

# Christopher R O'connor

## List of Publications by Year in descending order

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Version: 2024-02-01

18  
papers

345  
citations

932766

10  
h-index

839053

18  
g-index

18  
all docs

18  
docs citations

18  
times ranked

397  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of Surface Alloys: Rearrangement of Pd/Ag(111) Induced by CO and O <sub>2</sub> . Journal of Physical Chemistry C, 2019, 123, 8312-8323.	1.5	75
2	Dilute Alloys Based on Au, Ag, or Cu for Efficient Catalysis: From Synthesis to Active Sites. Chemical Reviews, 2022, 122, 8758-8808.	23.0	50
3	Evolution of Metastable Structures at Bimetallic Surfaces from Microscopy and Machine-Learning Molecular Dynamics. Journal of the American Chemical Society, 2020, 142, 15907-15916.	6.6	47
4	Hydrogen migration at restructuring palladium-silver oxide boundaries dramatically enhances reduction rate of silver oxide. Nature Communications, 2020, 11, 1844.	5.8	28
5	Facilitating hydrogen atom migration via a dense phase on palladium islands to a surrounding silver surface. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22657-22664.	3.3	26
6	Water facilitates oxygen migration on gold surfaces. Physical Chemistry Chemical Physics, 2018, 20, 2196-2204.	1.3	17
7	Reduction of Oxidized Pd/Ag(111) Surfaces by H <sub>2</sub> : Sensitivity to PdO Island Size and Dispersion. ACS Catalysis, 2020, 10, 10117-10124.	5.5	16
8	Predicting X-ray Photoelectron Peak Shapes: the Effect of Electronic Structure. Journal of Physical Chemistry C, 2021, 125, 10685-10692.	1.5	16
9	Facile Decomposition of Organophosphonates by Dual Lewis Sites on a Fe <sub>3</sub> O <sub>4</sub> (111) Film. Journal of Physical Chemistry C, 2020, 124, 12432-12441.	1.5	13
10	Identifying key descriptors in surface binding: interplay of surface anchoring and intermolecular interactions for carboxylates on Au(110). Chemical Science, 2018, 9, 3759-3766.	3.7	11
11	Dual Lewis site creation for activation of methanol on Fe <sub>3</sub> O <sub>4</sub> (111) thin films. Chemical Science, 2020, 11, 2448-2454.	3.7	10
12	Growth and auto-oxidation of Pd on single-layer AgO <sub>x</sub> /Ag(111). Physical Chemistry Chemical Physics, 2020, 22, 6202-6209.	1.3	8
13	Oxophilicity Drives Oxygen Transfer at a Palladium-Silver Interface for Increased CO Oxidation Activity. ACS Catalysis, 2020, 10, 13878-13889.	5.5	7
14	Tuning reactivity layer-by-layer: formic acid activation on Ag/Pd(111). Chemical Science, 2020, 11, 6492-6499.	3.7	7
15	Oxygen adsorption on spontaneously reconstructed Au(511). Surface Science, 2019, 679, 296-303.	0.8	5
16	Regeneration of Active Surface Alloys during Cyclic Oxidation and Reduction: Oxidation of H <sub>2</sub> on Pd/Ag(111). Journal of Physical Chemistry Letters, 2021, 12, 6752-6759.	2.1	5
17	Carbon monoxide, CO(g), by high-resolution near-ambient-pressure x-ray photoelectron spectroscopy. Surface Science Spectra, 2020, 27, 014002.	0.3	2
18	Hydrogen, H <sub>2</sub> (g), by near-ambient-pressure soft x-ray synchrotron-radiation photoelectron spectroscopy. Surface Science Spectra, 2021, 28, 014008.	0.3	2