

Bing Yang

List of Publications by Year in descending order

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3791
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal-Phase-Mediated Restructuring of Pt on TiO ₂ with Tunable Reactivity: Redispersions versus Reshaping. ACS Catalysis, 2022, 12, 3634-3643.	11.2	44
2	Ni ²⁺ -Directed Anisotropic Growth of PtCu Nested Skeleton Cubes Boosting Electroreduction of Oxygen. Advanced Science, 2022, 9, e2104927.	11.2	14
3	In-situ generation and global property profiling of metal nanoclusters by ultraviolet laser dissociation-mass spectrometry. Science China Chemistry, 2022, 65, 1196-1203.	8.2	11
4	Noble Metal-Free 2D 1T-MoS ₂ Edge Sites Boosting Selective Hydrogenation of Maleic Anhydride. ACS Catalysis, 2022, 12, 8986-8994.	11.2	18
5	CO _x -Resistant Oxidative Dehydrogenation of Cyclohexane Catalyzed by sp ³ @sp ² Nanodiamonds towards Highly Selective Cyclohexene Production. ChemCatChem, 2021, 13, 610-616.	3.7	5
6	Structural phase evolved Ni ²⁺ -doped fluoride nanocrystals in KF ⁺ ZnF ₂ ⁻ /SiO ₂ glass-ceramics. Journal of the American Ceramic Society, 2021, 104, 824-832.	3.8	4
7	Tunable strain drives the activity enhancement for oxygen reduction reaction on Pd@Pt core-shell electrocatalysts. Journal of Power Sources, 2021, 485, 229340.	7.8	21
8	On-surface formation of metal-organic coordination networks with C ⁻ Ag ⁺ C and C=O ⁻ Ag interactions assisted by precursor self-assembly. Journal of Chemical Physics, 2021, 154, 044703.	3.0	9
9	In situ identification of the metallic state of Ag nanoclusters in oxidative dispersion. Nature Communications, 2021, 12, 1406.	12.8	42
10	Edge-Confined Pt ₁ /MoS ₂ Single-Atom Catalyst Promoting the Selective Activation of Carbon-Oxygen Bond. ChemCatChem, 2021, 13, 2783-2793.	3.7	18
11	Oxidative Strong Metal-Support Interactions between Metals and Inert Boron Nitride. Journal of Physical Chemistry Letters, 2021, 12, 4187-4194.	4.6	35
12	Direct oxidation of methane to oxygenates on supported single Cu atom catalyst. Applied Catalysis B: Environmental, 2021, 285, 119827.	20.2	72
13	CO ₂ Methanation on Cu-Cluster Decorated Zirconia Supports with Different Morphology: A Combined Experimental In Situ GIXANES/GISAXS, Ex Situ XPS and Theoretical DFT Study. ACS Catalysis, 2021, 11, 6210-6224.	11.2	28
14	Integration of Bimetallic Electronic Synergy with Oxide Site Isolation Improves the Selective Hydrogenation of Acetylene. Angewandte Chemie - International Edition, 2021, 60, 19324-19330.	13.8	50
15	Integration of Bimetallic Electronic Synergy with Oxide Site Isolation Improves the Selective Hydrogenation of Acetylene. Angewandte Chemie, 2021, 133, 19473-19479.	2.0	3
16	CeO ₂ supported Pd dimers boosting CO ₂ hydrogenation to ethanol. Applied Catalysis B: Environmental, 2021, 291, 120122.	20.2	88
17	Support-Induced unusual size dependence of Pd catalysts in chemoselective hydrogenation of para-chloronitrobenzene. Journal of Catalysis, 2021, 400, 173-183.	6.2	32
18	Zeolite-Tailored Active Site Proximity for the Efficient Production of Pentanoic Biofuels. Angewandte Chemie - International Edition, 2021, 60, 23713-23721.	13.8	43

