Bruce E Koel

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326
papers

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60
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346
ext. papers

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ext. citations

4.2
avg, IF

L-index

#	Paper	IF	Citations
326	Local detection of electromagnetic energy transport below the diffraction limit in metal nanoparticle plasmon waveguides. <i>Nature Materials</i> , 2003 , 2, 229-32	27	1960
325	Adsorption of oxygen on Au(111) by exposure to ozone. Surface Science, 1998, 410, 270-282	1.8	290
324	Iron nanoparticles for environmental clean-up: recent developments and future outlook. <i>Environmental Sciences: Processes and Impacts</i> , 2013 , 15, 63-77	4.3	282
323	Study of high coverages of atomic oxygen on the Pt(111) surface. Surface Science, 1989 , 217, 489-510	1.8	253
322	X-Ray photoelectron study of the reaction of oxygen with cerium. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1980 , 21, 17-30	1.7	237
321	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, 12755-62	16.4	202
320	Simultaneous Oxidation and Reduction of Arsenic by Zero-Valent Iron Nanoparticles: Understanding the Significance of the CoreBhell Structure. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14591-14594	3.8	190
319	Determination of the oxide layer thickness in core-shell zerovalent iron nanoparticles. <i>Langmuir</i> , 2008 , 24, 4329-34	4	184
318	Facet-dependent activity and stability of CoDIhanocrystals towards the oxygen evolution reaction. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 29387-93	3.6	158
317	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		145
316	Low temperature coadsorption of hydrogen and carbon monoxide on Ni(100). <i>Surface Science</i> , 1983 , 125, 709-738	1.8	139
315	Interaction of oxygen with Pd(111): High effective O2 pressure conditions by using nitrogen dioxide. <i>Surface Science</i> , 1990 , 232, 275-285	1.8	126
314	Coadsorption of ethylene and potassium on platinum (111). 1. Formation of a .pibonded state of ethylene. <i>The Journal of Physical Chemistry</i> , 1988 , 92, 2862-2870		124
313	Surface structure determination of Sn deposited on Pt(111) by low energy alkali ion scattering. <i>Surface Science</i> , 1991 , 254, 45-57	1.8	122
312	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		121
311	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	13	120
310	Identification of Adsorbed Phenyl (C6H5) Groups on Metal Surfaces: Electron-Induced Dissociation of Benzene on Au(111). <i>Journal of Physical Chemistry B</i> , 2001 , 105, 8387-8394	3.4	119

309	Ultrathin films of Pd on Au(111): Evidence for surface alloy formation. <i>Physical Review B</i> , 1992 , 46, 7846	5-3.856	117
308	Nanoparticle manipulation by mechanical pushing: underlying phenomena and real-time monitoring. <i>Nanotechnology</i> , 1998 , 9, 360-364	3.4	113
307	Adsorption of nitrogen dioxide and nitric oxide on Pd(lll). Surface Science, 1991, 243, 83-95	1.8	113
306	Nanofiltration of natural organic matter with H2O2/UV pretreatment: fouling mitigation and membrane surface characterization. <i>Journal of Membrane Science</i> , 2004 , 241, 143-160	9.6	112
305	Chemisorption of high coverages of atomic oxygen on the Pt(111), Pd(111), and Au(111) surfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1990, 8, 2585-2590	2.9	112
304	Hydrogenation and H, D Exchange studies of ethylidyne (CCH3) on Rh(111) crystal surfaces at 1 atm pressure using high resolution electron energy loss spectroscopy. <i>Surface Science</i> , 1984 , 146, 211-228	1.8	112
303	The molecular adsorption of NO2 and the formation of N2O3 on Au(111). <i>Surface Science</i> , 1989 , 213, 137-156	1.8	110
302	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	1.8	108
301	Reversible Structural Evolution of NiCoOxHy during the Oxygen Evolution Reaction and Identification of the Catalytically Active Phase. <i>ACS Catalysis</i> , 2018 , 8, 1238-1247	13.1	107
300	H2S/Cu(111): A model study of sulfur poisoning of water-gas shift catalysts. <i>Surface Science</i> , 1987 , 183, 100-112	1.8	106
299	Titanium incorporation into hematite photoelectrodes: theoretical considerations and experimental observations. <i>Energy and Environmental Science</i> , 2014 , 7, 3100-3121	35.4	105
298	Intraparticle reduction of arsenite (As(III)) by nanoscale zerovalent iron (nZVI) investigated with In Situ X-ray absorption spectroscopy. <i>Environmental Science & Environmental Science & Environmen</i>	10.3	102
297	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	3.8	102
296	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, 12544-55	3.6	99
295	Chemisorption of atomic hydrogen on clean and Cl-covered Ag(111). Surface Science, 1989, 218, 201-21	0 1.8	97
294	Adsorption of cyclohexane and benzene on ordered tin/platinum (111) surface alloys. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 585-593		96
293	Determination of the reaction order and activation energy for desorption kinetics using TPD spectra: Application to D2 desorption from Ag(111). <i>Surface Science</i> , 1990 , 233, 65-73	1.8	94
292	Chlorine promotion of selective ethylene oxidation over Ag(110): Kinetics and mechanism. <i>Journal of Catalysis</i> , 1985 , 92, 272-283	7.3	91

