

Chade Lv

List of Publications by Year in descending order

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76
papers

5,580
citations

81900

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docs citations

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times ranked

6131
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect Engineering Metal-Free Polymeric Carbon Nitride Electrocatalyst for Effective Nitrogen Fixation under Ambient Conditions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10246-10250.	13.8	619
2	An Amorphous Noble-Metal-Free Electrocatalyst that Enables Nitrogen Fixation under Ambient Conditions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6073-6076.	13.8	568
3	Template-Based Engineering of Carbon-Doped Co_3O_4 Hollow Nanofibers as Anode Materials for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 1428-1436.	14.9	404
4	Selective electrocatalytic synthesis of urea with nitrate and carbon dioxide. <i>Nature Sustainability</i> , 2021, 4, 868-876.	23.7	264
5	Architecting a Stable High-Energy Aqueous Al-Ion Battery. <i>Journal of the American Chemical Society</i> , 2020, 142, 15295-15304.	13.7	188
6	High-efficiency Fe-Mediated Bi_2MoO_6 nitrogen-fixing photocatalyst: Reduced surface work function and ameliorated surface reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117781.	20.2	161
7	A bismuth rich hollow $\text{Bi}_4\text{O}_5\text{Br}_2$ photocatalyst enables dramatic CO_2 reduction activity. <i>Nano Energy</i> , 2019, 64, 103955.	16.0	156
8	An Amorphous Noble-Metal-Free Electrocatalyst that Enables Nitrogen Fixation under Ambient Conditions. <i>Angewandte Chemie</i> , 2018, 130, 6181-6184.	2.0	149
9	Promoting Electrocatalytic Hydrogen Evolution Reaction and Oxygen Evolution Reaction by Fields: Effects of Electric Field, Magnetic Field, Strain, and Light. <i>Small Methods</i> , 2020, 4, 2000494.	8.6	146
10	Machine Learning: An Advanced Platform for Materials Development and State Prediction in Lithium-Ion Batteries. <i>Advanced Materials</i> , 2022, 34, e2101474.	21.0	140
11	Defect Engineering Metal-Free Polymeric Carbon Nitride Electrocatalyst for Effective Nitrogen Fixation under Ambient Conditions. <i>Angewandte Chemie</i> , 2018, 130, 10403-10407.	2.0	139
12	A Defect Engineered Electrocatalyst that Promotes High-Efficiency Urea Synthesis under Ambient Conditions. <i>ACS Nano</i> , 2022, 16, 8213-8222.	14.6	109
13	Achieving $\text{Ni}_3\text{V}_2\text{O}_8$ amorphous wire encapsulated in crystalline tube nanostructure as anode materials for lithium ion batteries. <i>Nano Energy</i> , 2017, 33, 138-145.	16.0	103
14	Engineering 2D Nanofluidic Li-Ion Transport Channels for Superior Electrochemical Energy Storage. <i>Advanced Materials</i> , 2017, 29, 1703909.	21.0	97
15	Molecular adsorption promotes carrier migration: Key step for molecular oxygen activation of defective $\text{Bi}_4\text{O}_5\text{I}_2$. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 53-60.	20.2	94
16	Oxygen Vacancy Engineering of $\text{Bi}_{24}\text{O}_{31}\text{Cl}_{10}$ for Boosted Photocatalytic CO_2 Conversion. <i>ChemSusChem</i> , 2019, 12, 2740-2747.	6.8	92
17	Oxygen-Induced Bi^{5+} -Self-Doped $\text{Bi}_4\text{V}_2\text{O}_{11}$ with a "n Homojunction Toward Promoting the Photocatalytic Performance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23748-23755.	8.0	88
18	Boosting Electrocatalytic Ammonia Production through Mimicking "Back-Donation". <i>Chem</i> , 2020, 6, 2690-2702.	11.7	88

