

Bruce E Koel

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

326
papers

13,377
citations

60
h-index

102
g-index

346
ext. papers

14,319
ext. citations

4.2
avg, IF

6.22
L-index

#	Paper	IF	Citations
326	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	3	3
325	Oxidation of lithium plasma facing components and its effect on plasma performance in the lithium tokamak experiment-# <i>Plasma Physics and Controlled Fusion</i> , 2021 , 63, 025007	2	0
324	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	2.1	4
323	Controlled Dy-doping to nickel-rich cathode materials in high temperature aerosol synthesis. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 6623-6630	5.9	2
322	Thermal stability of oxidized ultrathin Li films on TZM for plasma facing components. <i>Journal of Nuclear Materials</i> , 2021 , 543, 152587	3.3	1
321	Mid-Infrared Scattering in AlO Catalytic Powders. <i>Applied Spectroscopy</i> , 2021 , 75, 706-717	3.1	
320	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	0.5	1
319	Increasing Iridium Oxide Activity for the Oxygen Evolution Reaction with Hafnium Modification. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15616-15623	16.4	12
318	SIMS and HR-XPS characterization of lithiated graphite from the magnetic fusion device RFX-mod. <i>Applied Surface Science</i> , 2021 , 567, 150830	6.7	1
317	Initial Results From the Newly Upgraded LTX-# <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 1382-1387	1.3	5
316	Acetic Acid Adsorption and Reactions on Ni(110). <i>Langmuir</i> , 2020 , 36, 8705-8715	4	3
315	A simple vacuum suitcase for enabling plasma facing component characterization in fusion devices. <i>Review of Scientific Instruments</i> , 2020 , 91, 026104	1.7	3
314	Plasma Facing Component Characterization and Correlation With Plasma Conditions in Lithium Tokamak Experiment-# <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 1463-1467	1.3	6
313	Effects of non-equilibrium excitation on methane oxidation in a low-temperature RF discharge. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 064001	3	7
312	Elemental and topographical imaging of microscopic variations in deposition on NSTX-U and DIII-D samples. <i>Nuclear Materials and Energy</i> , 2019 , 18, 35-40	2.1	3
311	Sputtering of lithium and lithium compound films under deuterium and helium ion bombardment. <i>Nuclear Materials and Energy</i> , 2019 , 19, 411-415	2.1	1
310	NSTX/NSTX-U theory, modeling and analysis results. <i>Nuclear Fusion</i> , 2019 , 59, 112007	3.3	10

309	Post exposure time dependence of deuterium retention in lithium and lithium compounds. <i>Nuclear Materials and Energy</i> , 2019 , 19, 161-165	2.1	0
308	Nitrogen-plasma treated hafnium oxyhydroxide as an efficient acid-stable electrocatalyst for hydrogen evolution and oxidation reactions. <i>Nature Communications</i> , 2019 , 10, 1543	17.4	30
307	Balancing Activity and Stability in a Ternary Au-Pd/Fe Electrocatalyst for ORR with High Surface Coverages of Au. <i>ChemCatChem</i> , 2019 , 11, 693-697	5.2	6
306	Deuterium and helium ion irradiation of nanograined tungsten and tungsten-titanium alloys. <i>Nuclear Materials and Energy</i> , 2019 , 21, 100713	2.1	7
305	Self-assembling of formic acid on the partially oxidized p(2 × 1) Cu(110) surface reconstruction at low coverages. <i>Journal of Chemical Physics</i> , 2019 , 150, 041720	3.9	3
304	Formation and thermal stability of subsurface deuterium in Ni(110). <i>Surface Science</i> , 2018 , 674, 69-72	1.8	5
303	Hydrogen retention in lithium and lithium oxide films. <i>Journal of Nuclear Materials</i> , 2018 , 502, 161-168	3.3	9
302	Investigation of Water Dissociation and Surface Hydroxyl Stability on Pure and Ni-Modified CoOOH by Ambient Pressure Photoelectron Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 810-817	3.4	12
301	Interactions of incident H atoms with metal surfaces. <i>Surface Science Reports</i> , 2018 , 73, 153-189	12.9	17
300	Thermal stability of Li films on polycrystalline molybdenum substrates. <i>Journal of Nuclear Materials</i> , 2018 , 509, 532-541	3.3	4
299	Hydrogenation of CO on Ni(110) by Energetic Deuterium. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14673-14677	3.8	3
298	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
297	Adsorption and Reaction of Unsaturated Hydrocarbons on Sn/Pt Alloys 2018 , 1-10		2
296	Guaiacol Adsorption and Decomposition on Platinum. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 29180-29189	3.8	7
295	Angular, temperature, and impurity effects on secondary electron emission from Ni(110). <i>Journal of Applied Physics</i> , 2018 , 124, 093301	2.5	4
294	Shear-Induced Changes of Electronic Properties in Gallium Nitride. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29048-29057	9.5	4
293	Electrocatalytic hydrogenation of pyridinium enabled by surface proton transfer reactions. <i>Catalysis Science and Technology</i> , 2017 , 7, 831-837	5.5	14
292	Compatibility of lithium plasma-facing surfaces with high edge temperatures in the Lithium Tokamak Experiment. <i>Physics of Plasmas</i> , 2017 , 24, 056110	2.1	17

