Yanjie Hu

List of Publications by Year
in descending order

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109 papers	5,501 citations	87723 38 h-index	85405 71 g-index
110 all docs	110 docs citations	110 times ranked	7213 citing authors

#	Article	IF	Citations
1	Lithium-conductive LiNbO3 coated high-voltage LiNi0.5Co0.2Mn0.3O2 cathode with enhanced rate and cyclability. Green Energy and Environment, 2022, 7, 266-274.	4.7	41
2	Highly efficient Au/Fe2O3 for CO oxidation: The vital role of spongy Fe2O3 toward high catalytic activity and stability. Journal of Colloid and Interface Science, 2022, 608, 2181-2191.	5.0	14
3	Strongly coupled N-doped graphene quantum dots/Ni(Fe)OxHy electrocatalysts with accelerated reaction kinetics for water oxidation. Chemical Engineering Journal, 2022, 430, 133068.	6.6	17
4	Vacancy-mediated Interfacial Charge Transfer in Au-ZnO by Fe promoter for low-temperature CO oxidation.. Journal of Environmental Chemical Engineering, 2022, 10, 106651.	3.3	1
5	Heterogeneous MoSe₂/Nitrogenâ€Dopedâ€Carbon Nanoarrays: Engineering Atomic Interface for Potassiumâ€Ion Storage. Advanced Functional Materials, 2022, 32, 2110223.	7.8	29
6	Construction of CuInS2/C/TiO2 hierarchical tandem heterostructures with optimized CO2 photoreduction under visible light. Chemical Engineering Journal, 2022, 433, 133679.	6.6	24
7	Engineering V₂O₃ nanoarrays with abundant localized defects towards high-voltage aqueous supercapacitors. Journal of Materials Chemistry A, 2022, 10, 4825-4832.	5.2	6
8	Defect engineered SnO₂ nanoparticles enable strong CO₂ chemisorption toward efficient electroconversion to formate. Dalton Transactions, 2022, 51, 3512-3519.	1.6	7
9	Co₃O₄ Quantum Dot-Catalyzed Lithium Oxalate as a Capacity and Cycle-Life Enhancer in Lithium-Ion Full Cells. ACS Applied Energy Materials, 2022, 5, 2112-2120.	2.5	10
10	Electricity generation from water evaporation through highly conductive carbonized wood with abundant hydroxyls. Sustainable Energy and Fuels, 2022, 6, 2249-2255.	2.5	11
11	Introducing the Solvent Coâ€Intercalation Mechanism for Hard Carbon with Ultrafast Sodium Storage. Small, 2022, 18, e2108092.	5.2	14
12	Numerical simulation of flow field and residence time of nanoparticles in a 1000-ton industrial multi-jet combustion reactor. Chinese Journal of Chemical Engineering, 2022, 51, 86-99.	1.7	3
13	Fe-doped and sulfur-enriched Ni3S2 nanowires with enhanced reaction kinetics for boosting water oxidation. Green Chemical Engineering, 2022, 3, 367-373.	3.3	14
14	Boosting the efficiency of low-loaded Au on spongy Fe2O3 via interfacial ferric hydroxide for low-temperature CO oxidation. Materials Chemistry and Physics, 2022, 288, 126407.	2.0	2
15	Confined construction of porous conductive framework Na3V2(PO4)3 nanocrystals and their ultrahigh rate and microtherm sodium storage performance. Chemical Engineering Science, 2022, 262, 117912.	1.9	5
16	Supersaturated bridge-sulfur and vanadium co-doped MoS2 nanosheet arrays with enhanced sodium storage capability. Nano Research, 2021, 14, 74-80.	5.8	42
17	Fluorination-enabled Reconstruction of NiFe Electrocatalysts for Efficient Water Oxidation. Nano Letters, 2021, 21, 492-499.	4.5	190
18	Hierarchical TiO2 microspheres with enlarged lattice spacing for rapid and ultrastable sodium storage. Chemical Engineering Science, 2021, 231, 116298.	1.9	11

