Liangbing Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

44 papers	5,365 citations	172457 29 h-index	289244 40 g-index
45 all docs	45 docs citations	45 times ranked	6778 citing authors

#	Article	IF	Citations
1	Photocatalytic Conversion of Methane: Recent Advancements and Prospects. Angewandte Chemie - International Edition, 2022, 61, .	13.8	111
2	Photocatalytic Conversion of Methane: Recent Advancements and Prospects. Angewandte Chemie, 2022, 134, e202108069.	2.0	46
3	Sulfur vacancy engineering of MoS2 via phosphorus incorporation for improved electrocatalytic N2 reduction to NH3. Applied Catalysis B: Environmental, 2022, 300, 120733.	20.2	85
4	Au atoms doped in Ti3C2Tx MXene: Benefiting recovery of oxygen vacancies towards photocatalytic aerobic oxidation. Nano Research, 2022, 15, 2862-2869.	10.4	25
5	Enhanced uranium photoreduction on Ti3C2Tx MXene by modulation of surface functional groups and deposition of plasmonic metal nanoparticles. Journal of Hazardous Materials, 2022, 426, 127823.	12.4	38
6	Direct conversion of methane to methanol on boron nitride-supported copper single atoms. Nanoscale, 2022, 14, 5447-5453.	5.6	8
7	Regulation of Active Oxygen Species by Grain Boundaries to Optimize Reaction Paths toward Aerobic Oxidations. Energy and Environmental Materials, 2021, 4, 444-450.	12.8	0
8	Encapsulating Ag nanoparticles into ZIF-8 as an efficient strategy to boost uranium photoreduction without sacrificial agents. Journal of Materials Chemistry A, 2021, 9, 9809-9814.	10.3	30
9	Copperâ€Based Plasmonic Catalysis: Recent Advances and Future Perspectives. Advanced Materials, 2021, 33, e2008145.	21.0	131
10	An enzyme-mimicking inorganic catalyst for effective nitrogen photofixation. Chem Catalysis, 2021, 1, 22-24.	6.1	1
11	Cu-based nanocrystals on ZnO for uranium photoreduction: Plasmon-assisted activity and entropy-driven stability. Applied Catalysis B: Environmental, 2021, 288, 119978.	20.2	59
12	Atomic-level insights into the activation of nitrogen via hydrogen-bond interaction toward nitrogen photofixation. CheM, 2021, 7, 2118-2136.	11.7	33
13	Large-scale synthesis of metal nanosheets as highly active catalysts: Combining accumulative roll-bonding and etching process. Frontiers of Materials Science, 2021, 15, 456-464.	2.2	1
14	Copper-Stabilized Pâ€²2-Type Layered Manganese Oxide Cathodes for High-Performance Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 58665-58673.	8.0	24
15	Large-scale and facile synthesis of a porous high-entropy alloy CrMnFeCoNi as an efficient catalyst. Journal of Materials Chemistry A, 2020, 8, 18318-18326.	10.3	37
16	High-Entropy Alloys as a Platform for Catalysis: Progress, Challenges, and Opportunities. ACS Catalysis, 2020, 10, 11280-11306.	11.2	308
17	Modulating oxygen coverage of Ti3C2Tx MXenes to boost catalytic activity for HCOOH dehydrogenation. Nature Communications, 2020, 11, 4251.	12.8	81
18	Near-infrared light-driven photofixation of nitrogen over Ti3C2Tx/TiO2 hybrid structures with superior activity and stability. Applied Catalysis B: Environmental, 2020, 273, 119072.	20.2	86

