

Bruce E Koel

List of Publications by Year in descending order

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336
papers

15,496
citations

18436

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109
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346
all docs

346
docs citations

346
times ranked

13651
citing authors

#	ARTICLE	IF	CITATIONS
1	Local detection of electromagnetic energy transport below the diffraction limit in metal nanoparticle plasmon waveguides. <i>Nature Materials</i> , 2003, 2, 229-232.	13.3	2,207
2	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
3	Adsorption of oxygen on Au(111) by exposure to ozone. <i>Surface Science</i> , 1998, 410, 270-282.	0.8	312
4	Study of high coverages of atomic oxygen on the Pt(111) surface. <i>Surface Science</i> , 1989, 217, 489-510.	0.8	275
5	X-Ray photoelectron study of the reaction of oxygen with cerium. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1980, 21, 17-30.	0.8	268
6	Simultaneous Oxidation and Reduction of Arsenic by Zero-Valent Iron Nanoparticles: Understanding the Significance of the Core-Shell Structure. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14591-14594.	1.5	232
7	Improving Electrocatalysts for O ₂ Reduction by Fine-Tuning the Pt-Support Interaction: Pt Monolayer on the Surfaces of a Pd ₃ Fe(111) Single-Crystal Alloy. <i>Journal of the American Chemical Society</i> , 2009, 131, 12755-12762.	6.6	224
8	Determination of the Oxide Layer Thickness in Core-Shell Zerovalent Iron Nanoparticles. <i>Langmuir</i> , 2008, 24, 4329-4334.	1.6	204
9	Facet-dependent activity and stability of Co ₃ O ₄ nanocrystals towards the oxygen evolution reaction. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 29387-29393.	1.3	190
10	Chemisorption of carbon monoxide, hydrogen, and oxygen on ordered tin/platinum(111) surface alloys. <i>The Journal of Physical Chemistry</i> , 1990, 94, 6831-6839.	2.9	161
11	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
12	Low temperature coadsorption of hydrogen and carbon monoxide on Ni(100). <i>Surface Science</i> , 1983, 125, 709-738.	0.8	155
13	Reversible Structural Evolution of NiCoO _x H _y during the Oxygen Evolution Reaction and Identification of the Catalytically Active Phase. <i>ACS Catalysis</i> , 2018, 8, 1238-1247.	5.5	153
14	Coadsorption of ethylene and potassium on platinum (111). 1. Formation of a .pi.-bonded state of ethylene. <i>The Journal of Physical Chemistry</i> , 1988, 92, 2862-2870.	2.9	148
15	Interaction of oxygen with Pd(111): High effective O ₂ pressure conditions by using nitrogen dioxide. <i>Surface Science</i> , 1990, 232, 275-285.	0.8	139
16	Nanoparticle manipulation by mechanical pushing: underlying phenomena and real-time monitoring. <i>Nanotechnology</i> , 1998, 9, 360-364.	1.3	134
17	A high-resolution electron energy loss spectroscopy study of the surface structure of benzene adsorbed on the rhodium(111) crystal face. <i>The Journal of Physical Chemistry</i> , 1984, 88, 1988-1996.	2.9	133
18	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

