Jinggang Lan

List of Publications by Year
in descending order

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23	854	623734	677142
papers	citations	14 h-index	22 g-index

34	34	34	1065
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanoscale Chemical Imaging of Coadsorbed Thiolate Self-Assembled Monolayers on Au(111) by Tip-Enhanced Raman Spectroscopy. Analytical Chemistry, 2022, 94, 1645-1653.	6.5	5
2	Dynamics and control of active sites in hierarchically nanostructured cobalt phosphide/chalcogenide-based electrocatalysts for water splitting. Energy and Environmental Science, 2022, 15, 727-739.	30.8	96
3	Nuclear quantum effects at aqueous metal interfaces captured by molecular dynamics simulations. Current Opinion in Electrochemistry, 2022, 33, 100934.	4.8	2
4	Shallow and deep trap states of solvated electrons in methanol and their formation, electronic excitation, and relaxation dynamics. Chemical Science, 2022, 13, 3837-3844.	7.4	9
5	Effect of the alkyl linker length on the photoisomerization of hydrazone switches on metal surfaces. Materials Today Chemistry, 2022, 24, 100797.	3.5	4
6	Toward High-level Machine Learning Potential for Water Based on Quantum Fragmentation and Neural Networks. Journal of Physical Chemistry A, 2022, 126, 3926-3936.	2.5	11
7	In situ spectroelectrochemical probing of CO redox landscape on copper single-crystal surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	27
8	Simulating the ghost: quantum dynamics of the solvated electron. Nature Communications, 2021, 12, 766.	12.8	36
9	CO2 adsorption on the pristine and reduced CeO2 (111) surface: Geometries and vibrational spectra by first principles simulations. Journal of Chemical Physics, 2021, 154, 094702.	3.0	11
10	Modeling Electrified Pt(111)-H_{ad}/Water Interfaces from Ab Initio Molecular Dynamics. Jacs Au, 2021, 1, 569-577.	7.9	56
11	In-situ nanospectroscopic imaging of plasmon-induced two-dimensional [4+4]-cycloaddition polymerization on Au(111). Nature Communications, 2021, 12, 4557.	12.8	24
12	Efficient Quantum Vibrational Spectroscopy of Water with High-Order Path Integrals: From Bulk to Interfaces. Journal of Physical Chemistry Letters, 2021, 12, 9108-9114.	4.6	9
13	Bifunctional Single Atom Electrocatalysts: Coordinationâ€“Performance Correlations and Reaction Pathways. ACS Nano, 2020, 14, 13279-13293.	14.6	107
14	Inexpensive modeling of quantum dynamics using path integral generalized Langevin equation thermostats. Journal of Chemical Physics, 2020, 152, 124104.	3.0	26
15	Ionization of Water as an Effect of Quantum Delocalization at Aqueous Electrode Interfaces. Journal of Physical Chemistry Letters, 2020, 11, 3724-3730.	4.6	39
16	Solution Phase and Surface Photoisomerization of a Hydrazone Switch with a Long Thermal Half-Life. Journal of the American Chemical Society, 2019, 141, 17637-17645.	13.7	30
17	Pure Siliceous Zeolite-Supported Ru Single-Atom Active Sites for Ammonia Synthesis. Chemistry of Materials, 2019, 31, 9413-9421.	6.7	83
18	Theoretical Study of NO Dissociation on an Open Flat Ru(101Ì…1) Surface. Journal of Physical Chemistry C, 2019, 123, 5488-5494.	3.1	0

#	Article	IF	Citations
19	Characterization of the Platinumâ€“Hydrogen Bond by Surface-Sensitive Time-Resolved Infrared Spectroscopy. Journal of Physical Chemistry Letters, 2018, 9, 1254-1259.	4.6	38
20	First-Principles Simulations of an Aqueous CO/Pt(111) Interface. Journal of Physical Chemistry C, 2018, 122, 24068-24076.	3.1	35
21	Monitoring surface transformations of metal carbodiimide water oxidation catalysts by operando XAS and Raman spectroscopy. Dalton Transactions, 2018, 47, 10759-10766.	3.3	11
22	Origin of Efficient Catalytic Combustion of Methane over Co₃O₄(110): Active Low-Coordination Lattice Oxygen and Cooperation of Multiple Active Sites. ACS Catalysis, 2016, 6, 5508-5519.	11.2	116
23	Ultralow-temperature CO oxidation on an In₂O₃â€“Co₃O₄ catalyst: a strategy to tune CO adsorption strength and oxygen activation simultaneously. Chemical Communications, 2014, 50, 6835-6838.	4.1	73