291	Fabrication of Nanostructures by Hydroxylamine Seeding of Gold Nanoparticle Templates. <i>Langmuir</i> , 2001 , 17, 1713-1718	4	90
290	Oxidation of Pt(111) by ozone (O3) under UHV conditions. <i>Surface Science</i> , 1999 , 419, 79-88	1.8	89
289	Chemisorption of ethylene, propylene and isobutylene on ordered Sn/Pt(111) surface alloys. <i>Surface Science</i> , 1997 , 385, 37-59	1.8	85
288	Adsorption of methanol, ethanol and water on well-characterized Pt?Sn surface alloys. <i>Surface Science</i> , 1998 , 395, 248-259	1.8	84
287	IRAS Studies of NO2, N2O3, and N2O4 Adsorbed on Au(111) Surfaces and Reactions with Coadsorbed H2O. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 8573-8579	2.8	84
286	Thermal decomposition of benzene on the rhodium(111) crystal surface. <i>The Journal of Physical Chemistry</i> , 1986 , 90, 2949-2956		84
285	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	1.8	83
284	CO adsorption and reaction on clean and oxygen-covered Au(211) surfaces. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 17512-7	3.4	81
283	Electronic effects of surface oxygen on the bonding of NO to Pt(111). Surface Science, 1989, 219, 467-4	1 89 .8	80
282	Building and Manipulating Three-Dimensional and Linked Two-Dimensional Structures of Nanoparticles Using Scanning Force Microscopy. <i>Langmuir</i> , 1998 , 14, 6613-6616	4	77
281	Chemisorption of ethylene on ordered Sn/Pt(111) surface alloys. Surface Science, 1989, 223, 449-464	1.8	77
280	Oxygen adsorption and oxidation reactions on Au(2 1 1) surfaces: Exposures using O2 at high pressures and ozone (O3) in UHV. <i>Surface Science</i> , 2006 , 600, 4622-4632	1.8	76
279	Adsorption and reaction of acetaldehyde on Pt(111) and Sn/Pt(111) surface alloys. <i>Surface Science</i> , 2003 , 538, 147-159	1.8	76
278	Imaging and Manipulation of Gold Nanorods with an Atomic Force Microscope. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 231-234	3.4	74
277	Direct and controlled manipulation of nanometer-sized particles using the non-contact atomic force microscope. <i>Nanotechnology</i> , 1998 , 9, 237-245	3.4	72
276	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	16.4	72
275	Electrochemical and spectroscopic study of novel Cu and Fe-based catalysts for bxygen reduction in alkaline media. <i>Journal of Power Sources</i> , 2012 , 213, 169-179	8.9	70
274	Minimal architecture zincBromine battery for low cost electrochemical energy storage. <i>Energy and Environmental Science</i> , 2017 , 10, 114-120	35.4	69