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19	Identification of Adsorbed Phenyl (C ₆ H ₅) Groups on Metal Surfaces: Electron-Induced Dissociation of Benzene on Au(111). <i>Journal of Physical Chemistry B</i> , 2001, 105, 8387-8394.	1.2	128
20	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
21	Intraparticle Reduction of Arsenite (As(III)) by Nanoscale Zerovalent Iron (nZVI) Investigated with In Situ X-ray Absorption Spectroscopy. <i>Environmental Science & Technology</i> , 2012, 46, 7018-7026.	4.6	127
22	H ₂ S/Cu(111): A model study of sulfur poisoning of water-gas shift catalysts. <i>Surface Science</i> , 1987, 183, 100-112.	0.8	126
23	Surface structure determination of Sn deposited on Pt(111) by low energy alkali ion scattering. <i>Surface Science</i> , 1991, 254, 45-57.	0.8	126
24	Ultrathin films of Pd on Au(111): Evidence for surface alloy formation. <i>Physical Review B</i> , 1992, 46, 7846-7856.	1.1	125
25	Nanofiltration of natural organic matter with H ₂ O ₂ /UV pretreatment: fouling mitigation and membrane surface characterization. <i>Journal of Membrane Science</i> , 2004, 241, 143-160.	4.1	125
26	Adsorption of nitrogen dioxide and nitric oxide on Pd(III). <i>Surface Science</i> , 1991, 243, 83-95.	0.8	122
27	Hydrogenation and H, D Exchange studies of ethylidyne (CCH ₃) on Rh(111) crystal surfaces at 1 atm pressure using high resolution electron energy loss spectroscopy. <i>Surface Science</i> , 1984, 146, 211-228.	0.8	119
28	The molecular adsorption of nitrogen dioxide on Pt(111) studied by temperature programmed desorption and vibrational spectroscopy. <i>Surface Science</i> , 1987, 184, 57-74.	0.8	118
29	Titanium incorporation into hematite photoelectrodes: theoretical considerations and experimental observations. <i>Energy and Environmental Science</i> , 2014, 7, 3100-3121.	15.6	118
30	The molecular adsorption of NO ₂ and the formation of N ₂ O ₃ on Au(111). <i>Surface Science</i> , 1989, 213, 137-156.	0.8	116
31	Chemisorption of high coverages of atomic oxygen on the Pt(111), Pd(111), and Au(111) surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1990, 8, 2585-2590.	0.9	115
32	Chlorine promotion of selective ethylene oxidation over Ag(110): Kinetics and mechanism. <i>Journal of Catalysis</i> , 1985, 92, 272-283.	3.1	113
33	Adsorption of cyclohexane and benzene on ordered tin/platinum (111) surface alloys. <i>The Journal of Physical Chemistry</i> , 1994, 98, 585-593.	2.9	109
34	Minimal architecture zinc-bromine battery for low cost electrochemical energy storage. <i>Energy and Environmental Science</i> , 2017, 10, 114-120.	15.6	107
35	Chemisorption of ethylene, propylene and isobutylene on ordered Sn/Pt(111) surface alloys. <i>Surface Science</i> , 1997, 385, 37-59.	0.8	104
36	Chemisorption of atomic hydrogen on clean and Cl-covered Ag(111). <i>Surface Science</i> , 1989, 218, 201-210.	0.8	101

