Yuan Wang

List of Publications by Year
in descending order

92 papers	5,703 citations	76031 42 h-index	93651 72 g-index
95 all docs	95 docs citations	95 times ranked	6338 citing authors

#	Article	IF	Citations
1	Self-driven Ru-modified NiFe MOF nanosheet as multifunctional electrocatalyst for boosting water and urea electrolysis. Journal of Colloid and Interface Science, 2022, 605, 779-789.	5.0	63
2	Recent advances of metal telluride anodes for high-performance lithium/sodiumâ€“ion batteries. Materials Horizons, 2022, 9, 524-546.	6.4	32
3	Surfaceâ€Structured Cocatalyst Foils Unraveling a Pathway to Highâ€Performance Solar Water Splitting. Advanced Energy Materials, 2022, 12, 2102752.	10.2	11
4	Unconventional direct synthesis of Ni₃N/Ni with N-vacancies for efficient and stable hydrogen evolution. Energy and Environmental Science, 2022, 15, 185-195.	15.6	44
5	Electronic Structure Engineering of Singleâ€Atom Ru Sites via Coâ€“N4 Sites for Bifunctional pHâ€Universal Water Splitting. Advanced Materials, 2022, 34, e2110103.	11.1	199
6	A facile approach to tailor electrocatalytic properties of MnO2 through tuning phase transition, surface morphology and band structure. Chemical Engineering Journal, 2022, 438, 135561.	6.6	21
7	Recent advances of Li7La3Zr2O12-based solid-state lithium batteries towards high energy density. Energy Storage Materials, 2022, 49, 299-338.	9.5	30
8	Rhodium promoted heteropolyacid catalysts for low temperature methanol carbonylation. Catalysis Science and Technology, 2022, 12, 3886-3897.	2.1	1
9	Oxide-based cathode materials for rechargeable zinc ion batteries: Progresses and challenges. Journal of Energy Chemistry, 2021, 57, 516-542.	7.1	48
10	One-step hydrothermal synthesis of telluride molybdenum/reduced graphene oxide with Schottky barrier for fabricating label-free photoelectrochemical profenofos aptasensor. Chemical Engineering Journal, 2021, 407, 127213.	6.6	33
11	Nanoscale niobium oxides anode for electrochemical lithium and sodium storage: a review of recent improvements. Journal of Nanostructure in Chemistry, 2021, 11, 33-68.	5.3	25
12	Defect engineering of oxide perovskites for catalysis and energy storage: synthesis of chemistry and materials science. Chemical Society Reviews, 2021, 50, 10116-10211.	18.7	140
13	Highly catalytically active CeO_{2â^'x}-based heterojunction nanostructures with mixed micro/meso-porous architectures. Nanoscale, 2021, 13, 6764-6771.	2.8	16
14	Engineering the Activity and Stability of MOFâ€Nanocomposites for Efficient Water Oxidation. Advanced Energy Materials, 2021, 11, 2003759.	10.2	108
15	Oxygen Evolution Reaction: Engineering the Activity and Stability of MOFâ€Nanocomposites for Efficient Water Oxidation (Adv. Energy Mater. 16/2021). Advanced Energy Materials, 2021, 11, 2170063.	10.2	3
16	In Situ Reconstruction of Vâ€Doped Ni₂P Preâ€Catalysts with Tunable Electronic Structures for Water Oxidation. Advanced Functional Materials, 2021, 31, 2100614.	7.8	129
17	Nanoscale Phase Engineering in Two-Dimensional Niobium Pentoxide Anodes toward Excellent Electrochemical Lithium Storage. ACS Applied Energy Materials, 2021, 4, 4551-4560.	2.5	15
18	Direct Solar Hydrogen Generation at 20% Efficiency Using Lowâ€Cost Materials. Advanced Energy Materials, 2021, 11, 2101053.	10.2	35

