

# Bing Yang

## List of Publications by Year in descending order

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78  
papers

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citations

147801

31  
h-index

149698

56  
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87  
all docs

87  
docs citations

87  
times ranked

3791  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon Dioxide Conversion to Methanol over Size-Selected Cu <sub>4</sub> Clusters at Low Pressures. <i>Journal of the American Chemical Society</i> , 2015, 137, 8676-8679.	13.7	299
2	The Atomic Structure of a Metal-Supported Vitreous Thin Silica Film. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 404-407.	13.8	207
3	Reversible loss of core-shell structure for Ni-Au bimetallic nanoparticles during CO <sub>2</sub> hydrogenation. <i>Nature Catalysis</i> , 2020, 3, 411-417.	34.4	186
4	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
5	Copper Cluster Size Effect in Methanol Synthesis from CO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2017, 121, 10406-10412.	3.1	144
6	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
7	Charge-Mediated Adsorption Behavior of CO on MgO-Supported Au Clusters. <i>Journal of the American Chemical Society</i> , 2010, 132, 7745-7749.	13.7	112
8	Thin silica films on Ru(0001): monolayer, bilayer and three-dimensional networks of [SiO <sub>4</sub> ] tetrahedra. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11344.	2.8	106
9	Modeling Zeolites with Metal-Supported Two-Dimensional Aluminosilicate Films. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6005-6008.	13.8	96
10	A Bio-Inspired Cu <sub>4</sub> O <sub>4</sub> Cubane: Effective Molecular Catalysts for Electrocatalytic Water Oxidation in Aqueous Solution. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7850-7854.	13.8	91
11	CeO <sub>2</sub> supported Pd dimers boosting CO <sub>2</sub> hydrogenation to ethanol. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120122.	20.2	88
12	Support effects on the atomic structure of ultrathin silica films on metals. <i>Applied Physics Letters</i> , 2012, 100, 151608.	3.3	80
13	Direct oxidation of methane to oxygenates on supported single Cu atom catalyst. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119827.	20.2	72
14	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
15	Achieving stable Na metal cycling via polydopamine/multilayer graphene coating of a polypropylene separator. <i>Nature Communications</i> , 2021, 12, 5786.	12.8	69
16	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
17	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
18	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

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19	Permeation of a Single-Layer SiO <sub>2</sub> Membrane and Chemistry in Confined Space. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29034-29042.	3.1	56
20	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
21	Integration of Bimetallic Electronic Synergy with Oxide Site Isolation Improves the Selective Hydrogenation of Acetylene. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19324-19330.	13.8	50
22	Identifying key mononuclear Fe species for low-temperature methane oxidation. <i>Chemical Science</i> , 2021, 12, 3152-3160.	7.4	49
23	Crystal-Phase-Mediated Restructuring of Pt on TiO <sub>2</sub> with Tunable Reactivity: Redispersion versus Reshaping. <i>ACS Catalysis</i> , 2022, 12, 3634-3643.	11.2	44
24	Zeolite-Tailored Active Site Proximity for the Efficient Production of Pentanoic Biofuels. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23713-23721.	13.8	43
25	Patterned Defect Structures Predicted for Graphene Are Observed on Single-Layer Silica Films. <i>Nano Letters</i> , 2013, 13, 4422-4427.	9.1	42
26	Building blocks of zeolites on an aluminosilicate ultra-thin film. <i>Microporous and Mesoporous Materials</i> , 2013, 165, 158-162.	4.4	42
27	In situ identification of the metallic state of Ag nanoclusters in oxidative dispersion. <i>Nature Communications</i> , 2021, 12, 1406.	12.8	42
28	Direct Observation of Enantiospecific Substitution in a Two-Dimensional Chiral Phase Transition. <i>Journal of the American Chemical Society</i> , 2010, 132, 10440-10444.	13.7	40
29	Scalable Production of Freestanding Few-Layer h <sub>2</sub> -Borophene Single Crystalline Sheets as Efficient Electrocatalysts for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2021, 15, 17327-17336.	14.6	40
30	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
31	Oxidative Strong Metal-Support Interactions between Metals and Inert Boron Nitride. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4187-4194.	4.6	35
32	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 &amp; Interfaces</i> , 2020, 12, 53537-53546.	8.0	34
33	Electron stimulated hydroxylation of a metal supported silicate film. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3755-3764.	2.8	33
34	Support-Induced unusual size dependence of Pd catalysts in chemoselective hydrogenation of para-chloronitrobenzene. <i>Journal of Catalysis</i> , 2021, 400, 173-183.	6.2	32
35	Electrochemical behaviour of naked sub-nanometre sized copper clusters and effect of CO <sub>2</sub> . <i>Catalysis Science and Technology</i> , 2016, 6, 6977-6985.	4.1	31
36	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