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37	Fabrication of Nanostructures by Hydroxylamine Seeding of Gold Nanoparticle Templates. <i>Langmuir</i> , 2001, 17, 1713-1718.	1.6	98
38	Oxidation of Pt(111) by ozone (O ₃) under UHV conditions. <i>Surface Science</i> , 1999, 419, 79-88.	0.8	96
39	Determination of the reaction order and activation energy for desorption kinetics using TPD spectra: Application to D ₂ desorption from Ag(111). <i>Surface Science</i> , 1990, 233, 65-73.	0.8	95
40	A method for estimating surface reaction energetics: Application to the mechanism of ethylene decomposition on Pt(111). <i>Surface Science</i> , 1990, 226, 339-357.	0.8	95
41	Thermal decomposition of benzene on the rhodium(111) crystal surface. <i>The Journal of Physical Chemistry</i> , 1986, 90, 2949-2956.	2.9	93
42	Adsorption of methanol, ethanol and water on well-characterized Pt _{1-x} Sn surface alloys. <i>Surface Science</i> , 1998, 395, 248-259.	0.8	93
43	Chemisorption of ethylene on ordered Sn/Pt(111) surface alloys. <i>Surface Science</i> , 1989, 223, 449-464.	0.8	92
44	Adsorption and reaction of acetaldehyde on Pt(111) and Sn/Pt(111) surface alloys. <i>Surface Science</i> , 2003, 538, 147-159.	0.8	91
45	IRAS Studies of NO ₂ , N ₂ O ₃ , and N ₂ O ₄ Adsorbed on Au(111) Surfaces and Reactions with Coadsorbed H ₂ O. <i>Journal of Physical Chemistry A</i> , 1998, 102, 8573-8579.	1.1	90
46	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
47	Building and Manipulating Three-Dimensional and Linked Two-Dimensional Structures of Nanoparticles Using Scanning Force Microscopy. <i>Langmuir</i> , 1998, 14, 6613-6616.	1.6	86
48	Oxygen adsorption and oxidation reactions on Au(211) surfaces: Exposures using O ₂ at high pressures and ozone (O ₃) in UHV. <i>Surface Science</i> , 2006, 600, 4622-4632.	0.8	86
49	Electronic effects of surface oxygen on the bonding of NO to Pt(111). <i>Surface Science</i> , 1989, 219, 467-489.	0.8	84
50	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
51	Direct and controlled manipulation of nanometer-sized particles using the non-contact atomic force microscope. <i>Nanotechnology</i> , 1998, 9, 237-245.	1.3	81
52	Imaging and Manipulation of Gold Nanorods with an Atomic Force Microscope. <i>Journal of Physical Chemistry B</i> , 2002, 106, 231-234.	1.2	81
53	A new catalysis for benzene production from acetylene under ultrahigh-vacuum conditions: tin/platinum(111) surface alloys. <i>Journal of the American Chemical Society</i> , 1993, 115, 751-755.	6.6	80
54	Bonding and thermal decomposition of propylene, propadiene, and methylacetylene on the rhodium(111) single-crystal surface. <i>The Journal of Physical Chemistry</i> , 1987, 91, 1493-1502.	2.9	78

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55	Thermochemistry of the selective dehydrogenation of cyclohexane to benzene on Pt surfaces. <i>Journal of Molecular Catalysis A</i> , 1998, 131, 39-53.	4.8	76
56	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
57	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
58	Dehydrogenation of cyclohexene on ordered Sn/Pt(111) surface alloys. <i>Surface Science</i> , 1994, 304, 249-266.	0.8	71
59	The adsorption of CO on Pd thin films on Ta(110). <i>Surface Science</i> , 1990, 231, 325-332.	0.8	68
60	Interaction of Cl ₂ with the Au(111) surface in the temperature range of 120 to 1000 K. <i>Applied Surface Science</i> , 1993, 64, 235-249.	3.1	67
61	Activation of Tungsten Carbide Catalysts by Use of an Oxygen Plasma Pretreatment. <i>ACS Catalysis</i> , 2012, 2, 765-769.	5.5	67
62	Low temperature coadsorption of hydrogen and carbon monoxide on Ni(100). <i>Surface Science</i> , 1983, 125, 739-761.	0.8	64
63	Deuterium dissociation on ordered Sn/Pt(111) surface alloys. <i>Journal of Chemical Physics</i> , 1998, 109, 3255-3264.	1.2	64
64	Adsorption and desorption behavior of n-butane and isobutane on Pt(111) and Sn/Pt(111) surface alloys. <i>Langmuir</i> , 1994, 10, 166-171.	1.6	63
65	Hydrogenation of Crotonaldehyde over Sn/Pt(111) Alloy Model Catalysts. <i>Journal of Catalysis</i> , 2002, 205, 278-288.	3.1	63
66	Manipulation of nanoparticles using dynamic force microscopy: simulation and experiments. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 67, 265-271.	1.1	62
67	Catalytic oxidation of HCN over a 0.5% Pt/Al ₂ O ₃ catalyst. <i>Applied Catalysis B: Environmental</i> , 2006, 65, 282-290.	10.8	61
68	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
69	Desorption energies of linear and cyclic alkanes on surfaces: anomalous scaling with length. <i>Surface Science</i> , 2004, 554, 125-140.	0.8	60
70	Electron-induced dissociation of hydrocarbon multilayers. <i>Surface Science</i> , 1993, 292, L803-L809.	0.8	58
71	Adsorption and reaction of CH ₃ COOH and CD ₃ COOD on the MgO(100) surface: A Fourier transform infrared and temperature programmed desorption study. <i>Journal of Chemical Physics</i> , 1995, 102, 8158-8166.	1.2	58
72	Coadsorption of nitrogen dioxide and oxygen on platinum(111). <i>Langmuir</i> , 1988, 4, 240-246.	1.6	57