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19	Realizing nanosized interfacial contact via constructing BiVO ₄ /Bi ₄ V ₂ O ₁₁ element-copied heterojunction nanofibres for superior photocatalytic properties. Applied Catalysis B: Environmental, 2015, 179, 54-60.	20.2	84
20	Construction of Bi ₂ WO ₆ homojunction via QDs self-decoration and its improved separation efficiency of charge carriers and photocatalytic ability. Applied Catalysis B: Environmental, 2014, 160-161, 383-389.	20.2	82
21	An All-Organic Driven System for Visible-Light-Driven Overall Water Splitting. Small, 2020, 16, e2003914.	10.0	80
22	Stability, durability and regeneration ability of a novel Ag-based photocatalyst, Ag ₂ Nb ₄ O ₁₁ . Chemical Communications, 2014, 50, 6596-6599.	4.1	73
23	Mimicking π Backdonation in Ce-MOFs for Solar-Driven Ammonia Synthesis. ACS Applied Materials & Interfaces, 2019, 11, 29917-29923.	8.0	70
24	Highly-effective photocatalytic properties and interfacial transfer efficiencies of charge carriers for the novel Ag ₂ CO ₃ /AgX heterojunctions achieved by surface modification. Dalton Transactions, 2014, 43, 7282-7289.	3.3	66
25	Integrating both homojunction and heterojunction in QDs self-decorated Bi ₂ MoO ₆ /BCN composites to achieve an efficient photocatalyst for Cr(VI) reduction. Chemical Engineering Journal, 2018, 334, 334-343.	12.7	66
26	Cyano group modified g-C ₃ N ₄ : Molten salt method achievement and promoted photocatalytic nitrogen fixation activity. Applied Surface Science, 2020, 515, 146009.	6.1	63
27	Reversible Al Metal Anodes Enabled by Amorphization for Aqueous Aluminum Batteries. Journal of the American Chemical Society, 2022, 144, 11444-11455.	13.7	63
28	Organic salt induced electrospinning gradient effect: Achievement of BiVO ₄ nanotubes with promoted photocatalytic performance. Applied Catalysis B: Environmental, 2017, 208, 14-21.	20.2	60
29	An advanced Ag-based photocatalyst Ag ₂ Ta ₄ O ₁₁ with outstanding activity, durability and universality for removing organic dyes. Physical Chemistry Chemical Physics, 2014, 16, 23915-23921.	2.8	59
30	<i>In Situ</i> Fabrication of Bi ₂ WO ₆ /MoS ₂ /RGO Heterojunction with Nanosized Interfacial Contact via Confined Space Effect toward Enhanced Photocatalytic Properties. ACS Sustainable Chemistry and Engineering, 2016, 4, 5936-5942.	6.7	58
31	Significantly Improving Lithium-Ion Transport via Conjugated Anion Intercalation in Inorganic Layered Hosts. ACS Nano, 2018, 12, 8670-8677.	14.6	54
32	Single-Atom Fe Triggers Superb CO ₂ Photoreduction on a Bismuth-Rich Catalyst. , 2021, 3, 364-371.		54
33	Heterogeneous Molten Salt Design Strategy toward Coupling Cobalt-Cobalt Oxide and Carbon for Efficient Energy Conversion and Storage. Advanced Energy Materials, 2018, 8, 1800762.	19.5	51
34	Engineering Mesoporous Single Crystals Co-Doped Fe ₂ O ₃ for High-Performance Lithium Ion Batteries. Inorganic Chemistry, 2017, 56, 7642-7649.	4.0	50
35	Amorphous engineered cerium oxides photocatalyst for efficient nitrogen fixation. Applied Catalysis B: Environmental, 2020, 264, 118416.	20.2	48
36	Controllable synthesis of In ₂ O ₃ octodecahedra exposing {110} facets with enhanced gas sensing performance. RSC Advances, 2015, 5, 44306-44312.	3.6	46