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19	Zeolite-Tailored Active Site Proximity for the Efficient Production of Pentanoic Biofuels. <i>Angewandte Chemie</i> , 2021, 133, 23906-23914.	2.0	10
20	Near 100% ethene selectivity achieved by tailoring dual active sites to isolate dehydrogenation and oxidation. <i>Nature Communications</i> , 2021, 12, 5447.	12.8	30
21	Achieving stable Na metal cycling via polydopamine/multilayer graphene coating of a polypropylene separator. <i>Nature Communications</i> , 2021, 12, 5786.	12.8	69
22	Optimized oxygen reduction activity by tuning shell component in Pd@Pt-based core-shell electrocatalysts. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 301-309.	9.4	4
23	Identifying key mononuclear Fe species for low-temperature methane oxidation. <i>Chemical Science</i> , 2021, 12, 3152-3160.	7.4	49
24	Scalable Production of Freestanding Few-Layer h^2 -Borophene Single Crystalline Sheets as Efficient Electrocatalysts for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2021, 15, 17327-17336.	14.6	40
25	Oxidative Dehydrogenation of Cyclohexane by Cu vs Pd Clusters: Selectivity Control by Specific Cluster Dynamics. <i>ChemCatChem</i> , 2020, 12, 1307-1315.	3.7	21
26	Direct observation of the geometric isomer selectivity of a reaction controlled via adsorbed bromine. <i>Nanoscale</i> , 2020, 12, 2726-2731.	5.6	11
27	Dialing in Catalytic Sites on Metal Organic Framework Nodes: MIL-53(Al) and MIL-68(Al) Probed with Methanol Dehydration Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53537-53546.	8.0	34
28	Reaction-Induced Strong Metal-Support Interactions between Metals and Inert Boron Nitride Nanosheets. <i>Journal of the American Chemical Society</i> , 2020, 142, 17167-17174.	13.7	164
29	Amphiphilic Oxo-Bridged Ruthenium Green Dimer for Water Oxidation. <i>IScience</i> , 2020, 23, 100969.	4.1	15
30	Reversible loss of core-shell structure for Ni-Au bimetallic nanoparticles during CO ₂ hydrogenation. <i>Nature Catalysis</i> , 2020, 3, 411-417.	34.4	186
31	Structural reversibility of Cu doped NU-1000 MOFs under hydrogenation conditions. <i>Journal of Chemical Physics</i> , 2020, 152, 084703.	3.0	16
32	Lotus-Leaf-Inspired Flexible and Tunable Random Laser. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10050-10057.	8.0	25
33	Dynamic Interplay between Copper Tetramers and Iron Oxide Boosting CO ₂ Conversion to Methanol and Hydrocarbons under Mild Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14435-14442.	6.7	19
34	Mapping XANES spectra on structural descriptors of copper oxide clusters using supervised machine learning. <i>Journal of Chemical Physics</i> , 2019, 151, 164201.	3.0	60
35	Nanoassemblies of ultrasmall clusters with remarkable activity in carbon dioxide conversion into C1 fuels. <i>Nanoscale</i> , 2019, 11, 4683-4687.	5.6	8
36	Using first principles calculations to interpret XANES experiments: extracting the size-dependence of the (P-T) phase diagram of sub-nanometer Cu clusters in an O ₂ environment. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 144002.	1.8	6

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37	Construction of Cyclobutanes by Multicomponent Cascade Reactions in Homogeneous Solution through Visible-Light Catalysis. <i>Chemistry - A European Journal</i> , 2019, 25, 879-884.	3.3	13
38	Reversing Size-Dependent Trends in the Oxidation of Copper Clusters through Support Effects. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 16-22.	2.0	20
39	Cover Feature: Reversing Size-Dependent Trends in the Oxidation of Copper Clusters through Support Effects (<i>Eur. J. Inorg. Chem.</i> 1/2018). <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 3-3.	2.0	0
40	A Bio-Inspired Cu ₄ O ₄ Cubane: Effective Molecular Catalysts for Electrocatalytic Water Oxidation in Aqueous Solution. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7850-7854.	13.8	91
41	Highly efficient Cu-decorated iron oxide nanocatalyst for low pressure CO ₂ conversion. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 128-138.	20.2	24
42	Subnanometer Substructures in Nanoassemblies Formed from Clusters under a Reactive Atmosphere Revealed Using Machine Learning. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21686-21693.	3.1	69
43	A Bio-Inspired Cu ₄ O ₄ Cubane: Effective Molecular Catalysts for Electrocatalytic Water Oxidation in Aqueous Solution. <i>Angewandte Chemie</i> , 2018, 130, 7976-7980.	2.0	19
44	Copper Cluster Size Effect in Methanol Synthesis from CO ₂ . <i>Journal of Physical Chemistry C</i> , 2017, 121, 10406-10412.	3.1	144
45	General and Efficient Intermolecular [2+2] Photodimerization of Chalcones and Cinnamic Acid Derivatives in Solution through Visible-Light Catalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15407-15410.	13.8	128
46	General and Efficient Intermolecular [2+2] Photodimerization of Chalcones and Cinnamic Acid Derivatives in Solution through Visible-Light Catalysis. <i>Angewandte Chemie</i> , 2017, 129, 15609-15612.	2.0	30
47	Tracking the Fe ^{IV} (O) intermediate and O-O bond formation of a nonheme iron catalyst for water oxidation. <i>Chemical Communications</i> , 2017, 53, 9063-9066.	4.1	19
48	Self-Assembled Amphiphilic Water Oxidation Catalysts: Control of O-O Bond Formation Pathways by Different Aggregation Patterns. <i>Angewandte Chemie</i> , 2016, 128, 6337-6342.	2.0	10
49	Self-Assembled Amphiphilic Water Oxidation Catalysts: Control of O-O Bond Formation Pathways by Different Aggregation Patterns. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6229-6234.	13.8	29
50	Visible Light Initiated Hantzsch Synthesis of 2,5-Diaryl-Substituted Pyrroles at Ambient Conditions. <i>Organic Letters</i> , 2016, 18, 2479-2482.	4.6	68
51	Electrochemical behaviour of naked sub-nanometre sized copper clusters and effect of CO ₂ . <i>Catalysis Science and Technology</i> , 2016, 6, 6977-6985.	4.1	31
52	Effects of red mud on rheological, crystalline, and mechanical properties of red mud/PBAT composites. <i>Polymer Composites</i> , 2016, 37, 2001-2007.	4.6	16
53	Electron stimulated hydroxylation of a metal supported silicate film. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3755-3764.	2.8	33
54	Carbon Dioxide Conversion to Methanol over Size-Selected Cu ₄ Clusters at Low Pressures. <i>Journal of the American Chemical Society</i> , 2015, 137, 8676-8679.	13.7	299