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73	Electronic and CO chemisorption properties of ultrathin Pd films vapor deposited on Au(111). Physical Review B, 1994, 49, 8367-8376.	1.1	57
74	Manipulation of gold nanoparticles in liquid environments using scanning force microscopy. Ultramicroscopy, 2000, 82, 135-139.	0.8	57
75	Chemisorbed Oxygen on Au(111) Produced by a Novel Route: Reaction in Condensed Films of NO ₂ + H ₂ O. Journal of Physical Chemistry B, 1998, 102, 4693-4696.	1.2	56
76	Fundamental studies of titanium oxide/Pt(100) interfaces. Surface Science, 2004, 572, 127-145.	0.8	56
77	The interaction of coadsorbed hydrogen and carbon monoxide on Ni(100). Surface Science, 1981, 107, L367-L373.	0.8	54
78	Vibrational and electronic properties of monolayer and multilayer fullerene C ₆₀ films on rhodium (111). The Journal of Physical Chemistry, 1993, 97, 10076-10082.	2.9	54
79	Nanorobotic assembly of two-dimensional structures. , 0, , .		54
80	Selective Dehydrogenation of 1,3-Cyclohexadiene on Ordered Sn/Pt(111) Surface Alloys. Journal of the American Chemical Society, 1996, 118, 2708-2717.	6.6	53
81	Robotic nanomanipulation with a scanning probe microscope in a networked computing environment. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1997, 15, 1577.	1.6	53
82	X-Ray photoelectron study of the reaction of water with cerium. Journal of Electron Spectroscopy and Related Phenomena, 1980, 21, 31-46.	0.8	51
83	A model study of alkali promotion of water-gas shift catalysts: Cs/Cu(111). Surface Science, 1987, 186, 393-411.	0.8	51
84	Influence of alloyed Sn atoms on the chemisorption properties of Ni(111) as probed by RAIRS and TPD studies of CO adsorption. Surface Science, 1995, 327, 38-46.	0.8	51
85	Reactions of N ₂ O ₄ with ice at low temperatures on the Au(111) surface. Surface Science, 1999, 436, 15-28.	0.8	50
86	Stable synthesis of few-layered boron nitride nanotubes by anodic arc discharge. Scientific Reports, 2017, 7, 3075.	1.6	50
87	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
88	Reactivity of Oxygen Adatoms on the Au(111) Surface. ACS Symposium Series, 1993, , 90-109.	0.5	49
89	Coadsorption of ethylene and potassium on platinum(111). 2. Influence of potassium on the decomposition of ethylene. The Journal of Physical Chemistry, 1990, 94, 1489-1496.	2.9	47
90	Temperature-Programmed Desorption Investigation of the Adsorption and Reaction of Butene Isomers on Pt(111) and Ordered Pt-Sn Surface Alloys. Journal of Physical Chemistry B, 1997, 101, 2895-2906.	1.2	47