273	The adsorption of CO on Pd thin films on Ta(110). Surface Science, 1990, 231, 325-332	1.8	67
272	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		67
271	Thermochemistry of the selective dehydrogenation of cyclohexane to benzene on Pt surfaces. Journal of Molecular Catalysis A, 1998, 131, 39-53		66
270	Low temperature coadsorption of hydrogen and carbon monoxide on Ni(100). <i>Surface Science</i> , 1983 , 125, 739-761	1.8	63
269	A novel CuFe-based catalyst for the oxygen reduction reaction in alkaline media. <i>Journal of Power Sources</i> , 2011 , 196, 7404-7410	8.9	62
268	Dehydrogenation of cyclohexene on ordered Sn/Pt(111) surface alloys. Surface Science, 1994 , 304, 249-	26.6	62
267	Interaction of Cl2 with the Au(111) surface in the temperature range of 120 to 1000 K. <i>Applied Surface Science</i> , 1993 , 64, 235-249	6.7	62
266	Deuterium dissociation on ordered Sn/Pt(111) surface alloys. <i>Journal of Chemical Physics</i> , 1998 , 109, 32.	5 <u>5</u> .326	5 4 59
265	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	4	58
264	Activation of Tungsten Carbide Catalysts by Use of an Oxygen Plasma Pretreatment. <i>ACS Catalysis</i> , 2012 , 2, 765-769	13.1	57
263	Desorption energies of linear and cyclic alkanes on surfaces: anomalous scaling with length. <i>Surface Science</i> , 2004 , 554, 125-140	1.8	56
262	Electron-induced dissociation of hydrocarbon multilayers. <i>Surface Science</i> , 1993 , 292, L803-L809	1.8	54
261	Coadsorption of nitrogen dioxide and oxygen on platinum(111). Langmuir, 1988, 4, 240-246	4	54
2 60	Manipulation of nanoparticles using dynamic force microscopy: simulation and experiments. <i>Applied Physics A: Materials Science and Processing</i> , 1998 , 67, 265-271	2.6	53
259	Catalytic oxidation of HCN over a 0.5% Pt/Al2O3 catalyst. <i>Applied Catalysis B: Environmental</i> , 2006 , 65, 282-290	21.8	53
258	Fundamental studies of titanium oxide P t(1 0 0) interfaces: I. Stable high temperature structures formed by annealing TiOx films on Pt(1 0 0). <i>Surface Science</i> , 2004 , 572, 127-145	1.8	53
257	Manipulation of gold nanoparticles in liquid environments using scanning force microscopy. <i>Ultramicroscopy</i> , 2000 , 82, 135-9	3.1	53
256	The interaction of coadsorbed hydrogen and carbon monoxide on Ni(100). <i>Surface Science</i> , 1981 , 107, L367-L373	1.8	53

255	Adsorption and reaction of CH3COOH and CD3COOD on the MgO(100) surface: A Fourier transform infrared and temperature programmed desorption study. <i>Journal of Chemical Physics</i> , 1995 , 102, 8158-8166	3.9	52
254	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, 6995-7	5.8	50
253	Hydrogenation of Crotonaldehyde over Sn/Pt(111) Alloy Model Catalysts. <i>Journal of Catalysis</i> , 2002 , 205, 278-288	7.3	50
252	Chemisorbed Oxygen on Au(111) Produced by a Novel Route: Reaction in Condensed Films of NO2 + H2O. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 4693-4696	3.4	50
251	Vibrational and electronic properties of monolayer and multilayer fullerene C60 films on rhodium (111). <i>The Journal of Physical Chemistry</i> , 1993 , 97, 10076-10082		50
250	Electronic and CO chemisorption properties of ultrathin Pd films vapor deposited on Au(111). <i>Physical Review B</i> , 1994 , 49, 8367-8376	3.3	49
249	Reactivity of Oxygen Adatoms on the Au(111) Surface. ACS Symposium Series, 1993, 90-109	0.4	49
248	Reactions of N2O4 with ice at low temperatures on the Au(111) surface. Surface Science, 1999 , 436, 15-2	28 .8	47
247	X-Ray photoelectron study of the reaction of water with cerium. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1980 , 21, 31-46	1.7	47
246	Robotic nanomanipulation with a scanning probe microscope in a networked computing environment. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1997 , 15, 1577		46
245	Selective Dehydrogenation of 1,3-Cyclohexadiene on Ordered Sn/Pt(111) Surface Alloys. <i>Journal of the American Chemical Society</i> , 1996 , 118, 2708-2717	16.4	46
244	Trajectory-dependent neutralization of low energy Li+ scattered from alkali adsorbates on Ni(111). <i>Physical Review Letters</i> , 1993 , 70, 2649-2652	7.4	45
243	Linking and Manipulation of Gold Multinanoparticle Structures Using Dithiols and Scanning Force Microscopy. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 3647-3650	3.4	44
242	Oxygen chemisorption on a stepped Ru (~001) crystal. <i>Journal of Chemical Physics</i> , 1979 , 71, 3352-3354	3.9	43
241	Electronic contrast in scanning tunneling microscopy of Sn B t(111) surface alloys. <i>Surface Science</i> , 2000 , 466, L821-L826	1.8	42
240	Adsorption of iodobenzene (C6H5I) on Au(111) surfaces and production of biphenyl (C6H5 £ 6H5). <i>Surface Science</i> , 2001 , 490, 265-273	1.8	42
239	Influence of alloyed Sn atoms on the chemisorption properties of Ni(111) as probed by RAIRS and TPD studies of CO adsorption. <i>Surface Science</i> , 1995 , 327, 38-46	1.8	42
238	Temperature-Programmed Desorption Investigation of the Adsorption and Reaction of Butene Isomers on Pt(111) and Ordered PtBn Surface Alloys. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 2895-29	98 6	41

