Chade Lv

List of Publications by Year
in descending order

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76 papers	5,580 citations	81900 39 h-index	79698 73 g-index
79 all docs	79 docs citations	79 times ranked	6131 citing authors

#	Article	IF	Citations
1	Machine Learning: An Advanced Platform for Materials Development and State Prediction in Lithiumâ€Ion Batteries. Advanced Materials, 2022, 34, e2101474.	21.0	140
2	Low-temperature solid-state synthesis of interlayer engineered VS4 for high-capacity and ultrafast sodium-ion storage. Chemical Engineering Journal, 2022, 433, 133765.	12.7	12
3	A broom-like tube-in-tube bundle O-doped graphitic carbon nitride nanoreactor that promotes photocatalytic hydrogen evolution. Chemical Engineering Journal, 2022, 431, 133898.	12.7	30
4	Engineering Reductive Iron on a Layered Double Hydroxide Electrocatalyst for Facilitating Nitrogen Reduction Reaction. Advanced Materials Interfaces, 2022, 9, .	3.7	19
5	Iron selenide nanoparticles-encapsulated within bamboo-like N-doped carbon nanotubes as composite anodes for superior lithium and sodium-ion storage. Chemical Engineering Journal, 2022, 435, 135185.	12.7	33
6	A Defect Engineered Electrocatalyst that Promotes High-Efficiency Urea Synthesis under Ambient Conditions. ACS Nano, 2022, 16, 8213-8222.	14.6	109
7	Dual ions intercalation drives high-performance aqueous Zn-ion storage on birnessite-type manganese oxides cathode. Energy Storage Materials, 2022, 49, 164-171.	18.0	43
8	An in-plane S-scheme heterostructure drives H2 production with water and solar energy. Chemical Engineering Journal, 2022, 437, 135280.	12.7	17
9	Lattice-strain engineering of CoOOH induced by NiMn-MOF for high-efficiency supercapacitor and water oxidation electrocatalysis. Journal of Colloid and Interface Science, 2022, 623, 1111-1121.	9.4	36
10	gâ€C₃N₄/SnS₂ van der Waals Heterostructures Enabling Highâ€Efficiency Photocatalytic Hydrogen Evolution. Advanced Materials Interfaces, 2022, 9, .	3.7	10
11	Realizing improved CO2 photoreduction in Z-scheme Bi4O5Br2/AgBr heterostructure. Applied Surface Science, 2022, 598, 153758.	6.1	15
12	Reversible Al Metal Anodes Enabled by Amorphization for Aqueous Aluminum Batteries. Journal of the American Chemical Society, 2022, 144, 11444-11455.	13.7	63
13	Integration of cobalt selenide nanocrystals with interlayer expanded 3D Se/N Co-doped carbon networks for superior sodium-ion storage. Journal of Energy Chemistry, 2021, 55, 169-175.	12.9	22
14	Single-Atom Fe Triggers Superb CO₂ Photoreduction on a Bismuth-Rich Catalyst. , 2021, 3, 364-371.		54
15	Selective electrocatalytic synthesis of urea with nitrate and carbon dioxide. Nature Sustainability, 2021, 4, 868-876.	23.7	264
16	Monocular Visual Odometry Using Template Matching and IMU. IEEE Sensors Journal, 2021, 21, 17207-17218.	4.7	4
17	Interface engineering on cobalt selenide composites enables superior Alkali-Ion storage. Chemical Engineering Journal, 2021, 419, 129490.	12.7	26
18	Mobile Robot Integrated Navigation Algorithm Based on Template Matching VO/IMU/UWB. IEEE Sensors Journal, 2021, 21, 27957-27966.	4.7	6