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91	Adsorption of iodobenzene (C ₆ H ₅ I) on Au(111) surfaces and production of biphenyl (C ₆ H ₅ –C ₆ H ₅). Surface Science, 2001, 490, 265-273.	0.8	47
92	Oxygen chemisorption on a stepped Ru (√4001) crystal. Journal of Chemical Physics, 1979, 71, 3352-3354.	1.2	46
93	Trajectory-dependent neutralization of low energy Li ⁺ scattered from alkali adsorbates on Ni(111). Physical Review Letters, 1993, 70, 2649-2652.	2.9	45
94	A LEED, TPD and HREELS investigation of NO adsorption on Sn/Pt(111) surface alloys. Surface Science, 1994, 310, 198-208.	0.8	45
95	Linking and Manipulation of Gold Multinanoparticle Structures Using Dithiols and Scanning Force Microscopy. Journal of Physical Chemistry B, 1999, 103, 3647-3650.	1.2	45
96	Electronic contrast in scanning tunneling microscopy of Sn–Pt(111) surface alloys. Surface Science, 2000, 466, L821-L826.	0.8	45
97	Overview of NSTX Upgrade initial results and modelling highlights. Nuclear Fusion, 2017, 57, 102006.	1.6	45
98	Oxidation of ordered Pt–Sn surface alloys by O ₂ . Surface Science, 2001, 492, 106-114.	0.8	44
99	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
100	Surface alloy formation and the structure of c(2√2)–Sn/Ni(100) determined by low-energy alkali-ion scattering. Physical Review B, 1994, 49, 2813-2820.	1.1	43
101	Controlling Acetylene Adsorption and Reactions on Pt–Sn Catalytic Surfaces. ACS Catalysis, 2013, 3, 1149-1153.	5.5	43
102	Polymerization and decomposition of C ₆₀ on Pt(111) surfaces. Physical Review B, 1999, 59, 8283-8291.	1.1	42
103	Dissolution of the barite (001) surface by the chelating agent DTPA as studied with non-contact atomic force microscopy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 160, 217-227.	2.3	42
104	Transient kinetic studies of the catalytic reduction of NO by CO on platinum. Journal of Catalysis, 1989, 119, 238-248.	3.1	41
105	Charge transfer from potassium into the t _{1g} band of C ₆₀ . Physical Review Letters, 1994, 72, 140-143.	2.9	41
106	Fe deposition on Pt(): a route to Fe-containing Pt–Fe alloy surfaces. Surface Science, 2002, 513, L391-L396.	0.8	41
107	Epitaxial growth of tin oxide on Pt(111): Structure and properties of wetting layers and SnO ₂ crystallites. Physical Review B, 2004, 69, .	1.1	41
108	Chemisorption of CO on ultrathin films of Pd on Mo(100). Surface Science, 1992, 275, 209-222.	0.8	40