237	Surface alloy formation and the structure of $c(2 \times 2)$ -Sn/Ni(100) determined by low-energy alkali-ion scattering. <i>Physical Review B</i> , 1994 , 49, 2813-2820	3.3	41
236	Fe deposition on Pt(): a route to Fe-containing PtHe alloy surfaces. Surface Science, 2002, 513, L391-L39	6 1.8	40
235	Oxidation of ordered PtBn surface alloys by O2. Surface Science, 2001, 492, 106-114	1.8	39
234	Charge transfer from potassium into the t1g band of C60. <i>Physical Review Letters</i> , 1994 , 72, 140-143	7.4	39
233	A LEED, TPD and HREELS investigation of NO adsorption on Sn/Pt(111) surface alloys. <i>Surface Science</i> , 1994 , 310, 198-208	1.8	39
232	A model study of alkali promotion of water-gas shift catalysts: Cs/Cu(111). <i>Surface Science</i> , 1987 , 186, 393-411	1.8	38
231	Overview of NSTX Upgrade initial results and modelling highlights. <i>Nuclear Fusion</i> , 2017 , 57, 102006	3.3	37
230	Polymerization and decomposition of C60 on Pt(111) surfaces. <i>Physical Review B</i> , 1999 , 59, 8283-8291	3.3	37
229	Chemisorption of CO on ultrathin films of Pd on Mo(100). Surface Science, 1992, 275, 209-222	1.8	37
228	Plasma facing surface composition during NSTX Li experiments. <i>Journal of Nuclear Materials</i> , 2013 , 438, S647-S650	3.3	36
227	Observation of Surface-Bound Negatively Charged Hydride and Hydroxide on GaP(110) in H2O Environments. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17762-17772	3.8	35
226	WO3-Fe2O3 composite photoelectrodes with low onset potential for solar water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 1327-32	3.6	33
225	Nanorobotic assembly of two-dimensional structures		33
224	Structural studies of surfaces: conditions for alloy formation. <i>Surface Science</i> , 1995 , 330, 193-206	1.8	33
223	Coadsorption of ethylene and potassium on platinum (111). 2. Influence of potassium on the decomposition of ethylene. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 1489-1496		33
222	Adsorption of nitrogen dioxide on polycrystalline gold. <i>Catalysis Letters</i> , 1990 , 6, 163-172	2.8	33
221	Stable synthesis of few-layered boron nitride nanotubes by anodic arc discharge. <i>Scientific Reports</i> , 2017 , 7, 3075	4.9	32
220	Highly Stable Pt[email[protected]/C Catalyst Nanoparticles for Methanol Electro-oxidation. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1457-1467	3.8	32

