Joakim Halldin Stenlid

List of Publications by Year in Descending Order

43 papers	630 citations	14 h-index	23 g-index
47 ext. papers	864 ext. citations	8.3 avg, IF	4.67 L-index

#	Paper	IF	Citations
43	Vernier template synthesis of molecular knots.. *Science*, **2022**, 375, 1035-1041	33.3	3
42	Trends in oxygenate/hydrocarbon selectivity for electrochemical CO reduction to C products.. *Nature Communications*, **2022**, 13, 1399	17.4	6
41	The state of zinc in methanol synthesis over a Zn/ZnO/Cu(211) model catalyst.. *Science*, **2022**, 376, 603-608	33.3	7
40	Modeling Potential-Dependent Electrochemical Activation Barriers: Revisiting the Alkaline Hydrogen Evolution Reaction. *Journal of the American Chemical Society*, **2021**, 143, 19341-19355	16.4	7
39	Properties of interfaces between copper and copper sulphide/oxide films. *Corrosion Science*, **2021**, 183, 109313	6.8	3
38	Chemisorbed oxygen or surface oxides steer the selectivity in Pd electrocatalytic propene oxidation observed by operando Pd L-edge X-ray absorption spectroscopy. *Catalysis Science and Technology*, **2021**, 11, 3347-3352	5.5	1
37	The Role of Roughening to Enhance Selectivity to C2+ Products during CO2 Electroreduction on Copper. *ACS Energy Letters*, **2021**, 6, 3252-3260	20.1	4
36	Acetic acid conversion to ketene on Cu2O(1 0 0): Reaction mechanism deduced from experimental observations and theoretical computations. *Journal of Catalysis*, **2021**, 402, 154-165	7.3	2
35	Utilizing the Surface Electrostatic Potential to Predict the Interactions of Pt and Ni Nanoparticles with Lewis Acids and Bases: Lumps and Holes Govern the Catalytic Activities. *Journal of Physical Chemistry C*, **2020**, 124, 14696-14705	3.8	5
34	Electrochemical Interface during Corrosion of Copper in Anoxic Sulfide-Containing Groundwater: A Computational Study. *Journal of Physical Chemistry C*, **2020**, 124, 469-481	3.8	6
33	Photodriven CO dimerization on Cu2O from an electronic-structure perspective. *Sustainable Energy and Fuels*, **2020**, 4, 670-677	5.8	
32	Uncovering the electrochemical interface of low-index copper surfaces in deep groundwater environments. *Electrochimica Acta*, **2020**, 362, 137111	6.7	3
31	Key activity descriptors of nickel-iron oxygen evolution electrocatalysts in the presence of alkali metal cations. *Nature Communications*, **2020**, 11, 6181	17.4	25
30	Nanoscale Spatial Distribution of Supported Nanoparticles Controls Activity and Stability in Powder Catalysts for CO Oxidation and Photocatalytic H Evolution. *Journal of the American Chemical Society* , **2020**, 142, 14481-14494	16.4	12
29	Tying different knots in a molecular strand. *Nature*, **2020**, 584, 562-568	50.4	31
28	Interaction of Atomic Hydrogen with the Cu2O(100) and (111) Surfaces. *Journal of Physical Chemistry C*, **2019**, 123, 22172-22180	3.8	8
27	On the Nature of the Cathodic Reaction during Corrosion of Copper in Anoxic Sulfide Solutions. *Journal of the Electrochemical Society*, **2019**, 166, C196-C208	3.9	5

