Min Gao

List of Publications by Year
in descending order

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31 papers	2,363 citations	394421 19 h-index	434195 31 g-index
32 all docs	32 docs citations	32 times ranked	2254 citing authors

#	Article	IF	Citations
1	Photoinduced Copper-Catalyzed Asymmetric Acylation of Allylic Phosphates with Acylsilanes. Journal of the American Chemical Society, 2022, 144, 2218-2224.	13.7	39
2	Doubly linked chiral phenanthrene oligomers for homogeneously Ï€-extended helicenes with large effective conjugation length. Nature Communications, 2022, 13, 1475.	12.8	24
3	Unraveling the promotional effects of NiCo catalysts over defective boron nitride nanosheets in dry reforming of methane. Catalysis Today, 2022, 402, 283-291.	4.4	11
4	Identifying Substrate-Dependent Chemical Bonding Nature at Molecule/Metal Interfaces Using Vibrational Sum Frequency Generation Spectroscopy and Theoretical Calculations. Journal of Physical Chemistry C, 2022, 126, 11298-11309.	3.1	3
5	Catalytic Functionalization of Hexagonal Boron Nitride for Oxidation and Epoxidation Reactions by Molecular Oxygen. Journal of Physical Chemistry C, 2021, 125, 19219-19228.	3.1	2
6	Catalytic Activity of Gold Clusters Supported on the h-BN/Au(111) Surface for the Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2021, 125, 1334-1344.	3.1	17
7	A quantum chemical study of substituent effects on CN bonds in aryl isocyanide molecules adsorbed on the Pt surface. Physical Chemistry Chemical Physics, 2020, 22, 12200-12208.	2.8	4
8	Delocalization Effect Promoted the Indoor Air Purification via Directly Unlocking the Ring-Opening Pathway of Toluene. Environmental Science & Technology, 2020, 54, 9693-9701.	10.0	63
9	Effect of O2 adsorption on the termination of Liâ€“O2 batteries discharge. Electrochimica Acta, 2020, 340, 135977.	5.2	4
10	Selective Catalytic Reduction of NO_x with NH₃ by Using Novel Catalysts: State of the Art and Future Prospects. Chemical Reviews, 2019, 119, 10916-10976.	47.7	1,003
11	Electrostatic Stabilization of Single-Atom Catalysts by Ionic Liquids. CheM, 2019, 5, 3207-3219.	11.7	131
12	Adsorption mediated tandem acid catalyzed cellulose hydrolysis by ortho-substituted benzoic acids. Molecular Catalysis, 2019, 475, 110459.	2.0	6
13	Suppression of pyrite oxidation by ferric-catecholate complexes: An electrochemical study. Minerals Engineering, 2019, 138, 226-237.	4.3	36
14	SO₂-Tolerant Selective Catalytic Reduction of NO_x over Meso-TiO₂@Fe₂O₃@Al₂O₃ Metal-Based Monolith Catalysts. Environmental Science & Technology, 2019, 53, 6462-6473.	10.0	171
15	Fe₂O₃â€“CeO₂@Al₂O₃ Nanoarrays on Al-Mesh as SO₂-Tolerant Monolith Catalysts for NO_x Reduction by NH₃. Environmental Science & Technology, 2019, 53, 5946-5956.	10.0	195
16	<scp>l</scp>-Cysteine-Modified Acacia Gum as a Multifunctional Binder for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 47956-47962.	8.0	16
17	Combined Automated Reaction Pathway Searches and Sparse Modeling Analysis for Catalytic Properties of Lowest Energy Twins of Cu₁₃. Journal of Physical Chemistry A, 2019, 123, 210-217.	2.5	18
18	CO₂ Adsorption on Ti₃O₆^{â€“}: A Novel Carbonate Binding Motif. Journal of Physical Chemistry C, 2019, 123, 8439-8446.	3.1	19

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19	Defect-induced efficient dry reforming of methane over two-dimensional Ni/h-boron nitride nanosheet catalysts. Applied Catalysis B: Environmental, 2018, 238, 51-60.	20.2	118
20	Isomerization in Gold Clusters upon O₂ Adsorption. Journal of Physical Chemistry C, 2017, 121, 2661-2668.	3.1	27
21	Excess charge driven dissociative hydrogen adsorption on Ti₂O₄^â. Physical Chemistry Chemical Physics, 2017, 19, 23154-23161.	2.8	16
22	When Inert Becomes Active: A Fascinating Route for Catalyst Design. Chemical Record, 2016, 16, 2324-2337.	5.8	22
23	Long Range Functionalization of h-BN Monolayer by Carbon Doping. Journal of Physical Chemistry C, 2016, 120, 15993-16001.	3.1	42
24	Reactivity of Gold Clusters in the Regime of Structural Fluxionality. Journal of Physical Chemistry C, 2015, 119, 11120-11130.	3.1	40
25	Application of Automated Reaction Path Search Methods to a Systematic Search of Single-Bond Activation Pathways Catalyzed by Small Metal Clusters: A Case Study on Hâ€“H Activation by Gold. Journal of Chemical Theory and Computation, 2014, 10, 1623-1630.	5.3	28
26	Oxygen activation and dissociation on hâ€BN supported Au atoms. International Journal of Quantum Chemistry, 2013, 113, 443-452.	2.0	39
27	CO oxidation on h-BN supported Au atom. Journal of Chemical Physics, 2013, 138, 034701.	3.0	71
28	The h-BN surface effect on CO oxidation reaction catalyzed by supported gold atom. Journal of Physics: Conference Series, 2013, 438, 012003.	0.4	4
29	Catalytic Activity of Au and Au₂ on the h-BN Surface: Adsorption and Activation of O₂. Journal of Physical Chemistry C, 2012, 116, 9054-9062.	3.1	84
30	DFT Studies on the Mechanisms of the Platinum-Catalyzed Diboration of Acyclic Î±,Î²-Unsaturated Carbonyl Compounds. Organometallics, 2012, 31, 3410-3425.	2.3	72
31	Role of the Support Effects on the Catalytic Activity of Gold Clusters: A Density Functional Theory Study. Catalysts, 2011, 1, 18-39.	3.5	38