

# Li-Ming Yang

## List of Publications by Year in descending order

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59  
papers

3,611  
citations

147566

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133063

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all docs

60  
docs citations

60  
times ranked

3305  
citing authors

#	ARTICLE	IF	CITATIONS
1	Covalent Triazine Frameworks via a Low-Temperature Polycondensation Approach. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14149-14153.	7.2	441
2	Two-Dimensional Cu <sub>2</sub> Si Monolayer with Planar Hexacoordinate Copper and Silicon Bonding. <i>Journal of the American Chemical Society</i> , 2015, 137, 2757-2762.	6.6	335
3	Four Decades of the Chemistry of Planar Hypercoordinate Compounds. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9468-9501.	7.2	217
4	Bi-Based Metal-Organic Framework Derived Leafy Bismuth Nanosheets for Carbon Dioxide Electroreduction. <i>Advanced Energy Materials</i> , 2020, 10, 2001709.	10.2	210
5	Single Atomic Cerium Sites with a High Coordination Number for Efficient Oxygen Reduction in Proton-Exchange Membrane Fuel Cells. <i>ACS Catalysis</i> , 2021, 11, 3923-3929.	5.5	156
6	Two-Dimensional Anti-Van't Hoff/Le Bel Array AlB <sub>6</sub> with High Stability, Unique Motif, Triple Dirac Cones, and Superconductivity. <i>Journal of the American Chemical Society</i> , 2019, 141, 3630-3640.	6.6	154
7	Exceptional CO <sub>2</sub> working capacity in a heterodiamine-grafted metal-organic framework. <i>Chemical Science</i> , 2015, 6, 3697-3705.	3.7	127
8	Efficient and Selective Electroreduction of CO <sub>2</sub> by Single-Atom Catalyst Two-Dimensional TM-Pc Monolayers. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15494-15502.	3.2	124
9	Compressive Strain Modulation of Single Iron Sites on Helical Carbon Support Boosts Electrocatalytic Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22722-22728.	7.2	113
10	Electrocatalytic reduction of CO <sub>2</sub> by two-dimensional transition metal porphyrin sheets. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11944-11952.	5.2	110
11	Electrochemical reduction of CO <sub>2</sub> by single atom catalyst TM-TCNQ monolayers. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3805-3814.	5.2	103
12	Revealing unusual chemical bonding in planar hyper-coordinate Ni <sub>2</sub> Ge and quasi-planar Ni <sub>2</sub> Si two-dimensional crystals. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26043-26048.	1.3	95
13	Covalent Triazine Frameworks via a Low-Temperature Polycondensation Approach. <i>Angewandte Chemie</i> , 2017, 129, 14337-14341.	1.6	83
14	Ammonia Synthesis Using Single-Atom Catalysts Based on Two-Dimensional Organometallic Metal Phthalocyanine Monolayers under Ambient Conditions. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 608-621.	4.0	82
15	Post-anti-van't Hoff-Le Bel motif in atomically thin germanium-copper alloy film. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17545-17551.	1.3	81
16	The initial stages of melting of graphene between 4000 K and 6000 K. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 3756-3762.	1.3	72
17	Electrocatalytic Reduction of N <sub>2</sub> Using Metal-Doped Borophene. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 14091-14101.	4.0	70
18	Glitter in a 2D monolayer. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26036-26042.	1.3	68