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19	Fabrication and study of the synergistic effect of Janus Ni₂P/Ni₅P₄ embedded in N-doped carbon as efficient electrocatalysts for hydrogen evolution reaction. Catalysis Science and Technology, 2020, 10, 1023-1029.	4.1	13
20	Amorphous engineered cerium oxides photocatalyst for efficient nitrogen fixation. Applied Catalysis B: Environmental, 2020, 264, 118416.	20.2	48
21	An Allâ€Organic Dâ€A System for Visibleâ€Lightâ€Driven Overall Water Splitting. Small, 2020, 16, e2003914.	10.0	80
22	Architecting a Stable High-Energy Aqueous Al-Ion Battery. Journal of the American Chemical Society, 2020, 142, 15295-15304.	13.7	188
23	Boosting Electrocatalytic Ammonia Production through Mimicking â€œÏ€ Back-Donationâ€• CheM, 2020, 6, 2690-2702.	11.7	88
24	Promoting Electrocatalytic Hydrogen Evolution Reaction and Oxygen Evolution Reaction by Fields: Effects of Electric Field, Magnetic Field, Strain, and Light. Small Methods, 2020, 4, 2000494.	8.6	146
25	Cyano group modified g-C3N4: Molten salt method achievement and promoted photocatalytic nitrogen fixation activity. Applied Surface Science, 2020, 515, 146009.	6.1	63
26	A 1D Honeycombâ€Like Amorphous Zincic Vanadate for Stable and Fast Sodiumâ€Ion Storage. Small, 2020, 16, e1906214.	10.0	27
27	A bismuth rich hollow Bi4O5Br2 photocatalyst enables dramatic CO2 reduction activity. Nano Energy, 2019, 64, 103955.	16.0	156
28	Mimicking Ï€ Backdonation in Ce-MOFs for Solar-Driven Ammonia Synthesis. ACS Applied Materials & Interfaces, 2019, 11, 29917-29923.	8.0	70
29	UWB/Binocular VO Fusion Algorithm Based on Adaptive Kalman Filter. Sensors, 2019, 19, 4044.	3.8	7
30	High-efficiency Fe-Mediated Bi2MoO6 nitrogen-fixing photocatalyst: Reduced surface work function and ameliorated surface reaction. Applied Catalysis B: Environmental, 2019, 256, 117781.	20.2	161
31	Oxygen Vacancy Engineering of Bi₂₄O₃₁Cl₁₀ for Boosted Photocatalytic CO₂ Conversion. ChemSusChem, 2019, 12, 2740-2747.	6.8	92
32	Electric field effect in a Co₃O₄/TiO₂ pâ€“n junction for superior lithium-ion storage. Materials Chemistry Frontiers, 2019, 3, 909-915.	5.9	18
33	Dual Tuning of Composition and Nanostructure of Hierarchical Hollow Nanopolyhedra Assembled by NiCo-Layered Double Hydroxide Nanosheets for Efficient Electrocatalytic Oxygen Evolution. ACS Applied Energy Materials, 2019, 2, 312-319.	5.1	39
34	NiO Quantum Dot Modified TiO2 toward Robust Hydrogen Production Performance. ACS Sustainable Chemistry and Engineering, 2018, 6, 889-896.	6.7	34
35	An Amorphous Nobleâ€Metalâ€Free Electrocatalyst that Enables Nitrogen Fixation under Ambient Conditions. Angewandte Chemie, 2018, 130, 6181-6184.	2.0	149
36	An Amorphous Nobleâ€Metalâ€Free Electrocatalyst that Enables Nitrogen Fixation under Ambient Conditions. Angewandte Chemie - International Edition, 2018, 57, 6073-6076.	13.8	568

