222-229.	0.8	1
61	The low temperature oxidation of lithium thin films on HOPG by O <sub>2</sub> and H <sub>2</sub> O. <i>Surface Science</i> , 2016, 651, 120-127.	0.8	2
62	Sorption of atmospheric gases by bulk lithium metal. <i>Journal of Nuclear Materials</i> , 2016, 468, 71-77.	1.3	9
63	Structures and Reactivities of Tin Oxide on Pt(111) Studied by Ambient Pressure X-ray Photoelectron Spectroscopy (APXPS). <i>Topics in Catalysis</i> , 2016, 59, 497-505.	1.3	5
64	Spreading of lithium on a stainless steel surface at room temperature. <i>Journal of Nuclear Materials</i> , 2016, 468, 26-30.	1.3	7
65	Composition, structure and stability of surfaces formed by Ni deposition on Pd(111). <i>Surface Science</i> , 2016, 646, 56-64.	0.8	7
66	Orbital-Resolved Imaging of the Adsorbed State of Pyridine on GaP(110) Identifies Sites Susceptible to Nucleophilic Attack. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28917-28924.	1.5	8
67	Effects of temperature and surface contamination on D retention in ultrathin Li films on TZM. <i>Journal of Nuclear Materials</i> , 2015, 463, 1177-1180.	1.3	29
68	Observation of Surface-Bound Negatively Charged Hydride and Hydroxide on GaP(110) in H <sub>2</sub> O Environments. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17762-17772.	1.5	39
69	of Plasmas, 2015, 22, 056112.	0.7	31
70	Analysis of secondary electron emission for conducting materials using 4-grid LEED/AES optics. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 195204.	1.3	22
71	An overview of recent physics results from NSTX. <i>Nuclear Fusion</i> , 2015, 55, 104002.	1.6	21
72	Facet-dependent activity and stability of Co <sub>3</sub> O <sub>4</sub> nanocrystals towards the oxygen evolution reaction. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 29387-29393.	1.3	190

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73	The (0001) surfaces of $\text{Fe}_2\text{O}_3$ nanocrystals are preferentially activated for water oxidation by Ni doping. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26797-26803.	1.3	8
74	Lithium wetting of stainless steel studied via scanning auger microscopy. , 2014, , .		0
75	Geometric Requirements for Hydrocarbon Catalytic Sites on Platinum Surfaces. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3641-3644.	7.2	39
76	Water Oxidation Catalysis: Effects of Nickel Incorporation on the Structural and Chemical Properties of the $\text{Fe}_2\text{O}_3$ (0001) Surface. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 22289-22296.	4.0	9
77	Ge overlayer and surface alloy structures on Pt(100) studied using alkali ion scattering spectroscopy, x-ray photoelectron spectroscopy and x-ray photoelectron diffraction. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 135002.	0.7	2
78	Theoretical Study of Carbon Adsorption on Re Surfaces: Morphological Instability. <i>Catalysis Letters</i> , 2014, 144, 1667-1673.	1.4	1
79	$\text{WO}_3/\text{Fe}_2\text{O}_3$ composite photoelectrodes with low onset potential for solar water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1327-1332.	1.3	38
80	Structural origin of anisotropic transport in electrically conducting dichloroacetic acid-treated polymers. <i>Organic Electronics</i> , 2014, 15, 631-638.	1.4	8
81	A new class of electrocatalysts of supporting Pt on an Engel-Brewer alloy substrate: a demonstration for oxidation of ethylene glycol. <i>Chemical Communications</i> , 2014, 50, 12981-12984.	2.2	4
82	Hydrogen-Bonded Cyclic Water Clusters Nucleated on an Oxide Surface. <i>Journal of the American Chemical Society</i> , 2014, 136, 13283-13288.	6.6	32
83	Transport of poly(acrylic acid) coated 2-line ferrihydrite nanoparticles in saturated aquifer sediments for environmental remediation. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	4
