

Kari Laasonen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

4,702
citations

31
h-index

51
g-index

51
ext. papers

5,000
ext. citations

5.3
avg. IF

5.29
L-index

#	Paper	IF	Citations
51	Designing of low Pt electrocatalyst through immobilization on metal@C support for efficient hydrogen evolution reaction in acidic media. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 896, 115076	4.1	4
50	Coupling Surface Coverage and Electrostatic Effects on the Interfacial Adlayer Water Structure of Hydrogenated Single-Crystal Platinum Electrodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 13706-13714	3.8	10
49	Revisiting the Volmer-Heyrovský mechanism of hydrogen evolution on a nitrogen doped carbon nanotube: constrained molecular dynamics versus the nudged elastic band method. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 10536-10549	3.6	21
48	Hydrogen Evolution Reaction on the Single-Shell Carbon-Encapsulated Iron Nanoparticle: A Density Functional Theory Insight. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 13569-13577	3.8	10
47	Computational exploration of Fe ₅₅ @C ₂₄₀ -catalyzed Fischer-Tropsch synthesis. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 2741-2753	3.6	2
46	Oxygen Evolution Reaction on Nitrogen-Doped Defective Carbon Nanotubes and Graphene. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 25882-25892	3.8	46
45	Experimental and Computational Investigation of Hydrogen Evolution Reaction Mechanism on Nitrogen Functionalized Carbon Nanotubes. <i>ChemCatChem</i> , 2018 , 10, 3872-3882	5.2	11
44	Fe ₅₅ Ni Nanoparticles: A Multiscale First-Principles Study to Predict Geometry, Structure, and Catalytic Activity. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 1667-1674	3.8	17
43	Electrochemical Activation of Single-Walled Carbon Nanotubes with Pseudo-Atomic-Scale Platinum for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2017 , 7, 3121-3130	13.1	216
42	Functionalized Carbon Nanotubes with Ni(II) Bipyridine Complexes as Efficient Catalysts for the Alkaline Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2017 , 7, 8033-8041	13.1	46
41	Maghemite nanoparticles decorated on carbon nanotubes as efficient electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5216-5222	13	55
40	Charge distribution and Fermi level in bimetallic nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 2924-31	3.6	34
39	Ab Initio Electrochemistry: Exploring the Hydrogen Evolution Reaction on Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16166-16178	3.8	32
38	Theoretical Insight into the Hydrogen Evolution Activity of Open-Ended Carbon Nanotubes. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3956-60	6.4	25
37	Single-shell carbon-encapsulated iron nanoparticles: synthesis and high electrocatalytic activity for hydrogen evolution reaction. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4535-8	16.4	238
36	The molecular and magnetic structure of carbon-enclosed and partially covered Fe ₅₅ particles. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 3648-60	3.6	15
35	Competition between Icosahedral Motifs in AgCu, AgNi, and AgCo Nanoalloys: A Combined Atomistic/DFT Study. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 26405-26413	3.8	110