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37	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
38	Self-Assembled Amphiphilic Water Oxidation Catalysts: Control of O <sup>•</sup> O Bond Formation Pathways by Different Aggregation Patterns. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6229-6234.	13.8	29
39	CO <sub>2</sub> Methanation on Cu-Cluster Decorated Zirconia Supports with Different Morphology: A Combined Experimental In Situ GIXANES/GISAXS, Ex Situ XPS and Theoretical DFT Study. <i>ACS Catalysis</i> , 2021, 11, 6210-6224.	11.2	28
40	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
41	Lotus-Leaf-Inspired Flexible and Tunable Random Laser. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 10050-10057.	8.0	25
42	Highly efficient Cu-decorated iron oxide nanocatalyst for low pressure CO <sub>2</sub> conversion. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 128-138.	20.2	24
43	CO Adsorption on Thin MgO Films and Single Au Adatoms: A Scanning Tunneling Microscopy Study. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8997-9001.	3.1	22
44	Homochiral Recognition among Organic Molecules on Copper(110). <i>Langmuir</i> , 2010, 26, 3402-3406.	3.5	21
45	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
46	Tunable strain drives the activity enhancement for oxygen reduction reaction on Pd@Pt core-shell electrocatalysts. <i>Journal of Power Sources</i> , 2021, 485, 229340.	7.8	21
47	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
48	Tracking the Fe <sup>IV</sup> (O) intermediate and O <sup>•</sup> O bond formation of a nonheme iron catalyst for water oxidation. <i>Chemical Communications</i> , 2017, 53, 9063-9066.	4.1	19
49	A Bio-Inspired Cu <sub>4</sub> O <sub>4</sub> Cubane: Effective Molecular Catalysts for Electrocatalytic Water Oxidation in Aqueous Solution. <i>Angewandte Chemie</i> , 2018, 130, 7976-7980.	2.0	19
50	Dynamic Interplay between Copper Tetramers and Iron Oxide Boosting CO <sub>2</sub> Conversion to Methanol and Hydrocarbons under Mild Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14435-14442.	6.7	19
51	Edge-Confined Pt <sub>1</sub> /MoS <sub>2</sub> Single-Atom Catalyst Promoting the Selective Activation of Carbon-Oxygen Bond. <i>ChemCatChem</i> , 2021, 13, 2783-2793.	3.7	18
52	Noble Metal-Free 2D 1T-MoS <sub>2</sub> Edge Sites Boosting Selective Hydrogenation of Maleic Anhydride. <i>ACS Catalysis</i> , 2022, 12, 8986-8994.	11.2	18
53	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
54	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

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55	Structural reversibility of Cu doped NU-1000 MOFs under hydrogenation conditions. <i>Journal of Chemical Physics</i> , 2020, 152, 084703.	3.0	16
56	Amphiphilic Oxo-Bridged Ruthenium "Green Dimer" for Water Oxidation. <i>IScience</i> , 2020, 23, 100969.	4.1	15
57	Ultrathin silicatene/silicon-carbide hybrid film on a metal substrate. <i>Surface Science</i> , 2015, 632, 9-13.	1.9	14
58	Ni <sup>2+</sup> -Directed Anisotropic Growth of PtCu Nested Skeleton Cubes Boosting Electroreduction of Oxygen. <i>Advanced Science</i> , 2022, 9, e2104927.	11.2	14
59	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
60	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
61	Direct observation of the geometric isomer selectivity of a reaction controlled via adsorbed bromine. <i>Nanoscale</i> , 2020, 12, 2726-2731.	5.6	11
62	In-situ generation and global property profiling of metal nanoclusters by ultraviolet laser dissociation-mass spectrometry. <i>Science China Chemistry</i> , 2022, 65, 1196-1203.	8.2	11
63	Influence of Deoxyribose Group on Self-Assembly of Thymidine on Au(111). <i>Journal of Physical Chemistry C</i> , 2009, 113, 17590-17594.	3.1	10
64	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
65	Zeolite-Tailored Active Site Proximity for the Efficient Production of Pentanoic Biofuels. <i>Angewandte Chemie</i> , 2021, 133, 23906-23914.	2.0	10
66	Alternating the Crystalline Structural Transition of Coronene Molecular Overlayers on Ag(110) through Temperature Increase. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17643-17647.	3.1	9
67	On-surface formation of metal-organic coordination networks with C-Ag-C and C=O-Ag interactions assisted by precursor self-assembly. <i>Journal of Chemical Physics</i> , 2021, 154, 044703.	3.0	9
68	Effect of lattice-gas atoms on the adsorption behaviour of thioether molecules. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10987.	2.8	8
69	Nanoassemblies of ultrasmall clusters with remarkable activity in carbon dioxide conversion into C1 fuels. <i>Nanoscale</i> , 2019, 11, 4683-4687.	5.6	8
70	Methanol Reactivity on Silica-Supported Ceria Nanoparticles. <i>Topics in Catalysis</i> , 2014, 57, 1229-1235.	2.8	7
71	Surface interaction induced transcrystallization in biodegradable poly(butylene succinate)-fibre composites. <i>Colloid and Polymer Science</i> , 2015, 293, 2701-2707.	2.1	6
72	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 <sub>2</sub> environment. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 144002.	1.8	6

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73	CO <sub>x</sub> Resistant Oxidative Dehydrogenation of Cyclohexane Catalyzed by sp <sup>3</sup> @sp <sup>2</sup> Nanodiamonds towards Highly Selective Cyclohexene Production. ChemCatChem, 2021, 13, 610-616.	3.7	5
74	Structural phase evolved Ni <sup>2+</sup> doped fluoride nanocrystals in KF <sup>+</sup> ZnF <sub>2</sub> SiO <sub>2</sub> glass ceramics. Journal of the American Ceramic Society, 2021, 104, 824-832.	3.8	4
75	Optimized oxygen reduction activity by tuning shell component in Pd@Pt-based core-shell electrocatalysts. Journal of Colloid and Interface Science, 2021, 604, 301-309.	9.4	4
76	Integration of Bimetallic Electronic Synergy with Oxide Site Isolation Improves the Selective Hydrogenation of Acetylene. Angewandte Chemie, 2021, 133, 19473-19479.	2.0	3
77	Role of the V <sub>2</sub> O <sub>3</sub> (0001) Defect Structure in the Adsorption of Au Adatoms. Journal of Physical Chemistry C, 2011, 115, 3404-3409.	3.1	2
78	Cover Feature: Reversing Size-Dependent Trends in the Oxidation of Copper Clusters through Support Effects (Eur. J. Inorg. Chem. 1/2018). European Journal of Inorganic Chemistry, 2018, 2018, 3-3.	2.0	0