

Thorsten

List of Publications by Year in descending order

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28
papers

751
citations

567281

15
h-index

501196

28
g-index

31
all docs

31
docs citations

31
times ranked

594
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas-phase kinetics and catalytic reactions of small silver and gold clusters. <i>International Journal of Mass Spectrometry</i> , 2005, 243, 1-29.	1.5	228
2	Selective C-H Bond Cleavage in Methane by Small Gold Clusters. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13406-13410.	13.8	71
3	Temperature-Tunable Selective Methane Catalysis on Au ₂ ⁺ : From Cryogenic Partial Oxidation Yielding Formaldehyde to Cold Ethylene Production. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6788-6795.	3.1	57
4	Activation and Catalytic Dehydrogenation of Methane on Small Pd _x ⁺ and Pd _x O ⁺ Clusters. <i>Journal of Physical Chemistry C</i> , 2013, 117, 9791-9800.	3.1	48
5	Dimensionality Dependent Water Splitting Mechanisms on Free Manganese Oxide Clusters. <i>Nano Letters</i> , 2013, 13, 5549-5555.	9.1	38
6	The Origin of the Selectivity and Activity of Ruthenium Cluster Catalysts for Fuel Cell Feed Gas Purification: A Gas-Phase Approach. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5467-5471.	13.8	30
7	Cluster size and composition dependent water deprotonation by free manganese oxide clusters. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 15727-15737.	2.8	30
8	Interaction of Iron-Sulfur Clusters with N ₂ : Biomimetic Systems in the Gas Phase. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12549-12558.	3.1	30
9	Femtosecond Laser photoemission and photodesorption from magnesia supported gold clusters. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 1139-1146.	1.5	28
10	The Interaction of Water with Free Mn ₄ O ₄ ⁺ Clusters: Deprotonation and Adsorption-Induced Structural Transformations. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15113-15117.	13.8	24
11	Water Deprotonation via Oxo-Bridge Hydroxylation and ¹⁸ O-Exchange in Free Tetra-Manganese Oxide Clusters. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10881-10887.	3.1	22
12	Comparison of methane activation and catalytic ethylene formation on free gold and palladium dimer cations: product binding determines the catalytic turnover. <i>Catalysis Science and Technology</i> , 2013, 3, 2926.	4.1	19
13	Composition and size dependent methane dehydrogenation on binary gold-palladium clusters. <i>International Journal of Mass Spectrometry</i> , 2013, 354-355, 365-371.	1.5	17
14	Is gold actor or spectator in the reaction of small Au _n Pd _m + clusters with O ₂ ?. <i>European Physical Journal D</i> , 2013, 67, 1.	1.3	15
15	Infrared Spectroscopy of Gas-Phase Mn _x O _y (CO ₂) _z Complexes. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1561-1566.	2.5	13
16	A Gas-Phase Ca _n Mn ₄ O ₄ ⁺ Cluster Model for the Oxygen-Evolving Complex of Photosystem II. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8504-8509.	13.8	10
17	A Gas-Phase Ca _n Mn ₄ O ₄ ⁺ Cluster Model for the Oxygen-Evolving Complex of Photosystem II. <i>Angewandte Chemie</i> , 2019, 131, 8592-8597.	2.0	9
18	Infrared photodissociation spectroscopy of di-manganese oxide cluster cations. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23922-23930.	2.8	8

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19	Co-adsorption of O ₂ and C ₂ H ₄ on a Free Gold Dimer Probed via Infrared Photodissociation Spectroscopy. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1895-1905.	2.8	6
20	Size, Stoichiometry, Dimensionality, and Ca Doping of Manganese Oxide-Based Water Oxidation Clusters: An Oxyl/Hydroxy Mechanism for Oxygen–Oxygen Coupling. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5248-5255.	4.6	5
21	Gas-Phase Synthesis and Structure of Wade-Type Ruthenium Carbonyl and Hydrido Carbonyl Clusters. <i>Journal of Physical Chemistry A</i> , 2014, 118, 8356-8359.	2.5	4
22	Ultrathin magnesia films as support for molecules and metal clusters: Tuning reactivity by thickness and composition. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 1001-1015.	1.5	3
23	Methanol C–O Bond Activation by Free Gold Clusters Probed via Infrared Photodissociation Spectroscopy. <i>Zeitschrift Fur Physikalische Chemie</i> , 2019, 233, 865-880.	2.8	3
24	Energetic Stabilization of Carboxylic Acid Conformers by Manganese Atoms and Clusters. <i>Journal of Physical Chemistry A</i> , 2020, 124, 4990-4997.	2.5	3
25	Cluster Size Dependent Interaction of Free Manganese Oxide Clusters with Acetic Acid and Methyl Acetate. <i>Journal of Physical Chemistry A</i> , 2021, 125, 4435-4445.	2.5	2
26	Nonmetal-to-Metal Transition of Magnesia Supported Au Clusters Affects the Ultrafast Dissociation Dynamics of Adsorbed CH ₃ Br Molecules. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4747-4753.	4.6	1
27	The influence of metal cluster lattices on the screening of image potential state electrons on graphene. <i>Journal of Chemical Physics</i> , 2018, 149, 164706.	3.0	0
28	Intrazeolite CO Methanation by Small Ruthenium Carbonyl Complexes: Translation from Free Clusters into the Cage. <i>ChemCatChem</i> , 2020, 12, 3857-3862.	3.7	0