Ashleigh E Baber

List of Publications by Citations

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	Isolated metal atom geometries as a strategy for selective heterogeneous hydrogenations. *Science*, **2012**, 335, 1209-12	33.3	931
46	Catalysis. Highly active copper-ceria and copper-ceria-titania catalysts for methanol synthesis from CO□*Science*, **2014**, 345, 546-50	33.3	895
45	Importance of the metal-oxide interface in catalysis: in situ studies of the water-gas shift reaction by ambient-pressure X-ray photoelectron spectroscopy. *Angewandte Chemie - International Edition*, **2013**, 52, 5101-5	16.4	245
44	Experimental demonstration of a single-molecule electric motor. *Nature Nanotechnology*, **2011**, 6, 625-9	28.7	208
43	Hydrogen dissociation and spillover on individual isolated palladium atoms. *Physical Review Letters*, **2009**, 103, 246102	7.4	174
42	A quantitative single-molecule study of thioether molecular rotors. *ACS Nano*, **2008**, 2, 2385-91	16.7	90
41	Atomic-scale geometry and electronic structure of catalytically important pd/au alloys. *ACS Nano*, **2010**, 4, 1637-45	16.7	76
40	Atomic-Scale Imaging and Electronic Structure Determination of Catalytic Sites on Pd/Cu Near Surface Alloys. *Journal of Physical Chemistry C*, **2009**, 113, 7246-7250	3.8	72
39	An Atomic-Scale View of Palladium Alloys and their Ability to Dissociate Molecular Hydrogen. *ChemCatChem*, **2011**, 3, 607-614	5.2	69
38	In situ imaging of Cu2O under reducing conditions: formation of metallic fronts by mass transfer. *Journal of the American Chemical Society*, **2013**, 135, 16781-4	16.4	66
37	Dipole-driven ferroelectric assembly of styrene on Au{111}. *Journal of the American Chemical Society*, **2007**, 129, 6368-9	16.4	56
36	Redox-Mediated Reconstruction of Copper during Carbon Monoxide Oxidation. *Journal of Physical Chemistry C*, **2014**, 118, 15902-15909	3.8	53
35	The Real Structure of Naturally Chiral Cu{643}. *Journal of Physical Chemistry C*, **2008**, 112, 11086-11089	3.8	45
34	Stabilization of catalytically active Cu+ surface sites on titanium-copper mixed-oxide films. *Angewandte Chemie - International Edition*, **2014**, 53, 5336-40	16.4	44
33	Visualization of hydrogen bonding and associated chirality in methanol hexamers. *Physical Review Letters*, **2011**, 107, 256101	7.4	41
32	Importance of Kinetics in Surface Alloying: A Comparison of the Diffusion Pathways of Pd and Ag Atoms on Cu(111). *Journal of Physical Chemistry C*, **2009**, 113, 12863-12869	3.8	39
31	Adsorption, Assembly, and Dynamics of Dibutyl Sulfide on Au{111}. *Journal of Physical Chemistry C*, **2010**, 114, 14583-14589	3.8	34

