

Joakim Halldin Stenlid

List of Publications by Year in descending order

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45
papers

1,202
citations

361388

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395678

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47
all docs

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docs citations

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times ranked

1258
citing authors

#	ARTICLE	IF	CITATIONS
1	Extending the $\bar{I}f$ -Hole Concept to Metals: An Electrostatic Interpretation of the Effects of Nanostructure in Gold and Platinum Catalysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 11012-11015.	13.7	136
2	$\bar{I}f$ -Holes and $\bar{I}f$ -lumps direct the Lewis basic and acidic interactions of noble metal nanoparticles: introducing regium bonds. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2676-2692.	2.8	99
3	Key activity descriptors of nickel-iron oxygen evolution electrocatalysts in the presence of alkali metal cations. <i>Nature Communications</i> , 2020, 11, 6181.	12.8	80
4	Tying different knots in a molecular strand. <i>Nature</i> , 2020, 584, 562-568.	27.8	74
5	The state of zinc in methanol synthesis over a Zn/ZnO/Cu(211) model catalyst. <i>Science</i> , 2022, 376, 603-608.	12.6	65
6	Trends in oxygenate/hydrocarbon selectivity for electrochemical CO(2) reduction to C2 products. <i>Nature Communications</i> , 2022, 13, 1399.	12.8	56
7	Ab Initio Cyclic Voltammetry on Cu(111), Cu(100) and Cu(110) in Acidic, Neutral and Alkaline Solutions. <i>ChemPhysChem</i> , 2019, 20, 3096-3105.	2.1	48
8	The Surface Structure of Cu ₂ O(100). <i>Journal of Physical Chemistry C</i> , 2016, 120, 4373-4381.	3.1	46
9	Nucleophilic Aromatic Substitution Reactions Described by the Local Electron Attachment Energy. <i>Journal of Organic Chemistry</i> , 2017, 82, 3072-3083.	3.2	38
10	The Role of Roughening to Enhance Selectivity to C ₂₊ Products during CO ₂ Electroreduction on Copper. <i>ACS Energy Letters</i> , 2021, 6, 3252-3260.	17.4	38
11	The Molecular Surface Property Approach: A Guide to Chemical Interactions in Chemistry, Medicine, and Material Science. <i>Advanced Theory and Simulations</i> , 2019, 2, 1800149.	2.8	36
12	Catalytic Performance and Near-Surface X-ray Characterization of Titanium Hydride Electrodes for the Electrochemical Nitrate Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2022, 144, 5739-5744.	13.7	31
13	Vernier template synthesis of molecular knots. <i>Science</i> , 2022, 375, 1035-1041.	12.6	31
14	Mechanism and regioselectivity of electrophilic aromatic nitration in solution: the validity of the transition state approach. <i>Journal of Molecular Modeling</i> , 2018, 24, 15.	1.8	29
15	Local Electron Attachment Energy and Its Use for Predicting Nucleophilic Reactions and Halogen Bonding. <i>Journal of Physical Chemistry A</i> , 2016, 120, 10023-10032.	2.5	27
16	Nanoscale Spatial Distribution of Supported Nanoparticles Controls Activity and Stability in Powder Catalysts for CO Oxidation and Photocatalytic H ₂ Evolution. <i>Journal of the American Chemical Society</i> , 2020, 142, 14481-14494.	13.7	25
17	Modeling Potential-Dependent Electrochemical Activation Barriers: Revisiting the Alkaline Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2021, 143, 19341-19355.	13.7	25
18	Searching for the thermodynamic limit $\hat{\epsilon}$: a DFT study of the step-wise water oxidation of the bipyramidal Cu ₇ cluster. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2452-2464.	2.8	24

