## Barbara A J Lechner

List of Publications by Year in descending order

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687363 642732 28 784 13 23 citations g-index h-index papers 30 30 30 1407 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Dynamic restructuring drives catalytic activity on nanoporous gold–silver alloy catalysts. Nature Materials, 2017, 16, 558-564.	27.5	243
2	Recycling of CO <sub>2</sub> : Probing the Chemical State of the Ni(111) Surface during the Methanation Reaction with Ambient-Pressure X-Ray Photoelectron Spectroscopy. Journal of the American Chemical Society, 2016, 138, 13246-13252.	13.7	145
3	Growth and Structure of the First Layers of Ice on Ru(0001) and Pt(111). Journal of the American Chemical Society, 2016, 138, 3145-3151.	13.7	93
4	Coupling between diffusion and orientation of pentacene molecules on an organic surface. Nature Materials, 2016, 15, 397-400.	27.5	37
5	A study of the $O/Ag(111)$ system with scanning tunneling microscopy and x-ray photoelectron spectroscopy at ambient pressures. Surface Science, 2016, 652, 51-57.	1.9	29
6	Solvation and Reaction of Ammonia in Molecularly Thin Water Films. Journal of Physical Chemistry C, 2015, 119, 23052-23058.	3.1	28
7	Lineshapes in quasi-elastic scattering from species hopping between non-equivalent surface sites. Surface Science, 2010, 604, 1459-1475.	1.9	24
8	Evolution of steady-state material properties during catalysis: Oxidative coupling of methanol over nanoporous Ag0.03Au0.97. Journal of Catalysis, 2019, 380, 366-374.	6.2	24
9	Weak Intermolecular Interactions in an Ionically Bound Molecular Adsorbate:Cyclopentadienyl/Cu(111). Physical Review Letters, 2011, 106, 186101.	7.8	20
10	Atomic scale friction of molecular adsorbates during diffusion. Journal of Chemical Physics, 2013, 138, 194710.	3.0	20
11	Quantum Influences in the Diffusive Motion of Pyrrole on Cu(111). Angewandte Chemie - International Edition, 2013, 52, 5085-5088.	13.8	16
12	The new FAST module: A portable and transparent add-on module for time-resolved investigations with commercial scanning probe microscopes. Ultramicroscopy, 2019, 205, 49-56.	1.9	16
13	Jumping, Rotating, and Flapping: The Atomic-Scale Motion of Thiophene on Cu(111). Journal of Physical Chemistry Letters, 2013, 4, 1953-1958.	4.6	14
14	Cluster Catalysis with Lattice Oxygen: Tracing Oxygen Transport from a Magnetite (001) Support onto Small Pt Clusters. ACS Catalysis, 2021, 11, 9519-9529.	11.2	14
15	Phase transitions driven by competing interactions in low-dimensional systems. Europhysics Letters, 2010, 92, 26004.	2.0	11
16	Influence of Local Defects on the Dynamics of O–H Bond Breaking and Formation on a Magnetite Surface. Journal of Physical Chemistry C, 2019, 123, 19742-19747.	3.1	11
17	A Microscopy Approach to Investigating the Energetics of Small Supported Metal Clusters. Journal of Physical Chemistry C, 2018, 122, 22569-22576.	3.1	8
18	Order–disorder phase transition of the subsurface cation vacancy reconstruction on Fe3O4(001). Physical Chemistry Chemical Physics, 2020, 22, 8336-8343.	2.8	8

#	Article	IF	CITATIONS
19	Vibrational lifetimes and friction in adsorbate motion determined from quasi-elastic scattering. Physical Chemistry Chemical Physics, 2015, 17, 21819-21823.	2.8	7
20	Electronically driven phase transitions in a quasi-one-dimensional adsorbate system. European Physical Journal B, 2010, 75, 15-22.	1.5	6
21	Scanning Tunneling Microscopy Study of the Structure and Interaction between Carbon Monoxide and Hydrogen on the Ru(0001) Surface. Journal of Physical Chemistry B, 2018, 122, 649-656.	2.6	6
22	Studying Complex Surface Dynamical Systems Using Helium-3 Spin-Echo Spectroscopy. Springer Theses, 2014, , .	0.1	2
23	Nanoscale patterning at the Si/SiO2/graphene interface by focused He+ beam. Nanotechnology, 2020, 31, 505302.	2.6	2
24	The molecular wagon that stays on track. Science, 2020, 370, 912-912.	12.6	0
25	The Helium-3 Spin-Echo Experiment. Springer Theses, 2014, , 5-32.	0.1	О
26	The Dynamics of Cyclopentadienyl on Cu(111). Springer Theses, 2014, , 71-104.	0.1	0
27	The Atomic-Scale Motion of Thiophene on Cu(111). Springer Theses, 2014, , 143-168.	0.1	0
28	Quantum Influences in the Diffusive Motion of Pyrrole on Cu(111). Springer Theses, 2014, , 105-141.	0.1	0