84	Titanium incorporation into hematite photoelectrodes: theoretical considerations and experimental observations. <i>Energy and Environmental Science</i> , 2014, 7, 3100-3121.	15.6	118
85	Poly(acrylic acid) coating induced 2-line ferrihydrite nanoparticle transport in saturated porous media. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	11
86	Highly Stable Pt@Au@Ru/C Catalyst Nanoparticles for Methanol Electro-oxidation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1457-1467.	1.5	36
87	Alloy formation and chemisorption at Cu/Pt(111) bimetallic surfaces using alkali ISS, XPD, and TPD. <i>Surface Science</i> , 2013, 617, 192-198.	0.8	9
88	Iron nanoparticles for environmental clean-up: recent developments and future outlook. <i>Environmental Sciences: Processes and Impacts</i> , 2013, 15, 63-77.	1.7	316
89	Alloy Formation and Chemisorption at Zn/Pt(111) Bimetallic Surfaces Using Alkali ISS, XPD, and TPD. <i>Journal of Physical Chemistry A</i> , 2013, 117, 11684-11694.	1.1	11
90	Controlling Acetylene Adsorption and Reactions on Pt@Sn Catalytic Surfaces. <i>ACS Catalysis</i> , 2013, 3, 1149-1153.	5.5	43

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91	Plasma facing surface composition during NSTX Li experiments. <i>Journal of Nuclear Materials</i> , 2013, 438, S647-S650.	1.3	40
92	Combining Vibrational Spectroscopies with Quantum Chemical Calculations for Molecular-Level Understanding of Reaction Mechanisms on Catalytic Surfaces. <i>ACS Symposium Series</i> , 2013, , 153-176.	0.5	2
93	Intraparticle Reduction of Arsenite (As(III)) by Nanoscale Zerovalent Iron (nZVI) Investigated with In Situ X-ray Absorption Spectroscopy. <i>Environmental Science &amp; Technology</i> , 2012, 46, 7018-7026.	4.6	127
94	As(III) Sequestration by Iron Nanoparticles: Study of Solid-Phase Redox Transformations with X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5303-5311.	1.5	128
95	Nanofaceted C/Re(112̄...1): Fabrication, Structure, and Template for Synthesizing Nanostructured Model Pt Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Nano</i> , 2012, 6, 1404-1409.	7.3	18
96	Activation of Tungsten Carbide Catalysts by Use of an Oxygen Plasma Pretreatment. <i>ACS Catalysis</i> , 2012, 2, 765-769.	5.5	67
97	Electrochemical and spectroscopic study of novel Cu and Fe-based catalysts for oxygen reduction in alkaline media. <i>Journal of Power Sources</i> , 2012, 213, 169-179.	4.0	76
98	Role of Surface Iron in Enhanced Activity for the Oxygen Reduction Reaction on a Pd <sub>3</sub> Fe(111) Single-Crystal Alloy. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10182-10185.	7.2	33
99	A novel CuFe-based catalyst for the oxygen reduction reaction in alkaline media. <i>Journal of Power Sources</i> , 2011, 196, 7404-7410.	4.0	72
100	Modification of Active Sites on YSZ(111) by Yttria Segregation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 5990-5996.	1.5	18
101	Multi-tiered distributions of arsenic in iron nanoparticles: Observation of dual redox functionality enabled by a core-shell structure. <i>Chemical Communications</i> , 2010, 46, 6995.	2.2	61
102	Formation of Pd Monomers and Dimers on a Single-Crystal Pd <sub>3</sub> Fe(111) Surface. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2493-2497.	2.1	5
103	Adsorption and Decomposition of Cyclohexanone (C <sub>6</sub> H <sub>10</sub> O) on Pt(111) and the (2̄-2) and (̄3̄-3̄) Sn/Pt(111) Surface Alloys. <i>Langmuir</i> , 2010, 26, 16401-16411.	1.6	16
104	Influence of phosphate anion adsorption on the kinetics of oxygen electroreduction on low index Pt(hkl) single crystals. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12544.	1.3	127
