Guanna Li

List of Publications by Year
in descending order

70 papers	5,063 citations	94433 37 h-index	102487 66 g-index
72 all docs	72 docs citations	72 times ranked	5260 citing authors

#	Article	IF	Citations
1	Highly dispersed Cd cluster supported on TiO2 as an efficient catalyst for CO2 hydrogenation to methanol. Chinese Journal of Catalysis, 2022, 43, 761-770.	14.0	24
2	Ground-state properties of the narrowest zigzag graphene nanoribbon from quantum Monte Carlo and comparison with density functional theory. Journal of Chemical Physics, 2022, 156, 084112.	3.0	4
3	Solvent-Assisted Ketone Reduction by a Homogeneous Mn Catalyst. Organometallics, 2022, 41, 1829-1835.	2.3	8
4	Antibiotic-Like Activity of Atomic Layer Boron Nitride for Combating Resistant Bacteria. ACS Nano, 2022, 16, 7674-7688.	14.6	25
5	Interfacial Modulation with Aluminum Oxide for Efficient Plasmonâ€Induced Water Oxidation. Advanced Functional Materials, 2021, 31, 2005688.	14.9	33
6	Mechanistic investigation of benzene esterification by K2CO3/TiO2: the catalytic role of the multifunctional interface. Chemical Communications, 2021, 57, 7890-7893.	4.1	2
7	Alizarin Grafting onto Ultrasmall ZnO Nanoparticles: Mode of Binding, Stability, and Colorant Studies. Langmuir, 2021, 37, 1446-1455.	3.5	8
8	Gold and Silver-Catalyzed Reductive Amination of Aromatic Carboxylic Acids to Benzylic Amines. ACS Catalysis, 2021, 11, 7672-7684.	11.2	18
9	Divalent Ion Selectivity in Capacitive Deionization with Vanadium Hexacyanoferrate: Experiments and Quantumâ€Chemical Computations. Advanced Functional Materials, 2021, 31, 2105203.	14.9	38
10	Phosphorus Induced Electron Localization of Single Iron Sites for Boosted CO₂ Electroreduction Reaction. Angewandte Chemie, 2021, 133, 23806-23810.	2.0	22
11	Phosphorus Induced Electron Localization of Single Iron Sites for Boosted CO₂ Electroreduction Reaction. Angewandte Chemie - International Edition, 2021, 60, 23614-23618.	13.8	197
12	Metal Containing Nanoclusters in Zeolites. , 2021, , .		1
13	Unraveling the Nature of Extraframework Catalytic Ensembles in Zeolites: Flexibility and Dynamics of the Copper-Oxo Trimers in Mordenite. Journal of Physical Chemistry Letters, 2021, 12, 10906-10913.	4.6	8
14	Enhanced surface area and reduced pore collapse of methylated, imine-linked covalent organic frameworks. Nanoscale, 2021, 13, 19446-19452.	5.6	10
15	Engineering the Protein Corona Structure on Gold Nanoclusters Enables Redâ€Shifted Emissions in the Second Nearâ€Infrared Window for Gastrointestinal Imaging. Angewandte Chemie - International Edition, 2020, 59, 22431-22435.	13.8	78
16	Engineering the Protein Corona Structure on Gold Nanoclusters Enables Redâ€Shifted Emissions in the Second Nearâ€Infrared Window for Gastrointestinal Imaging. Angewandte Chemie, 2020, 132, 22617-22621.	2.0	52
17	Understanding the Effect of Crystalline Structural Transformation for Leadâ€Free Inorganic Halide Perovskites. Advanced Materials, 2020, 32, e2002137.	21.0	101
18	Single-Atom Pt⁺ Derived from the Laser Dissociation of a Platinum Cluster: Insights into Nonoxidative Alkane Conversion. Journal of Physical Chemistry Letters, 2020, 11, 5987-5991.	4.6	8