291	Minimal architecture zincBromine battery for low cost electrochemical energy storage. <i>Energy and Environmental Science</i> , 2017 , 10, 114-120	35.4	69
290	Stable synthesis of few-layered boron nitride nanotubes by anodic arc discharge. <i>Scientific Reports</i> , 2017 , 7, 3075	4.9	32
289	Overview of NSTX Upgrade initial results and modelling highlights. <i>Nuclear Fusion</i> , 2017 , 57, 102006	3.3	37
288	Advances in boronization on NSTX-Upgrade. <i>Nuclear Materials and Energy</i> , 2017 , 12, 744-748	2.1	10
287	Pyrolysis and Oxidation of Methane in a RF Plasma Reactor. <i>Plasma Chemistry and Plasma Processing</i> , 2017 , 37, 1551-1571	3.6	14
286	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
285	Synthesis-on and Synthesis-off modes of carbon arc operation during synthesis of carbon nanotubes. <i>Carbon</i> , 2017 , 125, 336-343	10.4	23
284	Unraveling the plasma-material interface with real time diagnosis of dynamic boron conditioning in extreme tokamak plasmas. <i>Nuclear Fusion</i> , 2017 , 57, 086050	3.3	7
283	Initial studies of plasma facing component surface conditioning in the national spherical tokamak experiment upgrade with the materials analysis particle probe. <i>Nuclear Materials and Energy</i> , 2017 , 12, 1248-1252	2.1	10
282	Hydrogenation of CO to Methanol on Ni(110) through Subsurface Hydrogen. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17582-17589	16.4	28
281	Hydrogen retention in lithium on metallic walls from in vacuo analysis in LTX and implications for high-Z plasma-facing components in NSTX-U. <i>Fusion Engineering and Design</i> , 2017 , 117, 135-139	1.7	14
280	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
279	Composition, structure and stability of surfaces formed by Ni deposition on Pd(111). <i>Surface Science</i> , 2016 , 646, 56-64	1.8	7
278	Reprint of "The low temperature oxidation of lithium thin films on HOPG by O2 and H2O" <i>Surface Science</i> , 2016 , 652, 222-229	1.8	1
277	The low temperature oxidation of lithium thin films on HOPG by O2 and H2O. <i>Surface Science</i> , 2016 , 651, 120-127	1.8	2
276	Sorption of atmospheric gases by bulk lithium metal. <i>Journal of Nuclear Materials</i> , 2016 , 468, 71-77	3.3	5
275	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	2.3	3
274	Spreading of lithium on a stainless steel surface at room temperature. <i>Journal of Nuclear Materials</i> , 2016 , 468, 26-30	3.3	5