Controlling Acetylene Adsorption and Reactions on PtBn Catalytic Surfaces. ACS Catalysis, 2013, 3, 1149-14.53 32 219 Probing the modifier precursor state: adsorption of CO on Sn/Pt(111) surface alloys. Surface 218 1.8 Science, 1994, 304, L505-L511 Transient kinetic studies of the catalytic reduction of NO by CO on platinum. Journal of Catalysis, 217 7.3 32 **1989**, 119, 238-248 The adsorption and decomposition of ethylene on Ni(100). Chemical Physics Letters, 1982, 88, 236-242 216 2.5 Role of surface iron in enhanced activity for the oxygen reduction reaction on a Pd3Fe(111) 215 16.4 31 single-crystal alloy. Angewandte Chemie - International Edition, 2011, 50, 10182-5 Probing the structures of bimetallic Sn/Rh(111) surfaces: Alkali-ion scattering and x-ray 214 3.3 photoelectron diffraction studies. Physical Review B, 1997, 56, 15982-15994 Epitaxial growth of tin oxide on Pt(111): Structure and properties of wetting layers and SnO2 213 3.3 31 crystallites. Physical Review B, 2004, 69, Effects of K, O, and H adatoms on the adsorption kinetics of CO on Pt(111). Surface Science, 1992, 1.8 212 31 273, 273-284 Resonant photon-stimulated desorption of ions from oxidized cerium. Physical Review B, 1982, 25, 5551-554-31 211 Nitrogen-plasma treated hafnium oxyhydroxide as an efficient acid-stable electrocatalyst for 210 17.4 30 hydrogen evolution and oxidation reactions. Nature Communications, 2019, 10, 1543 Energy transport in metal nanoparticle plasmon waveguides. Materials Research Society Symposia 209 30 Proceedings, 2003, 777, 711 Fundamental studies of titanium oxide-Pt(100) interfaces II. Influence of oxidation and reduction 208 1.8 reactions on the surface structure of TiOx films on Pt(100). Surface Science, 2004, 572, 146-161 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, 207 5.1 30 160, 217-227 Chemisorption of ethylene and acetylene on ultrathin palladium films on molybdenum(100). The 206 30 Journal of Physical Chemistry, 1993, 97, 5327-5332 Superfulleride formation and electronic properties of C60 on K/Rh(111) surfaces. Chemical Physics 205 2.5 29 Letters, 1994, 223, 69-75 Hydrogen-induced CO displacement from the Pt(111) surface: an isothermal kinetic study. Surface 204 1.8 29 Science, 1991, 258, 75-81 Incorporation of oxygen chemisorbed on Ru(001). Applications of Surface Science, 1980, 5, 296-312 203 29 Hydrogenation of CO to Methanol on Ni(110) through Subsurface Hydrogen. Journal of the 202 16.4 28 American Chemical Society, **2017**, 139, 17582-17589

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201	IRAS studies of the orientation of acetone molecules in monolayer and multilayer films on Au(111) surfaces. <i>Surface Science</i> , 2002 , 498, 53-60	1.8	28	
200	Evidence for slow oxygen exchange between multiple adsorption sites at high oxygen coverages on Pt(111). <i>Surface Science</i> , 2002 , 498, L91-L96	1.8	28	
199	Geometric requirements for hydrocarbon catalytic sites on platinum surfaces. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3641-4	16.4	27	
198	Structure of monolayer tin oxide films on Pt(111) formed using NO2 as an efficient oxidant. <i>Physical Review B</i> , 2001 , 64,	3.3	27	
197	Influence of potassium on the adsorption of hydrogen on platinum(III). <i>The Journal of Physical Chemistry</i> , 1992 , 96, 7056-7063		27	
196	A multitechnique surface analysis study of the adsorption of H2, CO and O2 on surfaces. <i>Surface Science</i> , 1989 , 207, 274-296	1.8	27	
195	C(KVV) Auger line shape of chemisorbed CO. <i>Journal of Chemical Physics</i> , 1982 , 77, 2665-2669	3.9	27	
194	High performance discharges in the Lithium Tokamak eXperiment with liquid lithium wallsa). <i>Physics of Plasmas</i> , 2015 , 22, 056112	2.1	26	
193	A multitechnique surface science examination of Sn deposition on Pt(100). <i>Surface Science</i> , 1991 , 250, 123-138	1.8	26	
192	Studies of the ensemble size requirements for ethylene adsorption and decomposition on platinum(111): ethylene and bismuth coadsorption. <i>Langmuir</i> , 1988 , 4, 1113-1118	4	26	
191	Hydrogen-bonded cyclic water clusters nucleated on an oxide surface. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13283-8	16.4	25	
190	TPD, HREELS and UPS study of the adsorption and reaction of methyl nitrite (CH3ONO) on Pt(111). <i>Surface Science</i> , 1998 , 410, 214-227	1.8	25	
189	Spectroscopic evidence for carbon-carbon bonding in Barbidic ayers on metals. <i>Surface Science</i> , 1991 , 248, 104-118	1.8	25	
188	Surface science studies of the watergas shift reaction on a model Cu(111) catalyst. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987 , 5, 810-813	2.9	25	
187	Hydrogen surface segregation on Si(111) by photon-stimulated desorption at the Si K edge. <i>Physical Review B</i> , 1982 , 26, 2292-2295	3.3	25	
186	The adsorption of nitric oxide and nitrogen dioxide on polycrystalline platinum. <i>Surface Science</i> , 1989 , 223, 82-100	1.8	24	
185	A vibrational study of borazine adsorbed on Pt(111) and Au(111) surfaces. <i>Surface Science</i> , 1991 , 254, 29-44	1.8	24	
184	Vibrational spectroscopy using HREELS of benzene adsorbed on the Rh(111) crystal surface. Journal of Electron Spectroscopy and Related Phenomena, 1983, 29, 287-292	1.7	24	