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19	Intrinsic Facetâ€Dependent Reactivity of Wellâ€Defined BiOBr Nanosheets on Photocatalytic Water Splitting. Angewandte Chemie - International Edition, 2020, 59, 6590-6595.	13.8	231
20	Intrinsic Facetâ€Dependent Reactivity of Wellâ€Defined BiOBr Nanosheets on Photocatalytic Water Splitting. Angewandte Chemie, 2020, 132, 6652-6657.	2.0	46
21	Structure and Reactivity of the Mo/ZSM-5 Dehydroaromatization Catalyst: An Operando Computational Study. ACS Catalysis, 2019, 9, 8731-8737.	11.2	52
22	Activity Descriptors Derived from Comparison of Mo and Fe as Active Metal for Methane Conversion to Aromatics. Journal of the American Chemical Society, 2019, 141, 18814-18824.	13.7	52
23	Breaking Linear Scaling Relationships with Secondary Interactions in Confined Space: A Case Study of Methane Oxidation by Fe/ZSM-5 Zeolite. ACS Catalysis, 2019, 9, 9276-9284.	11.2	44
24	High-Performance M_aZrO_{<i>x</i>} (M_a = Cd, Ga) Solid-Solution Catalysts for CO₂ Hydrogenation to Methanol. ACS Catalysis, 2019, 9, 10253-10259.	11.2	137
25	Structure-activity relationships in metal organic framework derived mesoporous nitrogen-doped carbon containing atomically dispersed iron sites for CO2 electrochemical reduction. Journal of Catalysis, 2019, 378, 320-330.	6.2	36
26	A site-sensitive quasi-in situ strategy to characterize Mo/HZSM-5 during activation. Journal of Catalysis, 2019, 370, 321-331.	6.2	40
27	Formation of Active Cu-oxo Clusters for Methane Oxidation in Cu-Exchanged Mordenite. Journal of Physical Chemistry C, 2019, 123, 8759-8769.	3.1	60
28	Lateral Adsorbate Interactions Inhibit HCOO^{â^’} while Promoting CO Selectivity for CO₂ Electrocatalysis on Silver. Angewandte Chemie - International Edition, 2019, 58, 1345-1349.	13.8	93
29	The Nature and Catalytic Function of Cation Sites in Zeolites: a Computational Perspective. ChemCatChem, 2019, 11, 134-156.	3.7	96
30	Lateral Adsorbate Interactions Inhibit HCOO^{â^’} while Promoting CO Selectivity for CO₂ Electrocatalysis on Silver. Angewandte Chemie, 2019, 131, 1359-1363.	2.0	25
31	RÃ¼cktitelbild: Lateral Adsorbate Interactions Inhibit HCOO^{â^’} while Promoting CO Selectivity for CO₂ Electrocatalysis on Silver (Angew. Chem. 5/2019). Angewandte Chemie, 2019, 131, 1534-1534.	2.0	0
32	Lewis Acid Catalysis by Zeolites * *These authors contributed equally.. , 2018, , 229-263.		3
33	Relevance of the Mo-precursor state in H-ZSM-5 for methane dehydroaromatization. Catalysis Science and Technology, 2018, 8, 916-922.	4.1	47
34	A Density Functional Theory Study of the Mechanism of Direct Glucose Dehydration to 5â€Hydroxymethylfurfural on Anatase Titania. ChemCatChem, 2018, 10, 4084-4089.	3.7	27
35	Mechanistic Complexity of Methane Oxidation with H₂O₂ by Single-Site Fe/ZSM-5 Catalyst. ACS Catalysis, 2018, 8, 7961-7972.	11.2	98
36	Unraveling reaction networks behind the catalytic oxidation of methane with H₂O₂ over a mixed-metal MIL-53(Al,Fe) MOF catalyst. Chemical Science, 2018, 9, 6765-6773.	7.4	67

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37	Isolated Fe Sites in Metal Organic Frameworks Catalyze the Direct Conversion of Methane to Methanol. ACS Catalysis, 2018, 8, 5542-5548.	11.2	200
38	Propertyâ€“Activity Relations for Methane Activation by Dualâ€Metal Cuâ€“Oxo Trimers in ZSMâ€5 Zeolite. Small Methods, 2018, 2, 1800266.	8.6	21
39	Stable Mo/HZSM-5 methane dehydroaromatization catalysts optimized for high-temperature calcination-regeneration. Journal of Catalysis, 2017, 346, 125-133.	6.2	147
40	Controlled Growth of Monodisperse Ferrite Octahedral Nanocrystals for Biomass-Derived Catalytic Applications. ACS Catalysis, 2017, 7, 2948-2955.	11.2	40
41	A highly selective and stable ZnO-ZrO ₂ solid solution catalyst for CO ₂ hydrogenation to methanol. Science Advances, 2017, 3, e1701290.	10.3	683
42	Electronic Structure of the [Cu₃(Î¼-O)₃]²⁺ Cluster in Mordenite Zeolite and Its Effects on the Methane to Methanol Oxidation. Journal of Physical Chemistry C, 2017, 121, 22295-22302.	3.1	74
43	Stability and reactivity of copper oxo-clusters in ZSM-5 zeolite for selective methane oxidation to methanol. Journal of Catalysis, 2016, 338, 305-312.	6.2	217
44	A Periodic DFT Study of Glucose to Fructose Isomerization on Tungstite (WO₃Â·H₂O): Influence of Group IVâ€“VI Dopants and Cooperativity with Hydroxyl Groups. ACS Catalysis, 2016, 6, 4162-4169.	11.2	45
45	Dehydration of Glucose to 5â€Hydroxymethylfurfural Using Nbâ€doped Tungstite. ChemSusChem, 2016, 9, 2421-2429.	6.8	64
46	Relationship between acidity and catalytic reactivity of faujasite zeolite: A periodic DFT study. Journal of Catalysis, 2016, 344, 570-577.	6.2	72
47	Competitive Adsorption of Substrate and Solvent in Snâ€Beta Zeolite During Sugar Isomerization. ChemSusChem, 2016, 9, 3145-3149.	6.8	36
48	Nature and Catalytic Role of Extraframework Aluminum in Faujasite Zeolite: A Theoretical Perspective. ACS Catalysis, 2015, 5, 7024-7033.	11.2	92
49	Catalytic Hydrogenation of CO₂ to Formates by a Lutidine-Derived Ruâ€“CNC Pincer Complex: Theoretical Insight into the Unrealized Potential. ACS Catalysis, 2015, 5, 1145-1154.	11.2	109
50	Synthesis of Snâ€Beta with Exclusive and High Framework Sn Content. ChemCatChem, 2015, 7, 1152-1160.	3.7	105
51	Single-site trinuclear copper oxygen clusters in mordenite for selective conversion of methane to methanol. Nature Communications, 2015, 6, 7546.	12.8	623
52	Effect of the Nature and Location of Copper Species on the Catalytic Nitric Oxide Selective Catalytic Reduction Performance of the Copper/SSZâ€13 Zeolite. ChemCatChem, 2014, 6, 634-639.	3.7	30
53	Synergy between Lewis acid sites and hydroxyl groups for the isomerization of glucose to fructose over Sn-containing zeolites: a theoretical perspective. Catalysis Science and Technology, 2014, 4, 2241-2250.	4.1	117
54	Catalytic properties of extraframework iron-containing species in ZSM-5 for N2O decomposition. Journal of Catalysis, 2013, 308, 386-397.	6.2	43