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19	Two-Dimensional Single-Atom Catalyst TM <sub>3</sub> (HAB) <sub>2</sub> Monolayers for Electrocatalytic Dinitrogen Reduction Using Hierarchical High-Throughput Screening. ACS Applied Materials & Interfaces, 2021, 13, 26109-26122.	4.0	56
20	Coexistence of Three Ferroic Orders in the Multiferroic Compound [(CH <sub>3</sub> ) <sub>4</sub> N][Mn(N <sub>3</sub> ) <sub>3</sub> ] with Perovskite-Like Structure. Chemistry - A European Journal, 2016, 22, 7863-7870.	1.7	54
21	The new dimension of silver. Physical Chemistry Chemical Physics, 2015, 17, 19695-19699.	1.3	52
22	Efficient electrocatalytic reduction of carbon dioxide by metal-doped $\text{I}^{2-}_{12}$ -borophene monolayers. RSC Advances, 2019, 9, 27710-27719.	1.7	49
23	Single-atom catalysts based on two-dimensional metalloporphyrin monolayers for ammonia synthesis under ambient conditions. Nano Research, 2022, 15, 4039-4047.	5.8	46
24	Efficient modulation of the catalytic performance of electrocatalytic nitrogen reduction with transition metals anchored on N/O-codoped graphene by coordination engineering. Journal of Materials Chemistry A, 2022, 10, 1481-1496.	5.2	43
25	Mn-graphene single-atom catalyst evaluated for CO oxidation by computational screening. Theoretical Chemistry Accounts, 2018, 137, 1.	0.5	42
26	Electrocatalytic Mechanism of N <sub>2</sub> Reduction Reaction by Single-Atom Catalyst Rectangular TM-TCNQ Monolayers. ACS Applied Materials & Interfaces, 2021, 13, 29641-29653.	4.0	42
27	Structural revolution of atomically dispersed Mn sites dictates oxygen reduction performance. Nano Research, 2021, 14, 4512-4519.	5.8	40
28	Adding a new dimension to the chemistry of phosphorus and arsenic. Physical Chemistry Chemical Physics, 2016, 18, 17586-17591.	1.3	39
29	Unveiling the underlying mechanism of nitrogen fixation by a new class of electrocatalysts two-dimensional TM@g-C <sub>4</sub> N <sub>3</sub> monosheets. Applied Surface Science, 2022, 576, 151839.	3.1	37
30	Adsorption Properties and Microscopic Mechanism of CO <sub>2</sub> Capture in 1,1-Dimethyl-1,2-ethylenediamine-Grafted Metal-Organic Frameworks. ACS Applied Materials & Interfaces, 2020, 12, 18533-18540.	4.0	36
31	Halogenated MOF-5 variants show new configuration, tunable band gaps and enhanced optical response in the visible and near infrared. Physical Chemistry Chemical Physics, 2016, 18, 32319-32330.	1.3	35
32	Two-Dimensional Organometallic TM <sub>3</sub> -C <sub>12</sub> S <sub>12</sub> Monolayers for Electrocatalytic Reduction of CO <sub>2</sub> . Energy and Environmental Materials, 2019, 2, 193-200.	7.3	34
33	Tuning electronic and optical properties of a new class of covalent organic frameworks. Journal of Materials Chemistry C, 2014, 2, 2404.	2.7	32
34	Dual transition metal atoms embedded in N-doped graphene for electrochemical nitrogen fixation under ambient conditions. Journal of Materials Chemistry A, 2022, 10, 13527-13543.	5.2	30
35	Unveiling the Underlying Mechanism of Transition Metal Atoms Anchored Square Tetracyanoquinodimethane Monolayers as Electrocatalysts for N <sub>2</sub> Fixation. Energy and Environmental Materials, 2022, 5, 533-542.	7.3	25
36	Unveiling the Molecular Mechanism of CO <sub>2</sub> Capture in <i>i</i> -N-Methylethylenediamine-Grafted M <sub>2</sub> (dobpdc). ACS Sustainable Chemistry and Engineering, 2020, 8, 14616-14626.	3.2	24

