## 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	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
2	The molecular wagon that stays on track. Science, 2020, 370, 912-912.	12.6	O
3	Order–disorder phase transition of the subsurface cation vacancy reconstruction on Fe3O4(001). Physical Chemistry Chemical Physics, 2020, 22, 8336-8343.	2.8	8
4	Nanoscale patterning at the Si/SiO2/graphene interface by focused He+ beam. Nanotechnology, 2020, 31, 505302.	2.6	2
5	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
6	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
7	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
8	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
9	A Microscopy Approach to Investigating the Energetics of Small Supported Metal Clusters. Journal of Physical Chemistry C, 2018, 122, 22569-22576.	3.1	8
10	Dynamic restructuring drives catalytic activity on nanoporous gold–silver alloy catalysts. Nature Materials, 2017, 16, 558-564.	27.5	243
11	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
12	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
13	Coupling between diffusion and orientation of pentacene molecules on an organic surface. Nature Materials, 2016, 15, 397-400.	27.5	37
14	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
15	Vibrational lifetimes and friction in adsorbate motion determined from quasi-elastic scattering. Physical Chemistry Chemical Physics, 2015, 17, 21819-21823.	2.8	7
16	Solvation and Reaction of Ammonia in Molecularly Thin Water Films. Journal of Physical Chemistry C, 2015, 119, 23052-23058.	3.1	28
17	Studying Complex Surface Dynamical Systems Using Helium-3 Spin-Echo Spectroscopy. Springer Theses, 2014, , .	0.1	2
18	The Helium-3 Spin-Echo Experiment. Springer Theses, 2014, , 5-32.	0.1	0

#	Article	IF	CITATIONS
19	The Dynamics of Cyclopentadienyl on Cu(111). Springer Theses, 2014, , 71-104.	0.1	0
20	The Atomic-Scale Motion of Thiophene on Cu(111). Springer Theses, 2014, , 143-168.	0.1	0
21	Quantum Influences in the Diffusive Motion of Pyrrole on Cu(111). Springer Theses, 2014, , 105-141.	0.1	0
22	Quantum Influences in the Diffusive Motion of Pyrrole on $Cu(111)$ . Angewandte Chemie - International Edition, 2013, 52, 5085-5088.	13.8	16
23	Atomic scale friction of molecular adsorbates during diffusion. Journal of Chemical Physics, 2013, 138, 194710.	3.0	20
24	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
25	Weak Intermolecular Interactions in an Ionically Bound Molecular Adsorbate:Cyclopentadienyl/Cu(111). Physical Review Letters, 2011, 106, 186101.	7.8	20
26	Electronically driven phase transitions in a quasi-one-dimensional adsorbate system. European Physical Journal B, 2010, 75, 15-22.	1.5	6
27	Lineshapes in quasi-elastic scattering from species hopping between non-equivalent surface sites. Surface Science, 2010, 604, 1459-1475.	1.9	24
28	Phase transitions driven by competing interactions in low-dimensional systems. Europhysics Letters, 2010, 92, 26004.	2.0	11