

Lei Li

List of Publications by Year in descending order

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29
papers

2,297
citations

257450

24
h-index

477307

29
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docs citations

29
times ranked

3732
citing authors

#	ARTICLE	IF	CITATIONS
1	MoS ₂ /MX ₂ heterobilayers: bandgap engineering <i>via</i> tensile strain or external electrical field. <i>Nanoscale</i> , 2014, 6, 2879-2886.	5.6	326
2	A Theoretical Study of Single-Atom Catalysis of CO Oxidation Using Au Embedded 2D h-BN Monolayer: A CO-Promoted O ₂ Activation. <i>Scientific Reports</i> , 2014, 4, 5441.	3.3	211
3	CO Self-Promoting Oxidation on Nanosized Gold Clusters: Triangular Au ₃ Active Site and CO Induced O-O Scission. <i>Journal of the American Chemical Society</i> , 2013, 135, 2583-2595.	13.7	178
4	Single Iridium Atom Doped Ni ₂ P Catalyst for Optimal Oxygen Evolution. <i>Journal of the American Chemical Society</i> , 2021, 143, 13605-13615.	13.7	162
5	Controlling Catalytic Properties of Pd Nanoclusters through Their Chemical Environment at the Atomic Level Using Isorecticular Metal-Organic Frameworks. <i>ACS Catalysis</i> , 2016, 6, 3461-3468.	11.2	152
6	CO Oxidation on TiO ₂ (110) Supported Subnanometer Gold Clusters: Size and Shape Effects. <i>Journal of the American Chemical Society</i> , 2013, 135, 19336-19346.	13.7	127
7	New Mechanistic Pathways for Criegee Water Chemistry at the Air/Water Interface. <i>Journal of the American Chemical Society</i> , 2016, 138, 11164-11169.	13.7	111
8	Tuning the electronic properties of monolayer and bilayer PtSe ₂ <i>via</i> strain engineering. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3106-3112.	5.5	96
9	Near-Barrierless Ammonium Bisulfate Formation <i>via</i> a Loop-Structure Promoted Proton-Transfer Mechanism on the Surface of Water. <i>Journal of the American Chemical Society</i> , 2016, 138, 1816-1819.	13.7	93
10	Magic-Number Gold Nanoclusters with Diameters from 1 to 3.5 nm: Relative Stability and Catalytic Activity for CO Oxidation. <i>Nano Letters</i> , 2015, 15, 682-688.	9.1	92
11	Characterizing hydrophobicity of amino acid side chains in a protein environment <i>via</i> measuring contact angle of a water nanodroplet on planar peptide network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12946-12951.	7.1	87
12	Tuning thermal contact conductance at graphene-copper interface <i>via</i> surface nanoengineering. <i>Nanoscale</i> , 2015, 7, 6286-6294.	5.6	85
13	Formation of HONO from the NH ₃ -promoted hydrolysis of NO ₂ dimers in the atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7236-7241.	7.1	67
14	PtPd(111) Surface versus PtAu(111) Surface: Which One Is More Active for Methanol Oxidation?. <i>ACS Catalysis</i> , 2018, 8, 132-143.	11.2	56
15	Interaction of the NH ₂ Radical with the Surface of a Water Droplet. <i>Journal of the American Chemical Society</i> , 2015, 137, 12070-12078.	13.7	52
16	Kinetic and mechanistic investigations of the direct synthesis of dimethyl carbonate from carbon dioxide over ceria nanorod catalysts. <i>Journal of Catalysis</i> , 2016, 340, 295-301.	6.2	50
17	Direct Simulation Evidence of Generation of Oxygen Vacancies at the Golden Cage Au ₁₆ and TiO ₂ (110) Interface for CO Oxidation. <i>Journal of the American Chemical Society</i> , 2014, 136, 15857-15860.	13.7	48
18	High-Performance Ru ₁ /CeO ₂ Single-Atom Catalyst for CO Oxidation: A Computational Exploration. <i>ChemPhysChem</i> , 2016, 17, 3170-3175.	2.1	47

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19	Interaction of SO ₂ with the Surface of a Water Nanodroplet. Journal of the American Chemical Society, 2017, 139, 17168-17174.	13.7	46
20	Simulation Evidence of Hexagonal to Tetragonal ZnSe Structure Transition: A Monolayer Material with a Wide Range Tunable Direct Bandgap. Advanced Science, 2015, 2, 1500290.	11.2	44
21	An octane-fueled low temperature solid oxide fuel cell with Ru-free anodes. Electrochemistry Communications, 2008, 10, 1295-1298.	4.7	40
22	Revealing the Intrinsic Atomic Structure and Chemistry of Amorphous LiO ₂ -Containing Products in LiO ₂ Batteries Using Cryogenic Electron Microscopy. Journal of the American Chemical Society, 2022, 144, 2129-2136.	13.7	28
23	High performance Ni-Sm ₂ O ₃ cermet anodes for intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2009, 187, 400-402.	7.8	26
24	Carbon Nanotube Superarchitectures: An Ab Initio Study. Journal of Physical Chemistry C, 2011, 115, 18174-18185.	3.1	25
25	Adaptive kinetic Monte Carlo simulations of surface segregation in PdAu nanoparticles. Nanoscale, 2019, 11, 10524-10535.	5.6	25
26	Pair-distribution-function guided optimization of fingerprints for atom-centered neural network potentials. Journal of Chemical Physics, 2020, 152, 224102.	3.0	8
27	Structure transition of Au ₁₈ from pyramidal to a hollow-cage during soft-landing onto a TiO ₂ (110) surface. Chemical Communications, 2015, 51, 9535-9538.	4.1	7
28	Resolving the HONO formation mechanism in the ionosphere via ab initio molecular dynamic simulations. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4629-4633.	7.1	4
29	Twist-to-Untwist Evolution and Cation Polarization Behavior of Hybrid Halide Perovskite Nanoplatelets Revealed by Cryogenic Transmission Electron Microscopy. Journal of Physical Chemistry Letters, 2021, 12, 12187-12195.	4.6	4