273	Glass transition temperature of colloidal polystyrene dispersed in various liquids. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 1776-1783	2.6	15
272	Secondary electron emission from lithium and lithium compounds. <i>Applied Physics Letters</i> , 2016 , 109, 011605	3.4	8
271	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	1.7	8
270	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, 6110-9	3.4	12
269	Observation of Surface-Bound Negatively Charged Hydride and Hydroxide on GaP(110) in H ₂ O Environments. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17762-17772	3.8	35
268	High performance discharges in the Lithium Tokamak eXperiment with liquid lithium walls). <i>Physics of Plasmas</i> , 2015 , 22, 056112	2.1	26
267	Analysis of secondary electron emission for conducting materials using 4-grid LEED/AES optics. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 195204	3	18
266	An overview of recent physics results from NSTX. <i>Nuclear Fusion</i> , 2015 , 55, 104002	3.3	18
265	Facet-dependent activity and stability of Co ₃ O ₄ nanocrystals towards the oxygen evolution reaction. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 29387-93	3.6	158
264	The (0001) surfaces of Fe ₂ O ₃ nanocrystals are preferentially activated for water oxidation by Ni doping. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 26797-803	3.6	5
263	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	3.8	7
262	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
261	WO ₃ -Fe ₂ O ₃ composite photoelectrodes with low onset potential for solar water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 1327-32	3.6	33
260	Structural origin of anisotropic transport in electrically conducting dichloroacetic acid-treated polymers. <i>Organic Electronics</i> , 2014 , 15, 631-638	3.5	8
259	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, 12981-4	5.8	2
258	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
257	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	2.3	2
256	Titanium incorporation into hematite photoelectrodes: theoretical considerations and experimental observations. <i>Energy and Environmental Science</i> , 2014 , 7, 3100-3121	35.4	105

255	Geometric Requirements for Hydrocarbon Catalytic Sites on Platinum Surfaces. <i>Angewandte Chemie</i> , 2014 , 126, 3715-3718	3.6	2
254	Geometric requirements for hydrocarbon catalytic sites on platinum surfaces. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3641-4	16.4	27
253	Water oxidation catalysis: effects of nickel incorporation on the structural and chemical properties of the FeO(0001) surface. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22289-96	9.5	8
252	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	1.8	2
251	Theoretical Study of Carbon Adsorption on Re Surfaces: Morphological Instability. <i>Catalysis Letters</i> , 2014 , 144, 1667-1673	2.8	1
250	Poly(acrylic acid) coating induced 2-line ferrihydrite nanoparticle transport in saturated porous media. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	9
249	Highly Stable Pt/C Catalyst Nanoparticles for Methanol Electro-oxidation. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1457-1467	3.8	32
248	Alloy formation and chemisorption at Cu/Pt(111) bimetallic surfaces using alkali ISS, XPD, and TPD. <i>Surface Science</i> , 2013 , 617, 192-198	1.8	6
247	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
246	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, 11684-94	2.8	8
245	Controlling Acetylene Adsorption and Reactions on Pt _n Catalytic Surfaces. <i>ACS Catalysis</i> , 2013 , 3, 1149-1153	13.53	32
244	Plasma facing surface composition during NSTX Li experiments. <i>Journal of Nuclear Materials</i> , 2013 , 438, S647-S650	3.3	36
243	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	0.4	1
242	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	8.9	70
241	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, 7018-26	10.3	102
240	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
239	Nanofaceted C/Re(1121): fabrication, structure, and template for synthesizing nanostructured model Pt electrocatalyst for hydrogen evolution reaction. <i>ACS Nano</i> , 2012 , 6, 1404-9	16.7	17
238	Activation of Tungsten Carbide Catalysts by Use of an Oxygen Plasma Pretreatment. <i>ACS Catalysis</i> , 2012 , 2, 765-769	13.1	57