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19	Dehydrogenation of methanol on Cu ₂ O(100) and (111). <i>Journal of Chemical Physics</i> , 2017, 146, 244702.	3.0	23
20	Theoretical Investigation into Rate-Determining Factors in Electrophilic Aromatic Halogenation. <i>Journal of Physical Chemistry A</i> , 2018, 122, 3270-3279.	2.5	22
21	Reactivity at the Cu ₂ O(100):Cu-H ₂ O interface: a combined DFT and PES study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 30570-30584.	2.8	21
22	Exploring Trends on Coupling Mechanisms toward C ₃ Product Formation in CO ₂ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 26437-26447.	3.1	18
23	Ƴf-Holes on Transition Metal Nanoclusters and Their Influence on the Local Lewis Acidity. <i>Crystals</i> , 2017, 7, 222.	2.2	16
24	Local Lewis Acidity of (TiO ₂) _n (n = 7-10) Nanoparticles Characterized by DFT-Based Descriptors: Tools for Catalyst Design. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27483-27492.	3.1	14
25	Computational analysis of the early stage of cuprous oxide sulphidation: a top-down process. <i>Corrosion Engineering Science and Technology</i> , 2017, 52, 50-53.	1.4	13
26	The Surface Structure of Cu ₂ O(100): Nature of Defects. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7696-7704.	3.1	13
27	Interaction of Atomic Hydrogen with the Cu ₂ O(100) and (111) Surfaces. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22172-22180.	3.1	13
28	Utilizing the Surface Electrostatic Potential to Predict the Interactions of Pt and Ni Nanoparticles with Lewis Acids and Bases—Ƴf-Lumps and Ƴf-Holes Govern the Catalytic Activities. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14696-14705.	3.1	13
29	Amorphous, Periodic Model of a Copper Electrocatalyst with Subsurface Oxygen for Enhanced CO Coverage and Dimerization. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4961-4968.	3.1	13
30	Aqueous Solvation and Surface Oxidation of the Cu ₇ Nanoparticle: Insights from Theoretical Modeling. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1977-1988.	3.1	12
31	On the Kinetic and Thermodynamic Properties of Aryl Radicals Using Electrochemical and Theoretical Approaches. <i>ChemElectroChem</i> , 2017, 4, 3212-3221.	3.4	12
32	Interaction of Sulfur Dioxide and Near-Ambient Pressures of Water Vapor with Cuprous Oxide Surfaces. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24011-24024.	3.1	11
33	Adsorption and Decomposition of Ethanol on Cu ₂ O(111) and (100). <i>Journal of Physical Chemistry C</i> , 2019, 123, 20384-20392.	3.1	11
34	The local electron attachment energy and the electrostatic potential as descriptors of surface-adsorbate interactions. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17001-17009.	2.8	10
35	Properties of interfaces between copper and copper sulphide/oxide films. <i>Corrosion Science</i> , 2021, 183, 109313.	6.6	9
36	Poly(styrene) Resin-Supported Cobalt(III) Salen Cyclic Oligomers as Active Heterogeneous HKR Catalysts. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 3016-3024.	4.3	8

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37	High-Density Isolated Fe ₁ O ₃ Sites on a Single-Crystal Cu ₂ O(100) Surface. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7318-7323.	4.6	8
38	Electrochemical Interface during Corrosion of Copper in Anoxic Sulfide-Containing Groundwater—A Computational Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 469-481.	3.1	8
39	On the Nature of the Cathodic Reaction during Corrosion of Copper in Anoxic Sulfide Solutions. <i>Journal of the Electrochemical Society</i> , 2019, 166, C196-C208.	2.9	6
40	Chemisorbed oxygen or surface oxides steer the selectivity in Pd electrocatalytic propene oxidation observed by <i>in operando</i> Pd L-edge X-ray absorption spectroscopy. <i>Catalysis Science and Technology</i> , 2021, 11, 3347-3352.	4.1	6
41	Uncovering the electrochemical interface of low-index copper surfaces in deep groundwater environments. <i>Electrochimica Acta</i> , 2020, 362, 137111.	5.2	5
42	Stabilization of Cu ₂ O through Site-Selective Formation of a Co ₁ Cu Hybrid Single-Atom Catalyst. <i>Chemistry of Materials</i> , 2022, 34, 2313-2320.	6.7	5
43	Acetic acid conversion to ketene on Cu ₂ O(1 0 0): Reaction mechanism deduced from experimental observations and theoretical computations. <i>Journal of Catalysis</i> , 2021, 402, 154-165.	6.2	3
44	Chemical Reactivity: The Molecular Surface Property Approach: A Guide to Chemical Interactions in Chemistry, Medicine, and Material Science (<i>Adv. Theory Simul.</i> 1/2019). <i>Advanced Theory and Simulations</i> , 2019, 2, 1970003.	2.8	1
45	Photodriven CO dimerization on Cu ₂ O from an electronic-structure perspective. <i>Sustainable Energy and Fuels</i> , 2020, 4, 670-677.	4.9	0