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109	Structural studies of surfaces: conditions for alloy formation. Surface Science, 1995, 330, 193-206.	0.8	40
110	Plasma facing surface composition during NSTX Li experiments. Journal of Nuclear Materials, 2013, 438, S647-S650.	1.3	40
111	Geometric Requirements for Hydrocarbon Catalytic Sites on Platinum Surfaces. Angewandte Chemie - International Edition, 2014, 53, 3641-3644.	7.2	39
112	Observation of Surface-Bound Negatively Charged Hydride and Hydroxide on GaP(110) in H ₂ O Environments. Journal of Physical Chemistry C, 2015, 119, 17762-17772.	1.5	39
113	WO ₃ -Fe ₂ O ₃ composite photoelectrodes with low onset potential for solar water oxidation. Physical Chemistry Chemical Physics, 2014, 16, 1327-1332.	1.3	38
114	Highly Stable Pt@Au@Ru/C Catalyst Nanoparticles for Methanol Electro-oxidation. Journal of Physical Chemistry C, 2013, 117, 1457-1467.	1.5	36
115	The adsorption and decomposition of ethylene on Ni(100). Chemical Physics Letters, 1982, 88, 236-242.	1.2	35
116	Adsorption of nitrogen dioxide on polycrystalline gold. Catalysis Letters, 1990, 6, 163-172.	1.4	35
117	Hydrogenation of CO to Methanol on Ni(110) through Subsurface Hydrogen. Journal of the American Chemical Society, 2017, 139, 17582-17589.	6.6	35
118	Chemisorption of ethylene and acetylene on ultrathin palladium films on molybdenum(100). The Journal of Physical Chemistry, 1993, 97, 5327-5332.	2.9	34
119	Energy transport in metal nanoparticle plasmon waveguides. Materials Research Society Symposia Proceedings, 2003, 777, 711.	0.1	34
120	Resonant photon-stimulated desorption of ions from oxidized cerium. Physical Review B, 1982, 25, 5551-5554.	1.1	33
121	Studies of the ensemble size requirements for ethylene adsorption and decomposition on platinum(111): ethylene and bismuth coadsorption. Langmuir, 1988, 4, 1113-1118.	1.6	33
122	Probing the modifier precursor state: adsorption of CO on Sn/Pt(111) surface alloys. Surface Science, 1994, 304, L505-L511.	0.8	33
123	Role of Surface Iron in Enhanced Activity for the Oxygen Reduction Reaction on a Pd ₃ Fe(111) Single-Crystal Alloy. Angewandte Chemie - International Edition, 2011, 50, 10182-10185.	7.2	33
124	A multitechnique surface analysis study of the adsorption of H ₂ , CO and O ₂ on surfaces. Surface Science, 1989, 207, 274-296.	0.8	32
125	Effects of K, O, and H adatoms on the adsorption kinetics of CO on Pt(111). Surface Science, 1992, 273, 273-284.	0.8	32
126	Probing the structures of bimetallic Sn/Rh(111) surfaces: Alkali-ion scattering and x-ray photoelectron diffraction studies. Physical Review B, 1997, 56, 15982-15994.	1.1	32

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127	Structure of monolayer tin oxide films on Pt(111) formed using NO ₂ as an efficient oxidant. Physical Review B, 2001, 64, .	1.1	32
128	Hydrogen-Bonded Cyclic Water Clusters Nucleated on an Oxide Surface. Journal of the American Chemical Society, 2014, 136, 13283-13288.	6.6	32
129	Hydrogen-induced CO displacement from the Pt(111) surface: an isothermal kinetic study. Surface Science, 1991, 258, 75-81.	0.8	31
130	Fundamental studies of titanium oxide-Pt(100) interfaces II. Influence of oxidation and reduction reactions on the surface structure of TiO _x films on Pt(100). Surface Science, 2004, 572, 146-161.	0.8	31
131	of Plasmas, 2015, 22, 056112.	0.7	31
132	C(KVV) Auger line shape of chemisorbed CO. Journal of Chemical Physics, 1982, 77, 2665-2669.	1.2	30
133	The adsorption of nitric oxide and nitrogen dioxide on polycrystalline platinum. Surface Science, 1989, 223, 82-100.	0.8	30
134	Influence of potassium on the adsorption of hydrogen on platinum(III). The Journal of Physical Chemistry, 1992, 96, 7056-7063.	2.9	30
135	Incorporation of oxygen chemisorbed on Ru(001). Applications of Surface Science, 1980, 5, 296-312.	1.0	29
136	A multitechnique surface science examination of Sn deposition on Pt(100). Surface Science, 1991, 250, 123-138.	0.8	29
137	Superfulleride formation and electronic properties of C ₆₀ on K/Rh(111) surfaces. Chemical Physics Letters, 1994, 223, 69-75.	1.2	29
138	Manipulation of nanoscale components with the AFM: principles and applications. , 0, , .		29
139	IRAS studies of the orientation of acetone molecules in monolayer and multilayer films on Au() surfaces. Surface Science, 2002, 498, 53-60.	0.8	29
140	Evidence for slow oxygen exchange between multiple adsorption sites at high oxygen coverages on Pt(). Surface Science, 2002, 498, L91-L96.	0.8	29
141	Effects of temperature and surface contamination on D retention in ultrathin Li films on TZM. Journal of Nuclear Materials, 2015, 463, 1177-1180.	1.3	29
142	Surface science studies of the water-gas shift reaction on a model Cu(111) catalyst. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1987, 5, 810-813.	0.9	28
143	A vibrational study of borazine adsorbed on Pt(111) and Au(111) surfaces. Surface Science, 1991, 254, 29-44.	0.8	28
144	TPD, HREELS and UPS study of the adsorption and reaction of methyl nitrite (CH ₃ ONO) on Pt(111). Surface Science, 1998, 410, 214-227.	0.8	28