237	Role of Surface Iron in Enhanced Activity for the Oxygen Reduction Reaction on a Pd ₃ Fe(111) Single-Crystal Alloy. <i>Angewandte Chemie</i> , 2011 , 123, 10364-10367	3.6	8
236	Role of surface iron in enhanced activity for the oxygen reduction reaction on a Pd ₃ Fe(111) single-crystal alloy. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10182-5	16.4	31
235	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
234	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
233	Formation of Pd Monomers and Dimers on a Single-Crystal Pd ₃ Fe(111) Surface. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 2493-2497	6.4	5
232	Adsorption and decomposition of cyclohexanone (C ₆ H ₁₀ O) on Pt(111) and the (2 × 2) and (√3 × √3)R30°Sn/Pt(111) surface alloys. <i>Langmuir</i> , 2010 , 26, 16401-11	4	12
231	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
230	Studies of Ethylene Oxide Adsorption on Pt _n Alloys with TPD, HREELS, UPS, and DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17238-17247	3.8	10
229	Modification of Active Sites on YSZ(111) by Yttria Segregation. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 5990-5996	3.8	18
228	Structure, Characterization and Reactivity of Pt _n Surface Alloys 2010 , 29-50		
227	Surface Structure of Pd ₃ Fe(111) and Effects of Oxygen Adsorption. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1217, 1		
226	STM and LEED observations of a c(2 × 2) Ge overlayer on Pt(1 0 0). <i>Surface Science</i> , 2009 , 603, 2255-2262	1.8	1
225	Investigation of CO Oxidation Transient Kinetics on an Oxygen Pre-covered Au(211) Stepped Surface. <i>Catalysis Letters</i> , 2009 , 128, 263-267	2.8	11
224	A study of iodine adlayers on polycrystalline gold electrodes by in situ electrochemical Rutherford backscattering (ECRBS). <i>Electrochimica Acta</i> , 2009 , 54, 1777-1783	6.7	6
223	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	1.8	7
222	Formation and structure of a (√3 × √3)R23.4°Ge/Pt(111) surface alloy. <i>Surface Science</i> , 2009 , 603, 1161-1167	13	
221	Site-blocking effects of preadsorbed H on Pt(1 1 1) probed by 1,3-butadiene adsorption and reaction. <i>Surface Science</i> , 2009 , 603, 3355-3360	1.8	8
220	Formation of Ge _n Layer Compound on Pt(100). <i>Journal of Physical Chemistry C</i> , 2009 , 113, 21019-21021	3.8	1

219	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
218	Probing Selectivity over PtSn Catalysts in Reactions of n-C6 Hydrocarbons: Adsorption and Reactivity of n-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	3.8	9
217	Simultaneous Oxidation and Reduction of Arsenic by Zero-Valent Iron Nanoparticles: Understanding the Significance of the CoreShell Structure. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14591-14594	3.8	190
216	Determination of the oxide layer thickness in core-shell zerovalent iron nanoparticles. <i>Langmuir</i> , 2008 , 24, 4329-34	4	184
215	Voxels: volume-enclosing microstructures. <i>Journal of Micromechanics and Microengineering</i> , 2008 , 18, 055025	2	8
214	Real-time scanning tunneling microscopy observations of the oxidation of a TiPt(111)-(2x2) surface alloy using O2 and NO2a). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008 , 26, 1336-1342	2.9	3
213	Promoters and Poisons 2008 , 1593		7
212	Oxidation of Au on vicinal W(110): Role of step edges and facets. <i>Physical Review B</i> , 2007 , 75,	3.3	1
211	Investigation of the thermal stability of 2-D patterns of Au nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 2863-9	1.3	1
210	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
209	Catalytic oxidation of HCN over a 0.5% Pt/Al2O3 catalyst. <i>Applied Catalysis B: Environmental</i> , 2006 , 65, 282-290	21.8	53
208	Investigation of Ruthenium Dissolution in Advanced Membrane Electrode Assemblies for Direct Methanol Based Fuel Cell Stacks. <i>ECS Transactions</i> , 2006 , 1, 293-303	1	9
207	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
206	Fractional Factorial Study of HCN Removal over a 0.5% Pt/Al2O3 Catalyst: Effects of Temperature, Gas Flow Rate, and Reactant Partial Pressure. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 934-939	3.9	16
205	Desorption of chemisorbed Carbon on Mo(1 0 0) by noble gas ion sputtering: Validation of ground test measurements of ion engine lifetimes. <i>Applied Surface Science</i> , 2006 , 252, 2657-2664	6.7	7
204	Influence of coadsorbed hydrogen on ethylene adsorption and reaction on a (radical3 x radical3)R30 degrees-Sn/Pt(111) surface alloy. <i>Langmuir</i> , 2005 , 21, 971-5	4	7
203	Fabrication of polystyrene latex nanostructures by nanomanipulation and thermal processing. <i>Nano Letters</i> , 2005 , 5, 2624-9	11.5	19
202	TPD and FT-IRAS investigation of ethylene oxide (EtO) adsorption on a Au(211) stepped surface. <i>Langmuir</i> , 2005 , 21, 3886-91	4	5