105	Studies of Ethylene Oxide Adsorption on Pt-Sn Alloys with TPD, HREELS, UPS, and DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17238-17247.	1.5	14
106	Structure, Characterization and Reactivity of Pt-Sn Surface Alloys. , 2010, , 29-50.		0
107	Surface Structure of Pd <sub>3</sub> Fe(111) and Effects of Oxygen Adsorption. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1217, 1.	0.1	0
108	STM and LEED observations of a c(2̄-2) Ge overlayer on Pt(100). <i>Surface Science</i> , 2009, 603, 2255-2262.	0.8	1



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109	Investigation of CO Oxidation Transient Kinetics on an Oxygen Pre-covered Au(211) Stepped Surface. <i>Catalysis Letters</i> , 2009, 128, 263-267.	1.4	13
110	A study of iodine adlayers on polycrystalline gold electrodes by in situ electrochemical Rutherford backscattering (ECRBS). <i>Electrochimica Acta</i> , 2009, 54, 1777-1783.	2.6	8
111	An IRAS study of CO bonding on Sn/Pt(111) surface alloys at maximal pressures of 10Torr. <i>Surface Science</i> , 2009, 603, 455-461.	0.8	7
112	Formation and structure of a (19Å <sup>2</sup> ) <sub>23.4</sub> °-Ge/Pt(111) surface alloy. <i>Surface Science</i> , 2009, 603, 1161-1167.	0.8	19
113	Site-blocking effects of preadsorbed H on Pt(111) probed by 1,3-butadiene adsorption and reaction. <i>Surface Science</i> , 2009, 603, 3355-3360.	0.8	8
114	Formation of Ge <sup>+</sup> Pt Layer Compound on Pt(100). <i>Journal of Physical Chemistry C</i> , 2009, 113, 21019-21021.	1.5	1
115	Improving Electrocatalysts for O <sub>2</sub> Reduction by Fine-Tuning the Pt <sup>+</sup> Support Interaction: Pt Monolayer on the Surfaces of a Pd <sub>3</sub> Fe(111) Single-Crystal Alloy. <i>Journal of the American Chemical Society</i> , 2009, 131, 12755-12762.	6.6	224
116	Probing Selectivity over Pt <sup>+</sup> Sn Catalysts in Reactions of <i>n</i> -C <sub>6</sub> Hydrocarbons: Adsorption and Reactivity of <i>n</i> -Hexane, 1-Hexene, and 1,5-Hexadiene on Pt(111) and Sn/Pt(111) Surface Alloys. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18152-18162.	1.5	11
117	Simultaneous Oxidation and Reduction of Arsenic by Zero-Valent Iron Nanoparticles: Understanding the Significance of the Core <sup>+</sup> Shell Structure. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14591-14594.	1.5	232
118	Determination of the Oxide Layer Thickness in Core <sup>+</sup> Shell Zerovalent Iron Nanoparticles. <i>Langmuir</i> , 2008, 24, 4329-4334.	1.6	204
119	Voxels: volume-enclosing microstructures. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 055025.	1.5	9
120	Real-time scanning tunneling microscopy observations of the oxidation of a Ti <sup>+</sup> Pt(111)-(2Å <sup>2</sup> ) surface alloy using O <sub>2</sub> and NO <sub>2</sub> . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008, 26, 1336-1342.	0.9	3
121	Oxidation of Au on vicinal W(110): Role of step edges and facets. <i>Physical Review B</i> , 2007, 75, .	1.1	1
122	Investigation of the Thermal Stability of 2-D Patterns of Au Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 2863-2869.	0.9	1
123	CO Adsorption and Reaction on Clean and Oxygen-Covered Au(211) Surfaces. <i>Journal of Physical Chemistry B</i> , 2006, 110, 17512-17517.	1.2	90
124	Fractional Factorial Study of HCN Removal over a 0.5% Pt/Al <sub>2</sub> O <sub>3</sub> Catalyst: Effects of Temperature, Gas Flow Rate, and Reactant Partial Pressure. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 934-939.	1.8	19
125	Desorption of chemisorbed Carbon on Mo(100) by noble gas ion sputtering: Validation of ground test measurements of ion engine lifetimes. <i>Applied Surface Science</i> , 2006, 252, 2657-2664.	3.1	9