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55	Identification of Fe2(Î¼-O) and Fe2(Î¼-O)2 sites in Fe/ZSM-35 by in situ resonance Raman spectroscopy. Journal of Catalysis, 2013, 301, 77-82.	6.2	21
56	Finding the â€œMissing Componentsâ€•during the Synthesis of TS-1 Zeolite by UV Resonance Raman Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 2844-2848.	3.1	56
57	Stability of Extraframework Iron-Containing Complexes in ZSM-5 Zeolite. Journal of Physical Chemistry C, 2013, 117, 413-426.	3.1	75
58	â€œExtractingâ€•the Key Fragment in ETSâ€10 Crystallization and Its Application in AMâ€6 Assembly. Chemistry - A European Journal, 2012, 18, 12078-12084.	3.3	8
59	A Thorough Investigation of the Active Titanium Species in TSâ€1 Zeolite by In Situ UV Resonance Raman Spectroscopy. Chemistry - A European Journal, 2012, 18, 13854-13860.	3.3	137
60	Hydrogen bonding in homochiral dimers of hydroxyesters studied by Raman optical activity spectroscopy. Journal of Raman Spectroscopy, 2012, 43, 503-513.	2.5	9
61	Chiral Sulfur Compounds Studied by Raman Optical Activity: <i>tert</i>â€Butanesulfinamide and its Precursor <i>tert</i>â€Butyl <i>tert</i>â€Butanethiosulfinate. Chirality, 2012, 24, 731-740.	2.6	1
62	Zinc and cadmium coordination polymers assembled with 2,2â€²-bipyridine and bithiophenedicarboxylic acid: Effect of metal ions on the conformation of ligand. Inorganica Chimica Acta, 2012, 383, 185-189.	2.4	18
63	Effect of Substituted Groups on the Electronic Circular Dichroism of Aldols: A Combined Experimental and Time-Dependent DFT Study. Journal of Physical Chemistry C, 2011, 115, 972-981.	3.1	5
64	pH-Dependent Chirality of <scp>l</scp>-Proline Studied by Raman Optical Activity and Density Functional Theory Calculation. Journal of Physical Chemistry A, 2011, 115, 1340-1349.	2.5	11
65	Stability and reactivity of active sites for direct benzene oxidation to phenol in Fe/ZSM-5: A comprehensive periodic DFT study. Journal of Catalysis, 2011, 284, 194-206.	6.2	69
66	Chirality transition in the epoxidation of (âˆ’)-Î±-pinene and successive hydrolysis studied by Raman optical activity and DFT. Physical Chemistry Chemical Physics, 2010, 12, 3005.	2.8	14
67	Alkali-hydrolysis of D-glucono-delta-lactone studied by chiral Raman and circular dichroism spectroscopies. Science in China Series B: Chemistry, 2009, 52, 552-558.	0.8	6
68	Shape-Controlled Copper Selenide Nanocubes Synthesized by an Electrochemical Crystallization Method. Journal of Physical Chemistry C, 2009, 113, 10833-10837.	3.1	48
69	In Situ UV Raman Spectroscopic Studies on the Synthesis Mechanism of Zeolite X. Chemistry - A European Journal, 2008, 14, 5125-5129.	3.3	75
70	CO 2 Hydrogenation to Methanol over Cd 4 /TiO 2 Catalyst: Insight into Multifunctional Interface. ChemCatChem, 0, , .	3.7	1