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37	Integrating both homojunction and heterojunction in QDs self-decorated Bi2MoO6/BCN composites to achieve an efficient photocatalyst for Cr(VI) reduction. Chemical Engineering Journal, 2018, 334, 334-343.	12.7	66
38	Construction of 2D-composite HCa2Nb3O10/CaNb2O6 heterostructured photocatalysts with enhanced hydrogen production performance. New Journal of Chemistry, 2018, 42, 681-687.	2.8	18
39	Molecular adsorption promotes carrier migration: Key step for molecular oxygen activation of defective Bi4O5I2. Applied Catalysis B: Environmental, 2018, 226, 53-60.	20.2	94
40	Realizing the regulated carrier separation and exciton generation of Bi₂₄O₃₁Cl₁₀via a carbon doping strategy. Journal of Materials Chemistry A, 2018, 6, 24350-24357.	10.3	39
41	Heterogeneous Molten Salt Design Strategy toward Coupling Cobaltâ€“Cobalt Oxide and Carbon for Efficient Energy Conversion and Storage. Advanced Energy Materials, 2018, 8, 1800762.	19.5	51
42	RÃ¼cktitelbild: An Amorphous Nobleâ€Metalâ€Free Electrocatalyst that Enables Nitrogen Fixation under Ambient Conditions (Angew. Chem. 21/2018). Angewandte Chemie, 2018, 130, 6462-6462.	2.0	0
43	Defect Engineering Metalâ€Free Polymeric Carbon Nitride Electrocatalyst for Effective Nitrogen Fixation under Ambient Conditions. Angewandte Chemie, 2018, 130, 10403-10407.	2.0	139
44	Defect Engineering Metalâ€Free Polymeric Carbon Nitride Electrocatalyst for Effective Nitrogen Fixation under Ambient Conditions. Angewandte Chemie - International Edition, 2018, 57, 10246-10250.	13.8	619
45	Enabling Nitrogen Fixation on Bi₂WO₆ Photocatalyst by c-PAN Surface Decoration. ACS Sustainable Chemistry and Engineering, 2018, 6, 11190-11195.	6.7	42
46	Significantly Improving Lithium-Ion Transport via Conjugated Anion Intercalation in Inorganic Layered Hosts. ACS Nano, 2018, 12, 8670-8677.	14.6	54
47	Achieving Ni3V2O8 amorphous wire encapsulated in crystalline tube nanostructure as anode materials for lithium ion batteries. Nano Energy, 2017, 33, 138-145.	16.0	103
48	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
49	Design and fabrication of Co₃V₂O₈nanotubes by electrospinning as a high-performance anode for lithium-ion batteries. New Journal of Chemistry, 2017, 41, 5974-5980.	2.8	22
50	One-dimensional Co 3 O 4 nanonet with enhanced rate performance for lithium ion batteries: Carbonyl- Î² -cyclodextrin inducing and kinetic analysis. Chemical Engineering Journal, 2017, 321, 31-39.	12.7	40
51	Engineering 2D Nanofluidic Liâ€Ion Transport Channels for Superior Electrochemical Energy Storage. Advanced Materials, 2017, 29, 1703909.	21.0	97
52	Engineering Mesoporous Single Crystals Co-Doped Fe₂O₃ for High-Performance Lithium Ion Batteries. Inorganic Chemistry, 2017, 56, 7642-7649.	4.0	50
53	Oxygen-Induced Bi⁵⁺-Self-Doped Bi₄V₂O₁₁ with a pâ€“n Homojunction Toward Promoting the Photocatalytic Performance. ACS Applied Materials & Interfaces, 2017, 9, 23748-23755.	8.0	88
54	In Situ Fabrication of Bi₂WO₆/MoS₂/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