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145	Compatibility of lithium plasma-facing surfaces with high edge temperatures in the Lithium Tokamak Experiment. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	28
146	Spectroscopic evidence for carbon-carbon bonding in "carbide" layers on metals. <i>Surface Science</i> , 1991, 248, 104-118.	0.8	27
147	Probing the reactivity of C6-hydrocarbons on Au surfaces: cyclohexane, cyclohexyl and cyclohexene on Au(.). <i>Surface Science</i> , 2002, 498, 61-73.	0.8	27
148	A temperature programmed desorption study of the reaction of methylacetylene on Pt(111) and Sn/Pt(111) surface alloys. <i>Surface Science</i> , 1998, 410, 200-213.	0.8	26
149	Adsorption of thermal D atoms on Sn/Pt(111) surface alloys. <i>Surface Science</i> , 1998, 414, 330-340.	0.8	26
150	Hydrogenation of 1,3-butadiene on two ordered Sn/Pt(111) surface alloys. <i>Journal of Catalysis</i> , 2005, 234, 24-32.	3.1	26
151	"Synthesis-on" and "synthesis-off" modes of carbon arc operation during synthesis of carbon nanotubes. <i>Carbon</i> , 2017, 125, 336-343.	5.4	26
152	Hydrogen surface segregation on Si(111) by photon-stimulated desorption at the SiKedge. <i>Physical Review B</i> , 1982, 26, 2292-2295.	1.1	25
153	Oxidation of Ordered Sn/Pt(111) Surface Alloys and Thermal Stability of the Oxides Formed. <i>Journal of Physical Chemistry B</i> , 1999, 103, 1532-1541.	1.2	25
154	Hydrogenation of cyclohexanone on Pt-Sn surface alloys. <i>Journal of Catalysis</i> , 2004, 222, 285-292.	3.1	25
155	<i>In Situ</i> Identification of NNH and N ₂ H ₂ by Using Molecular-Beam Mass Spectrometry in Plasma-Assisted Catalysis for NH ₃ Synthesis. <i>ACS Energy Letters</i> , 2022, 7, 53-58.	8.8	25
156	Vibrational spectroscopy using HREELS of benzene adsorbed on the Rh(111) crystal surface. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1983, 29, 287-292.	0.8	24
157	Dehydrogenation of Methylcyclohexane on Pt(111). <i>The Journal of Physical Chemistry</i> , 1995, 99, 16670-16675.	2.9	24
158	Hydrogen-induced low temperature CO displacement from the Pt(111) surface. <i>Surface Science</i> , 1990, 236, L372-L376.	0.8	23
159	Low energy electron induced chemistry: CH ₃ Cl on Ag(111). <i>Surface Science</i> , 1992, 271, 427-451.	0.8	23
160	CO chemisorption properties of ultrathin Pd films on Ta(110). <i>Surface Science</i> , 1993, 284, 139-153.	0.8	23
161	Acetylene Chemisorption on Sn/Pt(100) Alloys. <i>Journal of Physical Chemistry B</i> , 2001, 105, 3786-3796.	1.2	23
162	Adsorption kinetics on chemically modified or bimetallic surfaces. <i>Journal of Chemical Physics</i> , 1994, 100, 664-670.	1.2	22

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