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55	Surface interaction induced transcrystallization in biodegradable poly(butylene succinate)-fibre composites. <i>Colloid and Polymer Science</i> , 2015, 293, 2701-2707.	2.1	6
56	Ultrathin silicatene/silicon-carbide hybrid film on a metal substrate. <i>Surface Science</i> , 2015, 632, 9-13.	1.9	14
57	Ultrathin Silica Films: The Atomic Structure of Two-Dimensional Crystals and Glasses. <i>Chemistry - A European Journal</i> , 2014, 20, 9176-9183.	3.3	51
58	Tuning Spatial Distribution of Surface Hydroxyls on a Metal-Supported Single-Layer Silica. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1701-1704.	4.6	11
59	Methanol Reactivity on Silica-Supported Ceria Nanoparticles. <i>Topics in Catalysis</i> , 2014, 57, 1229-1235.	2.8	7
60	Permeation of a Single-Layer SiO ₂ Membrane and Chemistry in Confined Space. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29034-29042.	3.1	56
61	Patterned Defect Structures Predicted for Graphene Are Observed on Single-Layer Silica Films. <i>Nano Letters</i> , 2013, 13, 4422-4427.	9.1	42
62	Interaction of Probe Molecules with Bridging Hydroxyls of Two-Dimensional Zeolites: A Surface Science Approach. <i>Journal of Physical Chemistry C</i> , 2013, 117, 13547-13556.	3.1	67
63	Building blocks of zeolites on an aluminosilicate ultra-thin film. <i>Microporous and Mesoporous Materials</i> , 2013, 165, 158-162.	4.4	42
64	Atomic Structure of an Ultrathin Fe-Silicate Film Grown on a Metal: A Monolayer of Clay?. <i>Journal of the American Chemical Society</i> , 2013, 135, 19222-19228.	13.7	35
65	Thin silica films on Ru(0001): monolayer, bilayer and three-dimensional networks of [SiO ₄] tetrahedra. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11344.	2.8	106
66	Effect of lattice-gas atoms on the adsorption behaviour of thioether molecules. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10987.	2.8	8
67	Tuning Structural and Mechanical Properties of Two-Dimensional Molecular Crystals: The Roles of Carbon Side Chains. <i>Nano Letters</i> , 2012, 12, 1229-1234.	9.1	27
68	Stabilizing Gold Adatoms by Thiophenyl Derivatives: A Possible Route toward Metal Redispersion. <i>Journal of the American Chemical Society</i> , 2012, 134, 11161-11167.	13.7	16
69	Support effects on the atomic structure of ultrathin silica films on metals. <i>Applied Physics Letters</i> , 2012, 100, 151608.	3.3	80
70	Modeling Zeolites with Metal-Supported Two-Dimensional Aluminosilicate Films. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6005-6008.	13.8	96
71	The Atomic Structure of a Metal-Supported Vitreous Thin Silica Film. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 404-407.	13.8	207
72	Role of the V ₂ O ₃ (0001) Defect Structure in the Adsorption of Au Adatoms. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3404-3409.	3.1	2

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73	Direct Observation of Enantiospecific Substitution in a Two-Dimensional Chiral Phase Transition. Journal of the American Chemical Society, 2010, 132, 10440-10444.	13.7	40
74	Charge-Mediated Adsorption Behavior of CO on MgO-Supported Au Clusters. Journal of the American Chemical Society, 2010, 132, 7745-7749.	13.7	112
75	CO Adsorption on Thin MgO Films and Single Au Adatoms: A Scanning Tunneling Microscopy Study. Journal of Physical Chemistry C, 2010, 114, 8997-9001.	3.1	22
76	Homochiral Recognition among Organic Molecules on Copper(110). Langmuir, 2010, 26, 3402-3406.	3.5	21
77	Alternating the Crystalline Structural Transition of Coronene Molecular Overlayers on Ag(110) through Temperature Increase. Journal of Physical Chemistry C, 2009, 113, 17643-17647.	3.1	9
78	Influence of Deoxyribose Group on Self-Assembly of Thymidine on Au(111). Journal of Physical Chemistry C, 2009, 113, 17590-17594.	3.1	10