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19	Densified MoS2/Ti3C2 films with balanced porosity for ultrahigh volumetric capacity sodium-ion battery. Chemical Engineering Journal, 2021, 413, 127479.	6.6	33
20	Atomic heterointerface engineering overcomes the activity limitation of electrocatalysts and promises highly-efficient alkaline water splitting. Energy and Environmental Science, 2021, 14, 5228-5259.	15.6	198
21	Optimizing the catalytic activity of flameâ€sprayâ€pyrolyzed Pt/Fe₂O₃ catalyst toward CO oxidation: Effect of fluorination and reduction. Nano Select, 2021, 2, 744-757.	1.9	4
22	Pomegranate-like Ti-doped LiNi0.4Mn1.6O4 5ÂV-class cathode with superior high-voltage cycle and rate performance for Li-ion batteries. Chemical Engineering Science, 2021, 231, 116297.	1.9	16
23	Promotional effects of Cu O on the activity of Cu/ZnO catalyst toward efficient CO oxidation. Applied Surface Science, 2021, 548, 149241.	3.1	20
24	Revealing the Sudden Alternation in Pt@hâ€BN Nanoreactors for Nearly 100% CO₂â€toâ€CH₄ Photoreduction. Advanced Functional Materials, 2021, 31, 2010780.	7.8	43
25	Flame process constructing CQDs/TiO2-C heterostructure with novel electron transfer channel between internal and external carbon species. Combustion and Flame, 2021, 228, 163-172.	2.8	9
26	Surface enrichment and diffusion enabling gradient-doping and coating of Ni-rich cathode toward Li-ion batteries. Nature Communications, 2021, 12, 4564.	5.8	153
27	New insights on ultrafast Na[solv]+ coinserted graphite driven by an electric field. Science China Materials, 2021, 64, 2967-2975.	3.5	3
28	Optimizing SnO_{2â^'}_x/Fe₂O₃ Heteroâ€Nanocrystals Toward Rapid and Highly Reversible Lithium Storage. Small, 2021, 17, e2103532.	5.2	20
29	Lightâ€Motivated SnO₂/TiO₂ Heterojunctions Enabling the Breakthrough in Energy Density for Lithiumâ€Ion Batteries. Advanced Materials, 2021, 33, e2103558.	11.1	73
30	Construction of hierarchical functional nanomaterials for energy conversion and storage. Particuology, 2020, 48, 34-47.	2.0	6
31	MXene interlayer anchored Fe3O4 nanocrystals for ultrafast Li-ion batteries. Chemical Engineering Science, 2020, 212, 115342.	1.9	42
32	Inactive step-edge Pt atoms boost oxygen reduction reaction by activating adsorbed hydrogen atoms. Applied Surface Science, 2020, 504, 144434.	3.1	6
33	Selenium vacancy triggered atomic disordering of Co_{0.85}Se nanoparticles towards a highly-active electrocatalyst for water oxidation. Chemical Communications, 2020, 56, 14451-14454.	2.2	14
34	Electron transfer effect from Au to Pt in Au-Pt/TiO2 towards efficient catalytic activity in CO oxidation at low temperature. Applied Surface Science, 2020, 521, 146447.	3.1	25
35	Nanospaceâ€Confinement Synthesis: Designing Highâ€Energy Anode Materials toward Ultrastable Lithiumâ€Ion Batteries. Small, 2020, 16, e2002351.	5.2	13
36	Ultra-fast construction of plaque-like Li2TiO3/TiO2 heterostructure for efficient gas-solid phase CO2 photoreduction. Applied Catalysis B: Environmental, 2020, 269, 118810.	10.8	46