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37	Computational Study of Quasi-2D Liquid State in Free Standing Platinum, Silver, Gold, and Copper Monolayers. <i>Condensed Matter</i> , 2016, 1, 1.	0.8	21
38	Tailoring Unsymmetrical $\epsilon$ -Coordinated Atomic Site in Oxide $\epsilon$ -Supported Pt Catalysts for Enhanced Surface Activity and Stability. <i>Small</i> , 2021, 17, e2101008.	5.2	20
39	First-Principles Investigations of Single Metal Atoms (Sc, Ti, V, Cr, Mn, and Ni) Embedded in Hexagonal Boron Nitride Nanosheets for the Catalysis of CO Oxidation. <i>Condensed Matter</i> , 2019, 4, 65.	0.8	19
40	Narrow bandgap covalent $\epsilon$ organic frameworks with strong optical response in the visible and infrared. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2244-2254.	2.7	18
41	Computational Prediction of the Low $\epsilon$ Temperature Ferromagnetic Semiconducting 2D SiN Monolayer. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900619.	0.7	15
42	Properties of the Free-Standing Two-Dimensional Copper Monolayer. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-6.	1.5	13
43	Disclosing the microscopic mechanism and adsorption properties of CO <sub>2</sub> capture in <i>N</i> -isopropylethylenediamine appended M <sub>2</sub> (dobpdc) series. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 24614-24623.	1.3	13
44	Elucidation of the Underlying Mechanism of CO <sub>2</sub> Capture by Ethylenediamine-Functionalized M <sub>2</sub> (dobpdc) (M = Mg, Sc $\epsilon$ Zn). <i>Inorganic Chemistry</i> , 2020, 59, 16665-16671.	1.9	13
45	Tunable magnetism in metal adsorbed fluorinated nanoporous graphene. <i>Scientific Reports</i> , 2016, 6, 31841.	1.6	12
46	Atomistic Level Mechanism of CO <sub>2</sub> Adsorption in <i>N</i> -Ethylethylenediamine-Functionalized M <sub>2</sub> (dobpdc) Metal $\epsilon$ Organic Frameworks. <i>Crystal Growth and Design</i> , 2020, 20, 6337-6345.	1.4	12
47	Ten new predicted covalent organic frameworks with strong optical response in the visible and near infrared. <i>Journal of Chemical Physics</i> , 2015, 142, 244706.	1.2	11
48	Properties and Detailed Adsorption of CO <sub>2</sub> by M <sub>2</sub> (dobpdc) with <i>N</i> , <i>N</i> -Dimethylethylenediamine Functionalization. <i>Inorganic Chemistry</i> , 2021, 60, 2656-2662.	1.9	11
49	Transition Metals Embedded Two-Dimensional Square Tetrafluorotetracyanoquinodimethane Monolayers as a Class of Novel Electrocatalysts for Nitrogen Reduction Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 25317-25325.	4.0	11
50	Prognostication of two-dimensional transition-metal atoms embedded rectangular tetrafluorotetracyanoquinodimethane single-atom catalysts for high-efficiency electrochemical nitrogen reduction. <i>Journal of Colloid and Interface Science</i> , 2022, 621, 24-32.	5.0	10
51	CO <sub>2</sub> Adsorption Properties of a <i>N</i> , <i>N</i> -Diethylethylenediamine-Appended M <sub>2</sub> (dobpdc) Series of Materials and Their Detailed Microprocess. <i>Crystal Growth and Design</i> , 2021, 21, 2474-2480.	1.4	9
52	Formation Mechanism of Ammonium Carbamate for CO <sub>2</sub> Uptake in <i>N</i> , <i>N</i> $\epsilon$ 2-Dimethylethylenediamine Grafted M <sub>2</sub> (dobpdc). <i>Langmuir</i> , 2020, 36, 14104-14112.	1.6	9
53	A Supported Palladium on Gallium-based Liquid Metal Catalyst for Enhanced Oxygen Reduction Reaction. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 1219-1225.	1.3	7
54	Atomistic Structures, Stabilities, Electronic Properties, and Chemical Bonding of Boron $\epsilon$ Aluminum Mixed Clusters B <sub>3</sub> AlO/ $\hat{r}$ + <i>n</i> ( <i>n</i> $\epsilon$ 0= $\epsilon$ 2 $\epsilon$ 6). <i>Journal of Cluster Science</i> , 2021, 32, 1261-1276.	1.7	4

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55	Structural evolution in boron-based clusters $B_5Al_nO_{-/+}$ ( $n=1-4$ ): Al atoms transition from the periphery of the planar W-shaped $B_5$ ring to the vertex of the bipyramid. <i>European Physical Journal D</i> , 2020, 74, 1.	0.6	4
56	The structures, electronic properties, and chemical bonding of binary alloy boron-aluminum clusters series $B_4Al_nO_{-/+}$ ( $n=1-5$ ). <i>Materials Today Communications</i> , 2020, 24, 100914.	0.9	4
57	Compressive Strain Modulation of Single Iron Sites on Helical Carbon Support Boosts Electrocatalytic Oxygen Reduction. <i>Angewandte Chemie</i> , 2021, 133, 22904-22910.	1.6	4
58	The Evolution of Geometric Structures, Electronic Properties, and Chemical Bonding of Small Phosphorus-Boron Clusters. <i>Condensed Matter</i> , 2022, 7, 36.	0.8	2
59	Interior Melting of the $C_3B_{16}$ and $C_2B_{14}$ Clusters Between 1000 K and 2000 K. <i>Condensed Matter</i> , 2017, 2, 35.	0.8	1