126	Oxygen adsorption and oxidation reactions on Au(211) surfaces: Exposures using O <sub>2</sub> at high pressures and ozone (O <sub>3</sub> ) in UHV. <i>Surface Science</i> , 2006, 600, 4622-4632.	0.8	86



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127	Catalytic oxidation of HCN over a 0.5% Pt/Al <sub>2</sub> O <sub>3</sub> catalyst. Applied Catalysis B: Environmental, 2006, 65, 282-290.	10.8	61
128	Investigation of Ruthenium Dissolution in Advanced Membrane Electrode Assemblies for Direct Methanol Based Fuel Cell Stacks. ECS Transactions, 2006, 1, 293-303.	0.3	10
129	Hydrogenation of 1,3-butadiene on two ordered Sn/Pt(111) surface alloys. Journal of Catalysis, 2005, 234, 24-32.	3.1	26
130	Reactivity of Ethyl Groups on a Sn/Pt(111) Surface Alloy. Catalysis Letters, 2005, 99, 27-32.	1.4	10
131	Influence of Coadsorbed Hydrogen on Ethylene Adsorption and Reaction on a (111)-Sn/Pt(111) Surface Alloy. Langmuir, 2005, 21, 971-975.	1.6	9
132	Fabrication of Polystyrene Latex Nanostructures by Nanomanipulation and Thermal Processing. Nano Letters, 2005, 5, 2624-2629.	4.5	22
133	TPD and FT-IRAS Investigation of Ethylene Oxide (EtO) Adsorption on a Au(211) Stepped Surface. Langmuir, 2005, 21, 3886-3891.	1.6	9
134	Epitaxial growth of tin oxide on Pt(111): Structure and properties of wetting layers and SnO <sub>2</sub> crystallites. Physical Review B, 2004, 69, .	1.1	41
135	Suppressed surface alloying for a bulk miscible system: Ge on Pt(100). Physical Review B, 2004, 69, .	1.1	6
136	Probing the chemistry of CH <sub>3</sub> I on Pt-Sn alloys. Surface Science, 2004, 553, 39-49.	0.8	8
137	Silver on Pt(100) room temperature growth and high temperature alloying. Surface Science, 2004, 553, 50-60.	0.8	19
138	TPD and HREELS reinvestigation of ethylene oxide adsorption on Pt(). Surface Science, 2004, 564, 53-61.	0.8	14
139	Nanofiltration of natural organic matter with H <sub>2</sub> O <sub>2</sub> /UV pretreatment: fouling mitigation and membrane surface characterization. Journal of Membrane Science, 2004, 241, 143-160.	4.1	125
140	Thermal stability of ultrathin titanium films on a Pt(111) substrate. Thin Solid Films, 2004, 466, 123-127.	0.8	14
141	Desorption energies of linear and cyclic alkanes on surfaces: anomalous scaling with length. Surface Science, 2004, 554, 125-140.	0.8	60
142	Adsorption and reaction of NO <sub>2</sub> on a (111)-Sn/Pt(111) surface alloy. Surface Science, 2004, 560, 235-245.	0.8	8
143	Metastable surface structures of the bimetallic Sn/Pt(100) system. Surface Science, 2004, 558, 35-48.	0.8	11
144	Fundamental studies of titanium oxide-Pt(100) interfaces II. Influence of oxidation and reduction reactions on the surface structure of TiO <sub>x</sub> films on Pt(100). Surface Science, 2004, 572, 146-161.	0.8	31

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145	Fundamental studies of titanium oxideâ€“Pt(100) interfaces. Surface Science, 2004, 572, 127-145.	0.8	56
146	Adsorption and reaction of 1,3-butadiene on Pt(111) and Sn/Pt(111) surface alloys. Surface Science, 2004, 572, 261-268.	0.8	19
147	Adsorption and reaction of bicyclic hydrocarbons at Pt(111) and Sn/Pt(111) surface alloys: trans-decahydronaphthalene (C <sub>10</sub> H <sub>18</sub> ) and bicyclohexane (C <sub>12</sub> H <sub>22</sub> ). Surface Science, 2004, 573, 413-425.	0.8	6
148	Hydrogenation of cyclohexanone on Ptâ€“Sn surface alloys. Journal of Catalysis, 2004, 222, 285-292.	3.1	25
149	Alloy Formation and CO Adsorption on Bimetallic Ca/Pd(111) Surfacesâ€“. Journal of Physical Chemistry B, 2004, 108, 14417-14427.	1.2	5
150	Adsorption and reaction of acetaldehyde on Pt( 111 ) and Sn/Pt( 111 ) surface alloys. Surface Science, 2003, 538, 147-159.	0.8	91
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