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19	Porous CuFe for Plasmon-Assisted N₂ Photofixation. ACS Energy Letters, 2020, 5, 2444-2451.	17.4	35
20	Fe Single-Atom Catalyst for Visible-Light-Driven Photofixation of Nitrogen Sensitized by Triphenylphosphine and Sodium Iodide. ACS Catalysis, 2020, 10, 5502-5510.	11.2	51
21	Atomic-level insights in tuning defective structures for nitrogen photofixation over amorphous SmOCl nanosheets. Nano Energy, 2019, 65, 104003.	16.0	36
22	Operando Oxygen Vacancies for Enhanced Activity and Stability toward Nitrogen Photofixation. Advanced Energy Materials, 2019, 9, 1902319.	19.5	88
23	Defect-rich and ultrathin N doped carbon nanosheets as advanced trifunctional metal-free electrocatalysts for the ORR, OER and HER. Energy and Environmental Science, 2019, 12, 322-333.	30.8	1,078
24	In2O3 Nanocrystals for CO2 Fixation: Atomic-Level Insight into the Role of Grain Boundaries. IScience, 2019, 16, 390-398.	4.1	14
25	Anchoring Pt Single Atoms on Te Nanowires for Plasmonâ€Enhanced Dehydrogenation of Formic Acid at Room Temperature. Advanced Science, 2019, 6, 1900006.	11.2	49
26	Photocatalysis: Operando Oxygen Vacancies for Enhanced Activity and Stability toward Nitrogen Photofixation (Adv. Energy Mater. 43/2019). Advanced Energy Materials, 2019, 9, 1970170.	19.5	6
27	Synergetic interaction between neighbouring platinum monomers in CO2 hydrogenation. Nature Nanotechnology, 2018, 13, 411-417.	31.5	584
28	Li⁺ intercalated V₂O₅Â·nH₂O with enlarged layer spacing and fast ion diffusion as an aqueous zinc-ion battery cathode. Energy and Environmental Science, 2018, 11, 3157-3162.	30.8	785
29	Pt Single Atoms Embedded in the Surface of Ni Nanocrystals as Highly Active Catalysts for Selective Hydrogenation of Nitro Compounds. Nano Letters, 2018, 18, 3785-3791.	9.1	127
30	Mechanistic Insights of Zn²⁺ Storage in Sodium Vanadates. Advanced Energy Materials, 2018, 8, 1801819.	19.5	225
31	Integration of Quantum Confinement and Alloy Effect to Modulate Electronic Properties of RhW Nanocrystals for Improved Catalytic Performance toward CO₂ Hydrogenation. Nano Letters, 2017, 17, 788-793.	9.1	91
32	Integration of Photothermal Effect and Heat Insulation to Efficiently Reduce Reaction Temperature of CO₂ Hydrogenation. Small, 2017, 13, 1602583.	10.0	77
33	Frontispiz: Supported Rhodium Catalysts for Ammoniaâ€“Borane Hydrolysis: Dependence of the Catalytic Activity on the Highest Occupied State of the Single Rhodium Atoms. Angewandte Chemie, 2017, 129, .	2.0	0
34	Frontispiece: Supported Rhodium Catalysts for Ammoniaâ€“Borane Hydrolysis: Dependence of the Catalytic Activity on the Highest Occupied State of the Single Rhodium Atoms. Angewandte Chemie - International Edition, 2017, 56, .	13.8	0
35	Supported Rhodium Catalysts for Ammoniaâ€“Borane Hydrolysis: Dependence of the Catalytic Activity on the Highest Occupied State of the Single Rhodium Atoms. Angewandte Chemie, 2017, 129, 4790-4796.	2.0	27
36	Supported Rhodium Catalysts for Ammoniaâ€“Borane Hydrolysis: Dependence of the Catalytic Activity on the Highest Occupied State of the Single Rhodium Atoms. Angewandte Chemie - International Edition, 2017, 56, 4712-4718.	13.8	173

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37	Incorporating nitrogen atoms into cobalt nanosheets as a strategy to boost catalytic activity toward CO2 hydrogenation. Nature Energy, 2017, 2, 869-876.	39.5	179
38	Pt₃Co Octapods as Superior Catalysts of CO₂ Hydrogenation. Angewandte Chemie - International Edition, 2016, 55, 9548-9552.	13.8	162
39	Innentitelbild: Pt₃Co Octapods as Superior Catalysts of CO₂ Hydrogenation (Angew. Chem. 33/2016). Angewandte Chemie, 2016, 128, 9594-9594.	2.0	1
40	Atomic-level insights in optimizing reaction paths for hydroformylation reaction over Rh/CoO single-atom catalyst. Nature Communications, 2016, 7, 14036.	12.8	281
41	Pt₃Co Octapods as Superior Catalysts of CO₂ Hydrogenation. Angewandte Chemie, 2016, 128, 9700-9704.	2.0	20
42	Aerobic Oxidation of Cyclohexane on Catalysts Based on Twinned and Single-Crystal Au₇₅Pd₂₅ Bimetallic Nanocrystals. Nano Letters, 2015, 15, 2875-2880.	9.1	92
43	Ratio-Controlled Synthesis of CuNi Octahedra and Nanocubes with Enhanced Catalytic Activity. Journal of the American Chemical Society, 2015, 137, 14027-14030.	13.7	75
44	Conversion of Methane to Methanol on Cobalt-Embedded Graphene: A Theoretical Perspective. Catalysis Letters, 0, , 1.	2.6	5