201	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
200	Reactivity of Ethyl Groups on a Sn/Pt(111) Surface Alloy. <i>Catalysis Letters</i> , 2005 , 99, 27-32	2.8	9
199	Epitaxial growth of tin oxide on Pt(111): Structure and properties of wetting layers and SnO ₂ crystallites. <i>Physical Review B</i> , 2004 , 69,	3.3	31
198	Suppressed surface alloying for a bulk miscible system: Ge on Pt(100). <i>Physical Review B</i> , 2004 , 69,	3.3	6
197	Probing the chemistry of CH ₃ I on Pt ₈ Sn alloys. <i>Surface Science</i> , 2004 , 553, 39-49	1.8	7
196	Silver on Pt(1 0 0) room temperature growth and high temperature alloying. <i>Surface Science</i> , 2004 , 553, 50-60	1.8	19
195	TPD and HREELS reinvestigation of ethylene oxide adsorption on Pt(). <i>Surface Science</i> , 2004 , 564, 53-61	1.8	11
194	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	9.6	112
193	Thermal stability of ultrathin titanium films on a Pt(111) substrate. <i>Thin Solid Films</i> , 2004 , 466, 123-127	2.2	13
192	Desorption energies of linear and cyclic alkanes on surfaces: anomalous scaling with length. <i>Surface Science</i> , 2004 , 554, 125-140	1.8	56
191	Adsorption and reaction of NO ₂ on a (BB)R30 Sn/Pt(1 1 1) surface alloy. <i>Surface Science</i> , 2004 , 560, 235-245	1.8	7
190	Metastable surface structures of the bimetallic Sn/Pt(1 0 0) system. <i>Surface Science</i> , 2004 , 558, 35-48	1.8	11
189	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). <i>Surface Science</i> , 2004 , 572, 146-161	1.8	30
188	Fundamental studies of titanium oxidePt(1 0 0) interfaces: I. Stable high temperature structures formed by annealing TiO _x films on Pt(1 0 0). <i>Surface Science</i> , 2004 , 572, 127-145	1.8	53
187	Adsorption and reaction of 1,3-butadiene on Pt(111) and Sn/Pt(111) surface alloys. <i>Surface Science</i> , 2004 , 572, 261-268	1.8	12
186	Adsorption and reaction of bicyclic hydrocarbons at Pt(111) and Sn/Pt(111) surface alloys: trans-decahydronaphthalene (C ₁₀ H ₁₈) and bicyclohexane (C ₁₂ H ₂₂). <i>Surface Science</i> , 2004 , 573, 413-425	1.8	5
185	Hydrogenation of cyclohexanone on Pt ₈ Sn surface alloys. <i>Journal of Catalysis</i> , 2004 , 222, 285-292	7.3	21
184	Alloy Formation and CO Adsorption on Bimetallic Ca/Pd(111) Surfaces[] <i>Journal of Physical Chemistry B</i> , 2004 , 108, 14417-14427	3.4	5

183	Silver on Pt(100): Alloying vs. surface reconstruction—two competing mechanisms to reduce surface stress. <i>Europhysics Letters</i> , 2003 , 64, 70-76	1.6	14
182	Energy transport in metal nanoparticle plasmon waveguides. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 777, 711		30
181	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
180	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
179	Structural and chemical properties of a c(2 \times 2)/Pt(100) second-layer alloy: A probe of strong ligand effects on surface Pt atoms. <i>Physical Review B</i> , 2003 , 68,	3.3	10
178	Fe deposition on Pt(): a route to Fe-containing Pt/Fe alloy surfaces. <i>Surface Science</i> , 2002 , 513, L391-L396	1.8	40
177	Hydrogenation of Crotonaldehyde over Sn/Pt(111) Alloy Model Catalysts. <i>Journal of Catalysis</i> , 2002 , 205, 278-288	7.3	50
176	Ultrahigh vacuum instrument that combines variable-temperature scanning tunneling microscopy with Fourier transform infrared reflection-absorption spectroscopy for studies of chemical reactions at surfaces. <i>Review of Scientific Instruments</i> , 2002 , 73, 1267-1272	1.7	11
175	Observation of coupled plasmon-polariton modes of plasmon waveguides for electromagnetic energy transport below the diffraction limit. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 722, 621		1
174	Observation of coupled plasmon-polariton modes of plasmon waveguides for electromagnetic energy transport below the diffraction limit 2002 ,		14
173	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
172	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
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