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37	Dual ions intercalation drives high-performance aqueous Zn-ion storage on birnessite-type manganese oxides cathode. <i>Energy Storage Materials</i> , 2022, 49, 164-171.	18.0	43
38	Edge dislocation surface modification: A new and efficient strategy for realizing outstanding lithium storage performance. <i>Nano Energy</i> , 2015, 15, 558-566.	16.0	42
39	Enabling Nitrogen Fixation on Bi ₂ WO ₆ Photocatalyst by c-PAN Surface Decoration. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11190-11195.	6.7	42
40	Construction of π - π^* Phase Junction on Bi ₄ V ₂ O ₁₁ via Electrospinning Retardation Effect and Its Promoted Photocatalytic Performance. <i>Inorganic Chemistry</i> , 2016, 55, 4782-4789.	4.0	41
41	One-dimensional Co ₃ O ₄ nanonet with enhanced rate performance for lithium ion batteries: Carbonyl- β -cyclodextrin inducing and kinetic analysis. <i>Chemical Engineering Journal</i> , 2017, 321, 31-39.	12.7	40
42	Realizing the regulated carrier separation and exciton generation of Bi ₂₄ O ₃₁ Cl ₁₀ via a carbon doping strategy. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24350-24357.	10.3	39
43	Dual Tuning of Composition and Nanostructure of Hierarchical Hollow Nanopolyhedra Assembled by NiCo-Layered Double Hydroxide Nanosheets for Efficient Electrocatalytic Oxygen Evolution. <i>ACS Applied Energy Materials</i> , 2019, 2, 312-319.	5.1	39
44	A facile approach to construct BiOI/Bi ₅ O ₇ I composites with heterostructures: efficient charge separation and enhanced photocatalytic activity. <i>RSC Advances</i> , 2015, 5, 74174-74179.	3.6	38
45	Lattice-strain engineering of CoOOH induced by NiMn-MOF for high-efficiency supercapacitor and water oxidation electrocatalysis. <i>Journal of Colloid and Interface Science</i> , 2022, 623, 1111-1121.	9.4	36
46	NiO Quantum Dot Modified TiO ₂ toward Robust Hydrogen Production Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 889-896.	6.7	34
47	Iron selenide nanoparticles-encapsulated within bamboo-like N-doped carbon nanotubes as composite anodes for superior lithium and sodium-ion storage. <i>Chemical Engineering Journal</i> , 2022, 435, 135185.	12.7	33
48	A broom-like tube-in-tube bundle O-doped graphitic carbon nitride nanoreactor that promotes photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2022, 431, 133898.	12.7	30
49	A 1D Honeycomb-Like Amorphous Zinc Vanadate for Stable and Fast Sodium-Ion Storage. <i>Small</i> , 2020, 16, e1906214.	10.0	27
50	Interface engineering on cobalt selenide composites enables superior Alkali-Ion storage. <i>Chemical Engineering Journal</i> , 2021, 419, 129490.	12.7	26
51	A novel anode comprised of C&N co-doped Co ₃ O ₄ hollow nanofibres with excellent performance for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19531-19535.	2.8	25
52	Design and fabrication of Co ₃ V ₂ O ₈ nanotubes by electrospinning as a high-performance anode for lithium-ion batteries. <i>New Journal of Chemistry</i> , 2017, 41, 5974-5980.	2.8	22
53	Integration of cobalt selenide nanocrystals with interlayer expanded 3D Se/N Co-doped carbon networks for superior sodium-ion storage. <i>Journal of Energy Chemistry</i> , 2021, 55, 169-175.	12.9	22
54	One-dimensional Bi ₂ O ₃ QD-decorated BiVO ₄ nanofibers: electrospinning synthesis, phase separation mechanism and enhanced photocatalytic performance. <i>RSC Advances</i> , 2015, 5, 3767-3773.	3.6	20

