

# Christopher J Heard

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

1,049  
citations

471061

17  
h-index

433756

31  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1706  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards <i>operando</i> computational modeling in heterogeneous catalysis. Chemical Society Reviews, 2018, 47, 8307-8348.	18.7	169
2	Size-Dependent Subnanometer Pd Cluster (Pd <sub>4</sub> , Pd <sub>6</sub> , and Pd <sub>17</sub> ) Water Oxidation Electrocatalysis. ACS Nano, 2013, 7, 5808-5817.	7.3	137
3	2D Oxide Nanomaterials to Address the Energy Transition and Catalysis. Advanced Materials, 2019, 31, e1801712.	11.1	88
4	Fast room temperature lability of aluminosilicate zeolites. Nature Communications, 2019, 10, 4690.	5.8	75
5	Zeolite (In)Stability under Aqueous or Steaming Conditions. Advanced Materials, 2020, 32, e2003264.	11.1	75
6	Optical and electronic properties of mixed Ag-Au tetramer cations. Journal of Chemical Physics, 2014, 140, 054312.	1.2	44
7	Kinetic Regimes in Ethylene Hydrogenation over Transition-Metal Surfaces. ACS Catalysis, 2016, 6, 3277-3286.	5.5	43
8	A density functional global optimisation study of neutral 8-atom Cu-Ag and Cu-Au clusters. European Physical Journal D, 2013, 67, 1.	0.6	41
9	Structural and Energetic Trends of Ethylene Hydrogenation over Transition Metal Surfaces. Journal of Physical Chemistry C, 2016, 120, 995-1003.	1.5	39
10	Segregation effects on the properties of (AuAg) <sub>147</sub> . Physical Chemistry Chemical Physics, 2014, 16, 21049-21061.	1.3	37
11	The effect of water on the validity of L <sup>o</sup> wenstein's rule. Chemical Science, 2019, 10, 5705-5711.	3.7	37
12	Pd <sub>n</sub> Ag <sub>(4<sup>n</sup>)</sub> and Pd <sub>n</sub> Pt <sub>(4<sup>n</sup>)</sub> clusters on MgO (100): a density functional surface genetic algorithm investigation. Nanoscale, 2014, 6, 11777-11788.	2.8	35
13	Optical Absorption of Small Palladium-Doped Gold Clusters. Particle and Particle Systems Characterization, 2016, 33, 364-372.	1.2	23
14	Altering CO binding on gold cluster cations by Pd-doping. Nanoscale, 2019, 11, 16130-16141.	2.8	23
15	Energy Landscape Exploration of Sub-Nanometre Copper-Silver Clusters. ChemPhysChem, 2015, 16, 1461-1469.	1.0	20
16	Origin of the Unusual Stability of Zeolite-Encapsulated Sub-Nanometer Platinum. ACS Catalysis, 2020, 10, 11057-11068.	5.5	20
17	Support and Oxidation Effects on Subnanometer Palladium Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 3581-3589.	1.5	19
18	Tuning the Reactivity of Ultrathin Oxides: NO Adsorption on Monolayer FeO(111). Angewandte Chemie - International Edition, 2016, 55, 9267-9271.	7.2	16

#	ARTICLE	IF	CITATIONS
19	A theoretical study of the structures and optical spectra of helical copper-silver clusters. Physical Chemistry Chemical Physics, 2014, 16, 21039-21048.	1.3	15
20	Cluster Size Effects in Ethylene Hydrogenation over Palladium. Journal of Physical Chemistry C, 2017, 121, 10870-10875.	1.5	15
21	Nanoparticles Supported on Sub-Nanometer Oxide Films: Scaling Model Systems to Bulk Materials. Angewandte Chemie - International Edition, 2021, 60, 5890-5897.	7.2	14
22	The Role of Water Loading and Germanium Content in Germanosilicate Hydrolysis. Journal of Physical Chemistry C, 2021, 125, 23744-23757.	1.5	12
23	Fe Oxides on Ag Surfaces: Structure and Reactivity. Topics in Catalysis, 2017, 60, 492-502.	1.3	10
24	Charge and Compositional Effects on the 2D-3D Transition in Octameric AgAu Clusters. Zeitschrift Fur Physikalische Chemie, 2016, 230, 955-975.	1.4	9
25	Mechanism of Zeolite Hydrolysis under Basic Conditions. Chemistry of Materials, 2021, 33, 9202-9212.	3.2	9
26	Structure and stability of charged clusters. Journal of Physics Condensed Matter, 2012, 24, 284130.	0.7	8
27	Structure Determination of the Oxygen Evolution Catalyst M <sub>4</sub> ssbauerite. Journal of Physical Chemistry C, 2019, 123, 25157-25165.	1.5	7
28	Migration of zeolite-encapsulated Pt and Au under reducing environments. Catalysis Science and Technology, 2022, 12, 1598-1609.	2.1	4
29	Tuning the Reactivity of Ultrathin Oxides: NO Adsorption on Monolayer FeO(111). Angewandte Chemie, 2016, 128, 9413-9417.	1.6	2
30	Nanopartikel auf subnanometer d <sub>1/4</sub> nnen oxidischen Filmen: Skalierung von Modellsystemen. Angewandte Chemie, 2021, 133, 5954-5961.	1.6	2
31	Global Optimisation Strategies for Nanoalloys. Challenges and Advances in Computational Chemistry and Physics, 2017, , 1-52.	0.6	1
32	Optical Absorption: Optical Absorption of Small Palladium-Doped Gold Clusters (Part. Part. Syst.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	1.2	0
33	Correction to Mechanism of Zeolite Hydrolysis under Basic Conditions. Chemistry of Materials, 0, , .	3.2	0