30	Mode-selective electrical excitation of a molecular rotor. *Chemistry - A European Journal*, **2009**, 15, 9678-88	4.8	32
29	Dynamics of Thioether Molecular Rotors: Effects of Surface Interactions and Chain Flexibility. *Journal of Physical Chemistry C*, **2009**, 113, 10913-10920	3.8	32
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. *Angewandte Chemie*, **2013**, 125, 5205-5209	3.6	30
27	Hydrogen-Bonded Networks in Surface-Bound Methanol. *Journal of Physical Chemistry C*, **2011**, 115, 9157-9163	3.8	28
26	Au and Pt nanoparticle supported catalysts tailored for H2 production: From models to powder catalysts. *Applied Catalysis A: General*, **2016**, 518, 18-47	5.1	27
25	Chirality and Rotation of Asymmetric Surface-Bound Thioethers□*Journal of Physical Chemistry C*, **2011**, 115, 897-901	3.8	27
24	Time-resolved studies of individual molecular rotors. *Journal of Physics Condensed Matter*, **2010**, 22, 264006	2.6	27
23	Assisted deprotonation of formic acid on Cu(111) and self-assembly of 1D chains. *Physical Chemistry Chemical Physics*, **2013**, 15, 12291-8	3.6	26
22	Mechanistic Study of CO Titration on CuxO/Cu(1 1 1) (x□) Surfaces. *ChemCatChem*, **2014**, 6, 2364-2372	5.2	26
21	Hydrogen-bonded assembly of methanol on Cu(111). *Physical Chemistry Chemical Physics*, **2012**, 14, 11846-52	3.6	26
20	Extraordinary atomic mobility of Au{111} at 80 Kelvin: effect of styrene adsorption. *Journal of the American Chemical Society*, **2006**, 128, 15384-5	16.4	26
19	Probing adsorption sites for CO on ceria. *Physical Chemistry Chemical Physics*, **2013**, 15, 15856-62	3.6	24
18	Structure and energetics of hydrogen-bonded networks of methanol on close packed transition metal surfaces. *Journal of Chemical Physics*, **2014**, 141, 014701	3.9	24
17	Adsorption, interaction, and manipulation of dibutyl sulfide on cu{111}. *ACS Nano*, **2007**, 1, 22-9	16.7	23
16	Understanding the Rotational Mechanism of a Single Molecule: STM and DFT Investigations of Dimethyl Sulfide Molecular Rotors on Au(111). *Journal of Physical Chemistry C*, **2010**, 114, 3152-3155	3.8	21
15	Engineering Dislocation Networks for the Directed Assembly of Two-Dimensional Rotor Arrays. *Journal of Physical Chemistry C*, **2009**, 113, 5895-5898	3.8	21
14	Dimethyl sulfide on Cu{111}: molecular self-assembly and submolecular resolution imaging. *ACS Nano*, **2007**, 1, 423-8	16.7	19
13	Elucidation of Active Sites for the Reaction of Ethanol on TiO2/Au(111). *Journal of Physical Chemistry C*, **2017**, 121, 7794-7802	3.8	12

12	Reactivity and Morphology of Oxygen-Modified Au Surfaces. *Journal of Physical Chemistry C*, **2012**, 116, 18292-18299	3.8	12
11	An Atomic Scale View of Methanol Reactivity at the Cu(1 1 1)/CuOx Interface. *ChemCatChem*, **2013**, 5, 2684-2690	5.2	11
10	Dynamics of molecular adsorption and rotation on nonequilibrium sites. *Langmuir*, **2010**, 26, 15350-5	4	10
9	Isolation and characterization of formates on CeOx□uyO/Cu(1 1 1). *Catalysis Today*, **2015**, 240, 190-200	5.3	9
8	How to stabilize highly active Cu+ cations in a mixed-oxide catalyst. *Catalysis Today*, **2016**, 263, 4-10	5.3	9
7	Impact of branching on the supramolecular assembly of thioethers on Au(111). *Journal of Chemical Physics*, **2015**, 142, 101915	3.9	9
6	Chirality at two-dimensional surfaces: A perspective from small molecule alcohol assembly on Au(111). *Journal of Chemical Physics*, **2018**, 149, 034703	3.9	8
5	Stabilization of Catalytically Active Cu+ Surface Sites on Titanium□Copper Mixed-Oxide Films. *Angewandte Chemie*, **2014**, 126, 5440-5444	3.6	7
4	Adsorption Site Distributions on Cu(111), Cu(221), and Cu(643) as Determined by Xe Adsorption. *Journal of Physical Chemistry C*, **2010**, 114, 18566-18575	3.8	7
3	Viewing and inducing symmetry breaking at the single-molecule limit. *Chirality*, **2012**, 24, 1051-4	2.1	4
2	Low□emperature exchange of hydrogen and deuterium between molecular ethanol and water on Au(111). *Surface Science*, **2019**, 680, 1-5	1.8	2
1	Effect of undercoordinated Ag(111) defect sites on the adsorption of ethanol. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2020**, 38, 033213	2.9	1