183	The promoting effect of tetravalent cerium on the oxygen evolution activity of copper oxide catalysts. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 31545-31552	3.6	23
182	Bynthesis-onland Bynthesis-offlmodes of carbon arc operation during synthesis of carbon nanotubes. <i>Carbon</i> , 2017 , 125, 336-343	10.4	23
181	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	1.8	23
180	Hydrogenation of 1,3-butadiene on two ordered Sn/Pt(111) surface alloys. <i>Journal of Catalysis</i> , 2005 , 234, 24-32	7.3	23
179	Oxidation of Ordered Sn/Pt(111) Surface Alloys and Thermal Stability of the Oxides Formed. Journal of Physical Chemistry B, 1999 , 103, 1532-1541	3.4	23
178	Hydrogen-induced low temperature CO displacement from the Pt(111) surface. <i>Surface Science</i> , 1990 , 236, L372-L376	1.8	23
177	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	3.3	22
176	Dehydrogenation of Methylcyclohexane on Pt(111). The Journal of Physical Chemistry, 1995, 99, 16670-	16675	22
175	CO chemisorption properrties of ultrathin Pd films on Ta(110). Surface Science, 1993, 284, 139-153	1.8	22
174	Adsorption kinetics on chemically modified or bimetallic surfaces. <i>Journal of Chemical Physics</i> , 1994 , 100, 664-670	3.9	22
173	Adsorption of thermal D atoms on Sn/Pt(111) surface alloys. Surface Science, 1998, 414, 330-340	1.8	21
172	Hydrogenation of cyclohexanone on PtBn surface alloys. <i>Journal of Catalysis</i> , 2004 , 222, 285-292	7-3	21
171	Probing the reactivity of C6-hydrocarbons on Au surfaces: cyclohexane, cyclohexyl and cyclohexene on Au(). <i>Surface Science</i> , 2002 , 498, 61-73	1.8	21
170	Acetylene Chemisorption on Sn/Pt(100) Alloys. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 3786-3796	3.4	21
169	Low energy electron induced chemistry: CH3Cl on Ag(111). Surface Science, 1992, 271, 427-451	1.8	20
168	TPD study of the adsorption and reaction of nitromethane and methyl nitrite on ordered PtBn surface alloys. <i>Surface Science</i> , 1998 , 410, 170-188	1.8	19
167	Fabrication of polystyrene latex nanostructures by nanomanipulation and thermal processing. <i>Nano Letters</i> , 2005 , 5, 2624-9	11.5	19
166	Silver on Pt(1 0 0)Eboom temperature growth and high temperature alloying. <i>Surface Science</i> , 2004 , 553, 50-60	1.8	19

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165	Tin-oxide overlayer formation by oxidation of PtBn(111) surface alloys. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001 , 19, 1953-1958	2.9	19
164	Manipulation of nanoscale components with the AFM: principles and applications		19
163	Hydrocarbon trapping and condensation on platinum (111). <i>The Journal of Physical Chemistry</i> , 1992 , 96, 8694-8697		19
162	Analysis of secondary electron emission for conducting materials using 4-grid LEED/AES optics. Journal Physics D: Applied Physics, 2015 , 48, 195204	3	18
161	An overview of recent physics results from NSTX. <i>Nuclear Fusion</i> , 2015 , 55, 104002	3.3	18
160	Modification of Active Sites on YSZ(111) by Yttria Segregation. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 5990-5996	3.8	18
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