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55	Templateâ€Based Engineering of Carbonâ€Doped Co₃O₄ Hollow Nanofibers as Anode Materials for Lithiumâ€Ion Batteries. Advanced Functional Materials, 2016, 26, 1428-1436.	14.9	404
56	Construction of Î±â€“Î² Phase Junction on Bi₄V₂O₁₁ via Electrospinning Retardation Effect and Its Promoted Photocatalytic Performance. Inorganic Chemistry, 2016, 55, 4782-4789.	4.0	41
57	The synthesis of elegant hierarchical CdS via a facile hydrothermal method assisted by inorganic salt, with photocorrosion inhibition. CrystEngComm, 2016, 18, 7523-7529.	2.6	12
58	A novel anode comprised of C&N co-doped Co₃O₄ hollow nanofibres with excellent performance for lithium-ion batteries. Physical Chemistry Chemical Physics, 2016, 18, 19531-19535.	2.8	25
59	Template-free preparation of mesoporous single crystal In₂O₃ achieving superior ethanol gas sensing performance. RSC Advances, 2016, 6, 14615-14619.	3.6	18
60	Controllable synthesis of In₂O₃ octodecahedra exposing {110} facets with enhanced gas sensing performance. RSC Advances, 2015, 5, 44306-44312.	3.6	46
61	A thin empty-shell bismuth tungstate hierarchical structure constructed by the acid sculpture effect with improved visible-light photocatalytic activity. New Journal of Chemistry, 2015, 39, 4384-4390.	2.8	17
62	Edge dislocation surface modification: A new and efficient strategy for realizing outstanding lithium storage performance. Nano Energy, 2015, 15, 558-566.	16.0	42
63	Stabilising a Mn₃O₄ nanosheet on graphene via forming a 2Dâ€“2D nanostructure for improvement of lithium storage. RSC Advances, 2015, 5, 106206-106212.	3.6	14
64	Controllable and facile synthesis of nearly monodisperse 18-facet indium hydroxide polyhedra. New Journal of Chemistry, 2015, 39, 1930-1937.	2.8	10
65	Electrospinning technique synthesis and electrical performances of one dimensional Ca2Co2O5 with hierarchical structure. Materials Letters, 2015, 158, 182-185.	2.6	8
66	Realizing nanosized interfacial contact via constructing BiVO4/Bi4V2O11 element-copied heterojunction nanofibres for superior photocatalytic properties. Applied Catalysis B: Environmental, 2015, 179, 54-60.	20.2	84
67	A novel visible light-driven silver isocyanate photocatalyst: superior stability enhanced by intrinsic resonance effect. RSC Advances, 2015, 5, 96265-96271.	3.6	5
68	Molten Salt Synthesis of BiOClxBr1â€“x with Enhanced Photocatalytic Activity Under Visible Light. Energy and Environment Focus, 2015, 4, 157-163.	0.3	2
69	A facile approach to construct BiOI/Bi₅O₇I composites with heterostructures: efficient charge separation and enhanced photocatalytic activity. RSC Advances, 2015, 5, 74174-74179.	3.6	38
70	Durability, inactivation and regeneration of silver tetratantalate in photocatalytic H₂ evolution. Physical Chemistry Chemical Physics, 2015, 17, 795-799.	2.8	13
71	One-dimensional Bi₂O₃ QD-decorated BiVO₄ nanofibers: electrospinning synthesis, phase separation mechanism and enhanced photocatalytic performance. RSC Advances, 2015, 5, 3767-3773.	3.6	20
72	Highly-effective photocatalytic properties and interfacial transfer efficiencies of charge carriers for the novel Ag₂CO₃/AgX heterojunctions achieved by surface modification. Dalton Transactions, 2014, 43, 7282-7289.	3.3	66

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73	An advanced Ag-based photocatalyst Ag₂Ta₄O₁₁ with outstanding activity, durability and universality for removing organic dyes. Physical Chemistry Chemical Physics, 2014, 16, 23915-23921.	2.8	59
74	Stability, durability and regeneration ability of a novel Ag-based photocatalyst, Ag₂Nb₄O₁₁. Chemical Communications, 2014, 50, 6596-6599.	4.1	73
75	Construction of Bi2WO6 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
76	Wellâ€defined Sb₂S₃ nanostructures: citric acidâ€assisted synthesis, electrochemical hydrogen storage properties. Crystal Research and Technology, 2013, 48, 566-573.	1.3	10