26	The Surface Structure of Cu2O(100): Nature of Defects. *Journal of Physical Chemistry C*, **2019**, 123, 7696-7704	3.8	8
25	Adsorption and Decomposition of Ethanol on Cu2O(111) and (100). *Journal of Physical Chemistry C*, **2019**, 123, 20384-20392	3.8	4
24	Ab Initio Cyclic Voltammetry on Cu(111), Cu(100) and Cu(110) in Acidic, Neutral and Alkaline Solutions. *ChemPhysChem*, **2019**, 20, 3096-3105	3.2	36
23	The local electron attachment energy and the electrostatic potential as descriptors of surface-adsorbate interactions. *Physical Chemistry Chemical Physics*, **2019**, 21, 17001-17009	3.6	7
22	High-Density Isolated FeO Sites on a Single-Crystal CuO(100) Surface. *Journal of Physical Chemistry Letters*, **2019**, 10, 7318-7323	6.4	6
21	Amorphous, Periodic Model of a Copper Electrocatalyst with Subsurface Oxygen for Enhanced CO Coverage and Dimerization. *Journal of Physical Chemistry C*, **2019**, 123, 4961-4968	3.8	11
20	The Molecular Surface Property Approach: A Guide to Chemical Interactions in Chemistry, Medicine, and Material Science. *Advanced Theory and Simulations*, **2019**, 2, 1800149	3.5	15
19	Theoretical Investigation into Rate-Determining Factors in Electrophilic Aromatic Halogenation. *Journal of Physical Chemistry A*, **2018**, 122, 3270-3279	2.8	18
18	Holes and lumps direct the Lewis basic and acidic interactions of noble metal nanoparticles: introducing regium bonds. *Physical Chemistry Chemical Physics*, **2018**, 20, 2676-2692	3.6	58
17	Nucleophilic Aromatic Substitution Reactions Described by the Local Electron Attachment Energy. *Journal of Organic Chemistry*, **2017**, 82, 3072-3083	4.2	29
16	Interaction of Sulfur Dioxide and Near-Ambient Pressures of Water Vapor with Cuprous Oxide Surfaces. *Journal of Physical Chemistry C*, **2017**, 121, 24011-24024	3.8	10
15	On the Kinetic and Thermodynamic Properties of Aryl Radicals Using Electrochemical and Theoretical Approaches. *ChemElectroChem*, **2017**, 4, 3212-3221	4.3	10
14	Computational analysis of the early stage of cuprous oxide sulphidation: a top-down process. *Corrosion Engineering Science and Technology*, **2017**, 52, 50-53	1.7	10
13	Mechanism and regioselectivity of electrophilic aromatic nitration in solution: the validity of the transition state approach. *Journal of Molecular Modeling*, **2017**, 24, 15	2	16
12	Extending the Hole Concept to Metals: An Electrostatic Interpretation of the Effects of Nanostructure in Gold and Platinum Catalysis. *Journal of the American Chemical Society*, **2017**, 139, 11012-11015	16.4	97
11	Local Lewis Acidity of (TiO2)n (n = 7 10) Nanoparticles Characterized by DFT-Based Descriptors: Tools for Catalyst Design. *Journal of Physical Chemistry C*, **2017**, 121, 27483-27492	3.8	8
10	Dehydrogenation of methanol on CuO(100) and (111). *Journal of Chemical Physics*, **2017**, 146, 244702	3.9	17
9	Holes on Transition Metal Nanoclusters and Their Influence on the Local Lewis Acidity. *Crystals*, **2017**, 7, 222	2.3	14

8	Reactivity at the CuO(100):Cu-HO interface: a combined DFT and PES study. *Physical Chemistry Chemical Physics*, **2016**, 18, 30570-30584	3.6	20
7	Aqueous Solvation and Surface Oxidation of the Cu7 Nanoparticle: Insights from Theoretical Modeling. *Journal of Physical Chemistry C*, **2016**, 120, 1977-1988	3.8	11
6	The Surface Structure of Cu2O(100). *Journal of Physical Chemistry C*, **2016**, 120, 4373-4381	3.8	36
5	Local Electron Attachment Energy and Its Use for Predicting Nucleophilic Reactions and Halogen Bonding. *Journal of Physical Chemistry A*, **2016**, 120, 10023-10032	2.8	22
4	Searching for the thermodynamic limit--a DFT study of the step-wise water oxidation of the bipyramidal Cu7 cluster. *Physical Chemistry Chemical Physics*, **2014**, 16, 2452-64	3.6	21
3	Poly(styrene) Resin-Supported Cobalt(III) Salen Cyclic Oligomers as Active Heterogeneous HKR Catalysts. *Advanced Synthesis and Catalysis*, **2012**, 354, 3016-3024	5.6	8
2	Stabilization of Cu2O through Site-Selective Formation of a Co1Cu Hybrid Single-Atom Catalyst. *Chemistry of Materials*,	9.6	1
1	Exploring Trends on Coupling Mechanisms toward C3 Product Formation in CO(2)R. *Journal of Physical Chemistry C*,	3.8	4