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37	High-efficiency Mo doping stabilized LiNi0.9Co0.1O2 cathode materials for rapid charging and long-life Li-ion batteries. Chemical Engineering Science, 2020, 217, 115518.	1.9	45
38	Boosting reaction kinetics and reversibility in Mott-Schottky VS2/MoS2 heterojunctions for enhanced lithium storage. Science Bulletin, 2020, 65, 1470-1478.	4.3	64
39	Aerosol Spray Pyrolysis Synthesis of Porous Anatase TiO2 Microspheres with Tailored Photocatalytic Activity. Acta Metallurgica Sinica (English Letters), 2019, 32, 286-296.	1.5	4
40	The formation of steady gas film on the inner wall of the radial multiple jets-in-crossflow reactor. Chemical Engineering and Processing: Process Intensification, 2019, 143, 107617.	1.8	1
41	Revealing the Electrochemical Mechanism of Cationic/Anionic Redox on Li-Rich Layered Oxides via Controlling the Distribution of Primary Particle Size. ACS Applied Materials & Interfaces, 2019, 11, 25796-25803.	4.0	8
42	In-situ enriching active sites on co-doped Fe-Co4N@N-C nanosheet array as air cathode for flexible rechargeable Zn-air batteries. Applied Catalysis B: Environmental, 2019, 256, 117893.	10.8	184
43	Evaluation of mixing performance for the industrial-scale radial multiple jets-in-crossflow mixing structure. Chemical Engineering and Processing: Process Intensification, 2019, 141, 107534.	1.8	5
44	In-situ synthesized surface N-doped Pt/TiO2 via flame spray pyrolysis with enhanced thermal stability for CO catalytic oxidation. Applied Surface Science, 2019, 481, 360-368.	3.1	27
45	110th Anniversary: Concurrently Coating and Doping High-Valence Vanadium in Nickel-Rich Lithiated Oxides for High-Rate and Stable Lithium-Ion Batteries. Industrial & Engineering Chemistry Research, 2019, 58, 4108-4115.	1.8	33
46	Tailorable surface sulfur chemistry of mesoporous Ni₃S₂ particles for efficient oxygen evolution. Journal of Materials Chemistry A, 2019, 7, 7548-7552.	5.2	72
47	Internal-diffusion controlled synthesis of V2O5 hollow microspheres for superior lithium-ion full batteries. Chemical Engineering Science, 2019, 200, 38-45.	1.9	23
48	Exposed Surface Engineering of High-voltage LiNi_{0.5}Co_{0.2}Mn_{0.3}O₂ Cathode Materials Enables High-rate and Durable Li-ion Batteries. Industrial & Engineering Chemistry Research, 2019, 58, 23099-23105.	1.8	16
49	Interface-strengthened CoP nanosheet array with Co2P nanoparticles as efficient electrocatalysts for overall water splitting. Journal of Energy Chemistry, 2019, 37, 1-6.	7.1	81
50	Facile synthesis of multi-shelled hollow Cu CeO2 microspheres with promoted catalytic performance for preferential oxidation of CO. Materials Chemistry and Physics, 2019, 226, 158-168.	2.0	11
51	Unsaturated Sulfur Edge Engineering of Strongly Coupled MoS₂ Nanosheetâ€“Carbon Macroporous Hybrid Catalyst for Enhanced Hydrogen Generation. Advanced Energy Materials, 2019, 9, 1802553.	10.2	159
52	Rapid low-temperature synthesis of hollow CuS0.55 nanoparticles for efficient electrocatalytic water oxidation. Chemical Engineering Science, 2019, 195, 665-670.	1.9	28
53	Heterogeneous interface engineered atomic configuration on ultrathin Ni(OH)2/Ni3S2 nanoforests for efficient water splitting. Applied Catalysis B: Environmental, 2019, 242, 60-66.	10.8	332
54	In-situ growth of ultrathin MoS2 nanosheets on sponge-like carbon nanospheres for lithium-ion batteries. Science China Materials, 2018, 61, 1049-1056.	3.5	20

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55	Surface-engineering of layered LiNi 0.815 Co 0.15 Al 0.035 O 2 cathode material for high-energy and stable Li-ion batteries. Journal of Energy Chemistry, 2018, 27, 559-564.	7.1	38
56	Engineering TiO₂ supported Pt sub-nanoclusters via introducing variable valence Co ion in high-temperature flame for CO oxidation. Nanoscale, 2018, 10, 13384-13392.	2.8	38
57	Fluxing template-assisted synthesis of sponge-like Fe2O3 microspheres toward efficient catalysis for CO oxidation. Applied Surface Science, 2018, 444, 763-771.	3.1	7
58	Multi-shelled LiMn1.95Co0.05O4 cages with a tunable Mn oxidation state for ultra-high lithium storage. New Journal of Chemistry, 2018, 42, 3953-3960.	1.4	3
59	Nanospaceâ€confined synthesis of coconutâ€like SnS/C nanospheres for highâ€rate and stable lithiumâ€ion batteries. AICHE Journal, 2018, 64, 1965-1974.	1.8	45
60	Interface engineering of few-layered MoS2 nanosheets with ultrafine TiO2 nanoparticles for ultrastable Li-ion batteries. Chemical Engineering Journal, 2018, 345, 320-326.	6.6	51
61	Modulating the Volmer Step by MOF Derivatives Assembled with Heterogeneous Ni₂P-CoP Nanocrystals in Alkaline Hydrogen Evolution Reaction. Journal of the Electrochemical Society, 2018, 165, F1286-F1291.	1.3	13
62	L1₂ Atomic Ordered Substrate Enhanced Pt-Skin Cu₃Pt Catalyst for Efficient Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2018, 10, 38015-38023.	4.0	28
63	Litchi-peel-like hierarchical hollow copper-ceria microspheres: aerosol-assisted synthesis and high activity and stability for catalytic CO oxidation. Nanoscale, 2018, 10, 22775-22786.	2.8	29
64	Construction of Nanoreactors Combining Two-Dimensional Hexagonal Boron Nitride (h-BN) Coating with Pt/Al₂O₃ Catalyst toward Efficient Catalysis for CO Oxidation. Industrial & Engineering Chemistry Research, 2018, 57, 13353-13361.	1.8	13
65	Mo-Triggered amorphous Ni₃S₂ nanosheets as efficient and durable electrocatalysts for water splitting. Materials Chemistry Frontiers, 2018, 2, 1462-1466.	3.2	43
66	2D Nanospace Confined Synthesis of Pseudocapacitanceâ€Dominated MoS₂â€inâ€Ti₃C₂ Superstructure for Ultrafast and Stable Li/Naâ€Ion Batteries. Advanced Functional Materials, 2018, 28, 1804306.	7.8	194
67	Constructing Li₃VO₄ nanoparticles anchored on crumpled reduced graphene oxide for high-power lithium-ion batteries. New Journal of Chemistry, 2018, 42, 13241-13248.	1.4	19
68	Synthesis and assembly of three-dimensional MoS2/rGO nanovesicles for high-performance lithium storage. Chemical Engineering Journal, 2018, 350, 1066-1072.	6.6	31
69	Integrated Ni-P-S nanosheets array as superior electrocatalysts for hydrogen generation. Green Energy and Environment, 2017, 2, 112-118.	4.7	33
70	3D Ordered Macroporous MoS₂@C Nanostructure for Flexible Liâ€Ion Batteries. Advanced Materials, 2017, 29, 1603020.	11.1	350
71	2D MoS₂/polyaniline heterostructures with enlarged interlayer spacing for superior lithium and sodium storage. Journal of Materials Chemistry A, 2017, 5, 5383-5389.	5.2	102
72	Moâ€Based Ultrasmall Nanoparticles on Hierarchical Carbon Nanosheets for Superior Lithium Ion Storage and Hydrogen Generation Catalysis. Advanced Energy Materials, 2017, 7, 1602782.	10.2	123

