

Ashleigh E Baber

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.

47
papers

3,678
citations

26
h-index

48
g-index

48
ext. papers

4,079
ext. citations

8
avg, IF

4.9
L-index

#	Paper	IF	Citations
47	Effect of undercoordinated Ag(111) defect sites on the adsorption of ethanol. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020 , 38, 033213	2.9	1
46	Low-temperature exchange of hydrogen and deuterium between molecular ethanol and water on Au(111). <i>Surface Science</i> , 2019 , 680, 1-5	1.8	2
45	Chirality at two-dimensional surfaces: A perspective from small molecule alcohol assembly on Au(111). <i>Journal of Chemical Physics</i> , 2018 , 149, 034703	3.9	8
44	Elucidation of Active Sites for the Reaction of Ethanol on TiO ₂ /Au(111). <i>Journal of Physical Chemistry C</i> , 2017 , 121, 7794-7802	3.8	12
43	How to stabilize highly active Cu ⁺ cations in a mixed-oxide catalyst. <i>Catalysis Today</i> , 2016 , 263, 4-10	5.3	9
42	Au and Pt nanoparticle supported catalysts tailored for H ₂ production: From models to powder catalysts. <i>Applied Catalysis A: General</i> , 2016 , 518, 18-47	5.1	27
41	Isolation and characterization of formates on CeO _x –Cu _y O/Cu(1 1 1). <i>Catalysis Today</i> , 2015 , 240, 190-200	5.3	9
40	Impact of branching on the supramolecular assembly of thioethers on Au(111). <i>Journal of Chemical Physics</i> , 2015 , 142, 101915	3.9	9
39	Redox-Mediated Reconstruction of Copper during Carbon Monoxide Oxidation. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15902-15909	3.8	53
38	Catalysis. Highly active copper-ceria and copper-ceria-titania catalysts for methanol synthesis from CO. <i>Science</i> , 2014 , 345, 546-50	33.3	895
37	Stabilization of catalytically active Cu ⁺ surface sites on titanium-copper mixed-oxide films. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5336-40	16.4	44
36	Mechanistic Study of CO Titration on Cu _x O/Cu(1 1 1) (x=2) Surfaces. <i>ChemCatChem</i> , 2014 , 6, 2364-2372	5.2	26
35	Structure and energetics of hydrogen-bonded networks of methanol on close packed transition metal surfaces. <i>Journal of Chemical Physics</i> , 2014 , 141, 014701	3.9	24
34	Stabilization of Catalytically Active Cu ⁺ Surface Sites on Titanium–Copper Mixed-Oxide Films. <i>Angewandte Chemie</i> , 2014 , 126, 5440-5444	3.6	7
33	Assisted deprotonation of formic acid on Cu(111) and self-assembly of 1D chains. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12291-8	3.6	26
32	Importance of the metal-oxide interface in catalysis: in situ studies of the water-gas shift reaction by ambient-pressure X-ray photoelectron spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5101-5	16.4	245
31	Probing adsorption sites for CO on ceria. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 15856-62	3.6	24

30	In situ imaging of Cu ₂ O under reducing conditions: formation of metallic fronts by mass transfer. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16781-4	16.4	66
29	An Atomic Scale View of Methanol Reactivity at the Cu(111)/CuO _x Interface. <i>ChemCatChem</i> , 2013 , 5, 2684-2690	5.2	11
28	Importance of the Metal-Oxide Interface in Catalysis: In Situ Studies of the Water-Gas Shift Reaction by Ambient-Pressure X-ray Photoelectron Spectroscopy. <i>Angewandte Chemie</i> , 2013 , 125, 5205-5209	3.6	30
27	Isolated metal atom geometries as a strategy for selective heterogeneous hydrogenations. <i>Science</i> , 2012 , 335, 1209-12	33.3	931
26	Hydrogen-bonded assembly of methanol on Cu(111). <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 11846-11852	5.6	26
25	Reactivity and Morphology of Oxygen-Modified Au Surfaces. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 18292-18299	3.8	12
24	Viewing and inducing symmetry breaking at the single-molecule limit. <i>Chirality</i> , 2012 , 24, 1051-4	2.1	4
23	Chirality and Rotation of Asymmetric Surface-Bound Thioethers. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 897-901	3.8	27
22	Visualization of hydrogen bonding and associated chirality in methanol hexamers. <i>Physical Review Letters</i> , 2011 , 107, 256101	7.4	41
21	Experimental demonstration of a single-molecule electric motor. <i>Nature Nanotechnology</i> , 2011 , 6, 625-628	28.7	208
20	An Atomic-Scale View of Palladium Alloys and their Ability to Dissociate Molecular Hydrogen. <i>ChemCatChem</i> , 2011 , 3, 607-614	5.2	69
19	Hydrogen-Bonded Networks in Surface-Bound Methanol. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9153-9163	3.9	28
18	Atomic-scale geometry and electronic structure of catalytically important Pd/Au alloys. <i>ACS Nano</i> , 2010 , 4, 1637-45	16.7	76
17	Time-resolved studies of individual molecular rotors. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 264005	0.6	27
16	Understanding the Rotational Mechanism of a Single Molecule: STM and DFT Investigations of Dimethyl Sulfide Molecular Rotors on Au(111). <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3152-3155	3.8	21
15	Adsorption Site Distributions on Cu(111), Cu(221), and Cu(643) as Determined by Xe Adsorption. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 18566-18575	3.8	7
14	Adsorption, Assembly, and Dynamics of Dibutyl Sulfide on Au{111}. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 14583-14589	3.8	34
13	Dynamics of molecular adsorption and rotation on nonequilibrium sites. <i>Langmuir</i> , 2010 , 26, 15350-5	4	10

12	Mode-selective electrical excitation of a molecular rotor. <i>Chemistry - A European Journal</i> , 2009 , 15, 9678-9888	3.8	32
11	Atomic-Scale Imaging and Electronic Structure Determination of Catalytic Sites on Pd/Cu Near Surface Alloys. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 7246-7250	3.8	72
10	Dynamics of Thioether Molecular Rotors: Effects of Surface Interactions and Chain Flexibility. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 10913-10920	3.8	32
9	Engineering Dislocation Networks for the Directed Assembly of Two-Dimensional Rotor Arrays. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5895-5898	3.8	21
8	Hydrogen dissociation and spillover on individual isolated palladium atoms. <i>Physical Review Letters</i> , 2009 , 103, 246102	7.4	174
7	Importance of Kinetics in Surface Alloying: A Comparison of the Diffusion Pathways of Pd and Ag Atoms on Cu(111). <i>Journal of Physical Chemistry C</i> , 2009 , 113, 12863-12869	3.8	39
6	A quantitative single-molecule study of thioether molecular rotors. <i>ACS Nano</i> , 2008 , 2, 2385-91	16.7	90
5	The Real Structure of Naturally Chiral Cu{643}. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 11086-11089	3.8	45
4	Dimethyl sulfide on Cu{111}: molecular self-assembly and submolecular resolution imaging. <i>ACS Nano</i> , 2007 , 1, 423-8	16.7	19
3	Dipole-driven ferroelectric assembly of styrene on Au{111}. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6368-9	16.4	56
2	Adsorption, interaction, and manipulation of dibutyl sulfide on cu{111}. <i>ACS Nano</i> , 2007 , 1, 22-9	16.7	23
1	Extraordinary atomic mobility of Au{111} at 80 Kelvin: effect of styrene adsorption. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15384-5	16.4	26