

# 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  
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32  
docs citations

32  
times ranked

2254  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective Catalytic Reduction of NO <sub>x</sub> with NH <sub>3</sub> by Using Novel Catalysts: State of the Art and Future Prospects. <i>Chemical Reviews</i> , 2019, 119, 10916-10976.	47.7	1,003
2	Fe <sub>2</sub> O <sub>3</sub> @CeO <sub>2</sub> @Al <sub>2</sub> O <sub>3</sub> Nanoarrays on Al-Mesh as SO <sub>2</sub> -Tolerant Monolith Catalysts for NO <sub>x</sub> Reduction by NH <sub>3</sub> . <i>Environmental Science &amp; Technology</i> , 2019, 53, 5946-5956.	10.0	195
3	SO <sub>2</sub> -Tolerant Selective Catalytic Reduction of NO <sub>x</sub> over Meso-TiO <sub>2</sub> @Fe <sub>2</sub> O <sub>3</sub> @Al <sub>2</sub> O <sub>3</sub> Metal-Based Monolith Catalysts. <i>Environmental Science &amp; Technology</i> , 2019, 53, 6462-6473.	10.0	171
4	Electrostatic Stabilization of Single-Atom Catalysts by Ionic Liquids. <i>CheM</i> , 2019, 5, 3207-3219.	11.7	131
5	Defect-induced efficient dry reforming of methane over two-dimensional Ni/h-boron nitride nanosheet catalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 51-60.	20.2	118
6	Catalytic Activity of Au and Au <sub>2</sub> on the h-BN Surface: Adsorption and Activation of O <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2012, 116, 9054-9062.	3.1	84
7	DFT Studies on the Mechanisms of the Platinum-Catalyzed Diboration of Acyclic $\alpha,\beta$ -Unsaturated Carbonyl Compounds. <i>Organometallics</i> , 2012, 31, 3410-3425.	2.3	72
8	CO oxidation on h-BN supported Au atom. <i>Journal of Chemical Physics</i> , 2013, 138, 034701.	3.0	71
9	Delocalization Effect Promoted the Indoor Air Purification via Directly Unlocking the Ring-Opening Pathway of Toluene. <i>Environmental Science &amp; Technology</i> , 2020, 54, 9693-9701.	10.0	63
10	Long Range Functionalization of h-BN Monolayer by Carbon Doping. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15993-16001.	3.1	42
11	Reactivity of Gold Clusters in the Regime of Structural Fluxionality. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11120-11130.	3.1	40
12	Oxygen activation and dissociation on h-BN supported Au atoms. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 443-452.	2.0	39
13	Photoinduced Copper-Catalyzed Asymmetric Acylation of Allylic Phosphates with Acylsilanes. <i>Journal of the American Chemical Society</i> , 2022, 144, 2218-2224.	13.7	39
14	Role of the Support Effects on the Catalytic Activity of Gold Clusters: A Density Functional Theory Study. <i>Catalysts</i> , 2011, 1, 18-39.	3.5	38
15	Suppression of pyrite oxidation by ferric-catecholate complexes: An electrochemical study. <i>Minerals Engineering</i> , 2019, 138, 226-237.	4.3	36
16	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 H <sub>2</sub> Activation by Gold. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1623-1630.	5.3	28
17	Isomerization in Gold Clusters upon O <sub>2</sub> Adsorption. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2661-2668.	3.1	27
18	Doubly linked chiral phenanthrene oligomers for homogeneously $\pi$ -extended helicenes with large effective conjugation length. <i>Nature Communications</i> , 2022, 13, 1475.	12.8	24

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19	When Inert Becomes Active: A Fascinating Route for Catalyst Design. <i>Chemical Record</i> , 2016, 16, 2324-2337.	5.8	22
20	CO <sub>2</sub> Adsorption on Ti <sub>3</sub> O <sub>6</sub> <sup>+</sup> : A Novel Carbonate Binding Motif. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8439-8446.	3.1	19
21	Combined Automated Reaction Pathway Searches and Sparse Modeling Analysis for Catalytic Properties of Lowest Energy Twins of Cu <sub>13</sub> . <i>Journal of Physical Chemistry A</i> , 2019, 123, 210-217.	2.5	18
22	Catalytic Activity of Gold Clusters Supported on the h-BN/Au(111) Surface for the Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1334-1344.	3.1	17
23	Excess charge driven dissociative hydrogen adsorption on Ti <sub>2</sub> O <sub>4</sub> <sup>+</sup> . <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23154-23161.	2.8	16
24	l-Cysteine-Modified Acacia Gum as a Multifunctional Binder for Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 47956-47962.	8.0	16
25	Unraveling the promotional effects of NiCo catalysts over defective boron nitride nanosheets in dry reforming of methane. <i>Catalysis Today</i> , 2022, 402, 283-291.	4.4	11
26	Adsorption mediated tandem acid catalyzed cellulose hydrolysis by ortho-substituted benzoic acids. <i>Molecular Catalysis</i> , 2019, 475, 110459.	2.0	6
27	The h-BN surface effect on CO oxidation reaction catalyzed by supported gold atom. <i>Journal of Physics: Conference Series</i> , 2013, 438, 012003.	0.4	4
28	A quantum chemical study of substituent effects on CN bonds in aryl isocyanide molecules adsorbed on the Pt surface. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12200-12208.	2.8	4
29	Effect of O <sub>2</sub> adsorption on the termination of Li-O <sub>2</sub> batteries discharge. <i>Electrochimica Acta</i> , 2020, 340, 135977.	5.2	4
30	Identifying Substrate-Dependent Chemical Bonding Nature at Molecule/Metal Interfaces Using Vibrational Sum Frequency Generation Spectroscopy and Theoretical Calculations. <i>Journal of Physical Chemistry C</i> , 2022, 126, 11298-11309.	3.1	3
31	Catalytic Functionalization of Hexagonal Boron Nitride for Oxidation and Epoxidation Reactions by Molecular Oxygen. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19219-19228.	3.1	2