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73	Interface-engineered MoS2/C nanosheet heterostructure arrays for ultra-stable sodium-ion batteries. Chemical Engineering Science, 2017, 174, 104-111.	1.9	60
74	Engineering the outermost layers of TiO₂ nanoparticles using in situ Mg doping in a flame aerosol reactor. AIChE Journal, 2017, 63, 870-880.	1.8	21
75	Homologous V₂O₃/C box-in-box and V₂O₅ box for lithium-ion full cells. Journal of Materials Chemistry A, 2016, 4, 12030-12035.	5.2	39
76	Confined Synthesis of FeS₂ Nanoparticles Encapsulated in Carbon Nanotube Hybrids for Ultrastable Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2016, 4, 4251-4255.	3.2	126
77	Salt-Templating Protocol To Realize Few-Layered Ultrasmall MoS₂ Nanosheets Inlayed into Carbon Frameworks for Superior Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2016, 4, 1148-1153.	3.2	39
78	Aerosol construction of multi-shelled LiMn₂O₄hollow microspheres as a cathode in lithium ion batteries. New Journal of Chemistry, 2016, 40, 1839-1844.	1.4	19
79	Self-Volatilization Approach to Mesoporous Carbon Nanotube/Silver Nanoparticle Hybrids: The Role of Silver in Boosting Li Ion Storage. ACS Nano, 2016, 10, 1648-1654.	7.3	56
80	Batteries: 2D Monolayer MoS₂â€“Carbon Interoverlapped Superstructure: Engineering Ideal Atomic Interface for Lithium Ion Storage (Adv. Mater. 24/2015). Advanced Materials, 2015, 27, 3582-3582.	11.1	6
81	Faceâ€toâ€Face Contact and Openâ€Void Coinvolved Si/C Nanohybrids Lithiumâ€Ion Battery Anodes with Extremely Long Cycle Life. Advanced Functional Materials, 2015, 25, 5395-5401.	7.8	85
82	2D Monolayer MoS₂â€“Carbon Interoverlapped Superstructure: Engineering Ideal Atomic Interface for Lithium Ion Storage. Advanced Materials, 2015, 27, 3687-3695.	11.1	504
83	Macro-mesoporous TiO₂ Microspheres for Highly Efficient Dye-Sensitized Solar Cells. Industrial & Engineering Chemistry Research, 2015, 54, 6692-6697.	1.8	14
84	Multifunctional Janus Hematiteâ€“Silica Nanoparticles: Mimicking Peroxidase-Like Activity and Sensitive Colorimetric Detection of Glucose. ACS Applied Materials & Interfaces, 2015, 7, 15395-15402.	4.0	178
85	One-step synthesis of SnO_x nanocrystalline aggregates encapsulated by amorphous TiO₂ as an anode in Li-ion battery. Journal of Materials Chemistry A, 2015, 3, 9982-9988.	5.2	36
86	Synergistic Enhancement Effect of Al Doping and Highly Active Facets of LiMn₂O₄ Cathode Materials for Lithium-Ion Batteries. Industrial & Engineering Chemistry Research, 2015, 54, 3800-3805.	1.8	51
87	Ultrafine V₂O₃ Nanowire Embedded in Carbon Hybrids with Enhanced Lithium Storage Capability. Industrial & Engineering Chemistry Research, 2015, 54, 2960-2965.	1.8	54
88	Sn@Ni₃Sn₄embedded nanocable-like carbon hybrids for stable lithium-ion batteries. Chemical Communications, 2015, 51, 16373-16376.	2.2	19
89	Improved photoelectric conversion efficiency from titanium oxide-coupled tin oxide nanoparticles formed in flame. Journal of Power Sources, 2014, 268, 922-927.	4.0	18
90	Graphene supported mesoporous single crystal silicon on Cu foam as a stable lithium-ion battery anode. Journal of Materials Chemistry A, 2014, 2, 16360-16364.	5.2	36