34	Experimental and computational studies of nitrogen doped Degussa P25 TiO ₂ : application to visible-light driven photo-oxidation of As(III). <i>Catalysis Science and Technology</i> , 2012 , 2, 784	5.5	32
33	Synthesis, structure, and complexation properties of hydroxybenzyl analogs of diethylenetriaminepentaacetic acid. <i>Journal of Coordination Chemistry</i> , 2010 , 63, 2026-2041	1.6	
32	Theoretical Study of the Hydrolysis of Pentameric Aluminum Complexes. <i>Journal of Chemical Theory and Computation</i> , 2010 , 6, 993-1007	6.4	17
31	Mechanism study of floating catalyst CVD synthesis of SWCNTs. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2708-2712	1.3	6
30	CO dissociation and CO+O reactions on a nanosized iron cluster. <i>Nano Research</i> , 2009 , 2, 660-670	10	36
29	CO Disproportionation on a Nanosized Iron Cluster. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 12939-12942	4.2	13
28	Density functional studies of the hydrolysis of aluminum (chloro)hydroxide in water with CPMD and COSMO. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 10873-80	2.8	17
27	A density functional study on water-sulfuric acid-ammonia clusters and implications for atmospheric cluster formation. <i>Journal of Geophysical Research</i> , 2007 , 112,		102
26	Ab initio molecular dynamics study of a mixture of HF(aq) and HCl(aq). <i>Journal of Physical Chemistry B</i> , 2006 , 110, 12699-706	3.4	8
25	Coadsorption of CO and O ₂ on Pd(1 1 1). <i>Chemical Physics</i> , 2005 , 314, 19-24	2.3	7
24	Partially and fully deprotonated sulfuric acid in H ₂ SO ₄ (H ₂ O) _n (n=6-9) clusters. <i>Chemical Physics Letters</i> , 2004 , 390, 307-313	2.5	35
23	Structure and dynamics of concentrated hydrochloric acid solutions. A first principles molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 555-565	3.6	25
22	Nuclear magnetic shielding and quadrupole coupling tensors in liquid water: a combined molecular dynamics simulation and quantum chemical study. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11093-102	16.4	57
21	Reliable potential for small sulfuric acid-water clusters. <i>Chemical Physics</i> , 2003 , 287, 7-19	2.3	35
20	Density functional complexation study of metal ions with (amino) polycarboxylic acid ligands. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 3382-3393	3.6	37
19	Two Sulfuric Acids in Small Water Clusters. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 8648-8658	2.8	68
18	Structural and Spectral Properties of Aqueous Hydrogen Fluoride Studied Using ab Initio Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 11315-11322	3.4	41
17	Coadsorption of CO and NO on the Pd(111) surface: combined ab initio and Monte Carlo study. <i>Physical Review Letters</i> , 2001 , 86, 5942-5	7.4	28

16	Ab initio study of O ₂ precursor states on the Pd(111) surface. <i>Journal of Chemical Physics</i> , 2001 , 115, 2297-2302	3.9	70
15	CO and NO adsorption and co-adsorption on the Pd(1 1 1) surface. <i>Surface Science</i> , 2001 , 489, 72-82	1.8	53
14	Oxygen molecule dissociation on the Al(111) surface. <i>Physical Review Letters</i> , 2000 , 84, 705-8	7.4	99
13	Ab initio study of gas-phase sulphuric acid hydrates containing 1 to 3 water molecules. <i>Journal of Chemical Physics</i> , 1998 , 108, 1031-1039	3.9	110
12	The torsional potential of perfluoro n-alkanes: A density functional study. <i>Journal of Chemical Physics</i> , 1996 , 104, 3692-3700	3.9	48
11	Ab initio molecular dynamics study of dilute hydrofluoric acid. <i>Molecular Physics</i> , 1996 , 88, 135-142	1.7	35
10	Ab Initio Molecular Dynamics Simulation of the Solvation and Transport of H ₃ O ⁺ and OH ⁻ Ions in Water. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 5749-5752		493
9	Structure of CaI ₂ . <i>Journal of Chemical Physics</i> , 1995 , 103, 8075-8080	3.9	25
8	Structural dynamics of protonated methane and acetylene. <i>Physical Review Letters</i> , 1995 , 74, 876-879	7.4	34
7	Ab Initio Molecular Dynamics Study of Hydrochloric Acid in Water. <i>Journal of the American Chemical Society</i> , 1994 , 116, 11620-11621	16.4	80
6	Car-Parrinello molecular dynamics with Vanderbilt ultrasoft pseudopotentials. <i>Physical Review B</i> , 1993 , 47, 10142-10153	3.3	1181
5	Ab initio molecular dynamics: application to liquid copper. <i>Computational Materials Science</i> , 1993 , 1, 419-427		327
4	Ab initio studies on the structural and dynamical properties of ice. <i>Physical Review B</i> , 1993 , 47, 4863-4873	3.3	149
3	Ab initio studies on high pressure phases of ice. <i>Physical Review Letters</i> , 1992 , 69, 462-465	7.4	154
2	Ab initio molecular dynamics for d-electron systems: Liquid copper at 1500 K. <i>Physical Review Letters</i> , 1992 , 69, 1982-1985	7.4	333
1	Implementation of ultrasoft pseudopotentials in ab initio molecular dynamics. <i>Physical Review B</i> , 1991 , 43, 6796-6799	3.3	382