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55	Engineering Reductive Iron on a Layered Double Hydroxide Electrocatalyst for Facilitating Nitrogen Reduction Reaction. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	19
56	Template-free preparation of mesoporous single crystal In_2O_3 achieving superior ethanol gas sensing performance. <i>RSC Advances</i> , 2016, 6, 14615-14619.	3.6	18
57	Construction of 2D-composite $\text{HfCa}_2\text{Nb}_3\text{O}_{10}/\text{CaNb}_2\text{O}_6$ heterostructured photocatalysts with enhanced hydrogen production performance. <i>New Journal of Chemistry</i> , 2018, 42, 681-687.	2.8	18
58	Electric field effect in a $\text{Co}_3\text{O}_4/\text{TiO}_2$ p-n junction for superior lithium-ion storage. <i>Materials Chemistry Frontiers</i> , 2019, 3, 909-915.	5.9	18
59	A thin empty-shell bismuth tungstate hierarchical structure constructed by the acid sculpture effect with improved visible-light photocatalytic activity. <i>New Journal of Chemistry</i> , 2015, 39, 4384-4390.	2.8	17
60	An in-plane S-scheme heterostructure drives H_2 production with water and solar energy. <i>Chemical Engineering Journal</i> , 2022, 437, 135280.	12.7	17
61	Realizing improved CO_2 photoreduction in Z-scheme $\text{Bi}_4\text{O}_5\text{Br}_2/\text{AgBr}$ heterostructure. <i>Applied Surface Science</i> , 2022, 598, 153758.	6.1	15
62	Stabilising a Mn_3O_4 nanosheet on graphene via forming a 2D@2D nanostructure for improvement of lithium storage. <i>RSC Advances</i> , 2015, 5, 106206-106212.	3.6	14
63	Durability, inactivation and regeneration of silver tetratantalate in photocatalytic H_2 evolution. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 795-799.	2.8	13
64	Fabrication and study of the synergistic effect of Janus $\text{Ni}_2\text{P}/\text{Ni}_5\text{P}_4$ embedded in N-doped carbon as efficient electrocatalysts for hydrogen evolution reaction. <i>Catalysis Science and Technology</i> , 2020, 10, 1023-1029.	4.1	13
65	The synthesis of elegant hierarchical CdS via a facile hydrothermal method assisted by inorganic salt, with photocorrosion inhibition. <i>CrystEngComm</i> , 2016, 18, 7523-7529.	2.6	12
66	Low-temperature solid-state synthesis of interlayer engineered VS ₄ for high-capacity and ultrafast sodium-ion storage. <i>Chemical Engineering Journal</i> , 2022, 433, 133765.	12.7	12
67	Well-defined Sb_2S_3 nanostructures: citric acid-assisted synthesis, electrochemical hydrogen storage properties. <i>Crystal Research and Technology</i> , 2013, 48, 566-573.	1.3	10
68	Controllable and facile synthesis of nearly monodisperse 18-facet indium hydroxide polyhedra. <i>New Journal of Chemistry</i> , 2015, 39, 1930-1937.	2.8	10
69	$\text{g-C}_3\text{N}_4/\text{SnS}_2$ van der Waals Heterostructures Enabling High-Efficiency Photocatalytic Hydrogen Evolution. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	10
70	Electrospinning technique synthesis and electrical performances of one dimensional $\text{Ca}_2\text{Co}_2\text{O}_5$ with hierarchical structure. <i>Materials Letters</i> , 2015, 158, 182-185.	2.6	8
71	UWB/Binocular VO Fusion Algorithm Based on Adaptive Kalman Filter. <i>Sensors</i> , 2019, 19, 4044.	3.8	7
72	Mobile Robot Integrated Navigation Algorithm Based on Template Matching VO/IMU/UWB. <i>IEEE Sensors Journal</i> , 2021, 21, 27957-27966.	4.7	6

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73	A novel visible light-driven silver isocyanate photocatalyst: superior stability enhanced by intrinsic resonance effect. RSC Advances, 2015, 5, 96265-96271.	3.6	5
74	Monocular Visual Odometry Using Template Matching and IMU. IEEE Sensors Journal, 2021, 21, 17207-17218.	4.7	4
75	Molten Salt Synthesis of BiOCl _x Br _{1-x} with Enhanced Photocatalytic Activity Under Visible Light. Energy and Environment Focus, 2015, 4, 157-163.	0.3	2
76	Amorphous Noble-Metal-Free Electrocatalyst that Enables Nitrogen Fixation under Ambient Conditions (Angew. Chem. 21/2018). Angewandte Chemie, 2018, 130, 6462-6462.	2.0	0