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91	Self-assembling few-layer MoS₂ nanosheets on a CNT backbone for high-rate and long-life lithium-ion batteries. RSC Advances, 2014, 4, 40368-40372.	1.7	35
92	Highly compressible magnetic liquid marbles assembled from hydrophobic magnetic chain-like nanoparticles. RSC Advances, 2014, 4, 3162-3164.	1.7	20
93	Mesoporous single crystals Li₄Ti₅O₁₂ grown on rGO as high-rate anode materials for lithium-ion batteries. Chemical Communications, 2014, 50, 8856-8859.	2.2	73
94	SnO2 nanorod@TiO2 hybrid material for dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 8266-8272.	5.2	40
95	Continuous flame synthesis of near surface nitrogen doped TiO2 for dye-sensitized solar cells. Chemical Engineering Journal, 2014, 258, 163-170.	6.6	26
96	Mesoporous single-crystalline V₂O₅nanorods assembled into hollow microspheres as cathode materials for high-rate and long-life lithium-ion batteries. Chemical Communications, 2014, 50, 13362-13365.	2.2	46
97	Nanostructured Ternary Nanocomposite of rGO/CNTs/MnO₂ for High-Rate Supercapacitors. ACS Sustainable Chemistry and Engineering, 2014, 2, 70-74.	3.2	102
98	Double-faced Î³-Fe2O3		SiO2 nanohybrids: flame synthesis, in situ selective modification and highly interfacial activity. Nanoscale, 2013, 5, 5360.	2.8	28
99	Hydrothermal synthesis of hollow Mn2O3 nanocones as anode material for Li-ion batteries. RSC Advances, 2013, 3, 19778.	1.7	58
100	Phase-segregation induced growth of coreâ€“shell Î±-Fe2O3/SnO2 heterostructures for lithium-ion battery. CrystEngComm, 2013, 15, 6715.	1.3	27
101	In situ Au-catalyzed fabrication of branch-type SnO2 nanowires by a continuous gas-phase route for dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 13814.	5.2	16
102	Construction of coreâ€“shell Fe2O3@SnO2 nanohybrids for gas sensors by a simple flame-assisted spray process. RSC Advances, 2013, 3, 22373.	1.7	21
103	Scalable Preparation of Ultrathin Silica-Coated Ag Nanoparticles for SERS Application. ACS Applied Materials & Interfaces, 2013, 5, 10643-10649.	4.0	41
104	Mixed Solvents Assisted Flame Spray Pyrolysis Synthesis of TiO₂ Hierarchically Porous Hollow Spheres for Dye-Sensitized Solar Cells. Industrial & Engineering Chemistry Research, 2013, 52, 11029-11035.	1.8	32
105	Stable Core Shell Co₃Fe₇â€“CoFe₂O₄ Nanoparticles Synthesized via Flame Spray Pyrolysis Approach. Industrial & Engineering Chemistry Research, 2012, 51, 11157-11162.	1.8	35
106	Nanomaterials synthesized by gas combustion flames: Morphology and structure. Particuology, 2010, 8, 556-562.	2.0	21
107	Flame Synthesis of Tin Oxide Nanorods: A Continuous and Scalable Approach. Journal of Physical Chemistry C, 2010, 114, 5867-5870.	1.5	26
108	Self-Cleaning Films with High Transparency Based on TiO₂ Nanoparticles Synthesized via Flame Combustion. Industrial & Engineering Chemistry Research, 2010, 49, 3654-3662.	1.8	15

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109	Flame Synthesis of Ball-in-Shell Structured TiO2 Nanospheres. Industrial & Engineering Chemistry Research, 2009, 48, 735-739.	1.8	35