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19	Nitrogen Vacancy Induced Coordinative Reconstruction of Singleâ€Atom Ni Catalyst for Efficient Electrochemical CO₂ Reduction. Advanced Functional Materials, 2021, 31, 2107072.	7.8	89
20	Impact of Surface Defects on LaNiO₃ Perovskite Electrocatalysts for the Oxygen Evolution Reaction. Chemistry - A European Journal, 2021, 27, 14418-14426.	1.7	19
21	Target Screening of Hydroxylated and Nitrated Polycyclic Aromatic Hydrocarbons in Surface Water Using Orbitrap Highâ€"Resolution Mass Spectrometry in a Lake in Hebei, China. Separations, 2021, 8, 247.	1.1	2
22	Shock Exfoliation of Graphene Fluoride in Microwave. Small, 2020, 16, e1903397.	5.2	20
23	Photocatalytic Degradation of Dye Pollutant Over FeTPP/NaY Zeolite Nanocomposite. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 1621-1628.	1.9	11
24	Sprayâ€flame synthesis of La(Fe, Co)O₃ nanoâ€perovskites from metal nitrates. AICHE Journal, 2020, 66, e16748.	1.8	41
25	Interfacial Engineering FeOOH/CoO Nanoneedle Array for Efficient Overall Water Splitting Driven by Solar Energy. Chemistry - A European Journal, 2020, 26, 4120-4127.	1.7	24
26	Organosiloxane tunability in mesoporous organosilica and punctuated Pd nanoparticles growth; theory and experiment. Microporous and Mesoporous Materials, 2020, 293, 109832.	2.2	59
27	Catalytic reduction of nitrogen to produce ammonia by bismuth-based catalysts: state of the art and future prospects. Materials Horizons, 2020, 7, 1014-1029.	6.4	134
28	2-Methylimidazole directed ambient synthesis of zinc-cobalt LDH nanosheets for efficient oxygen evolution reaction. Journal of Colloid and Interface Science, 2020, 565, 351-359.	5.0	34
29	Graphitic carbon nitride with different dimensionalities for energy and environmental applications. Nano Research, 2020, 13, 18-37.	5.8	214
30	Design and operando/in situ characterization of preciousâ€metalâ€free electrocatalysts for alkaline water splitting. , 2020, 2, 582-613.		105
31	Tuning the surface energy density of non-stoichiometric LaCoO3 perovskite for enhanced water oxidation. Journal of Power Sources, 2020, 478, 228748.	4.0	33
32	Defective Indium/Indium Oxide Heterostructures for Highly Selective Carbon Dioxide Electrocatalysis. Inorganic Chemistry, 2020, 59, 12437-12444.	1.9	40
33	The ï£¿NH x Group Induced Formation of 3D Î±â€Co(OH) 2 Curly Nanosheet Aggregates as Efficient Oxygen Evolution Electrocatalysts. Small, 2020, 16, 2001973.	5.2	22
34	Vertical Growth of Porous Perovskite Nanoarrays on Nickel Foam for Efficient Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2020, 8, 4863-4870.	3.2	38
35	Nickel induced electronic structural regulation of cobalt hydroxide for enhanced water oxidation. Journal of Materials Chemistry A, 2020, 8, 6699-6708.	5.2	29
36	Engineering Surface Structure and Defect Chemistry of Nanoscale Cubic Co₃O₄ Crystallites for Enhanced Lithium and Sodium Storage. ACS Applied Nano Materials, 2020, 3, 3892-3903.	2.4	32

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37	Cu, Mg and Co effect on nickel-ceria supported catalysts for ethanol steam reforming reaction. International Journal of Hydrogen Energy, 2020, 45, 21512-21522.	3.8	40
38	Microwave-Induced Plasma Synthesis of Defect-Rich, Highly Ordered Porous Phosphorus-Doped Cobalt Oxides for Overall Water Electrolysis. Journal of Physical Chemistry C, 2020, 124, 9971-9978.	1.5	26
39	Boosting CO₂ adsorption and selectivity in metalâ€“organic frameworks of MIL-96(Al) via second metal Ca coordination. RSC Advances, 2020, 10, 8130-8139.	1.7	36
40	Assembly of cerium-based coordination polymer into variant polycrystalline 2Dâ€“3D CeO2â^'x nanostructures. Journal of Materials Chemistry A, 2020, 8, 4753-4763.	5.2	20
41	Inducing synergy in bimetallic RhNi catalysts for CO2 methanation by galvanic replacement. Applied Catalysis B: Environmental, 2020, 277, 119029.	10.8	41
42	Tuning the Selectivity of LaNiO3 Perovskites for CO2 Hydrogenation through Potassium Substitution. Catalysts, 2020, 10, 409.	1.6	20
43	Common Pitfalls of Reporting Electrocatalysts for Water Splitting. Chemical Research in Chinese Universities, 2020, 36, 360-365.	1.3	12
44	Characteristics and Health Risk Assessment of Semi-Volatile Organic Contaminants in Rural Pond Water of Hebei Province. International Journal of Environmental Research and Public Health, 2019, 16, 4481.	1.2	6
45	Effective and selective adsorption of phosphate from aqueous solution via trivalent-metals-based amino-MIL-101 MOFs. Chemical Engineering Journal, 2019, 357, 159-168.	6.6	245
46	Ordered meso- and macroporous perovskite oxide catalysts for emerging applications. Chemical Communications, 2018, 54, 6484-6502.	2.2	104
47	In Situ Exsolution of Bimetallic Rhâ€“Ni Nanoalloys: a Highly Efficient Catalyst for CO₂ Methanation. ACS Applied Materials & Interfaces, 2018, 10, 16352-16357.	4.0	89
48	Hierarchically Porous Networkâ€Like Ni/Co₃O₄: Noble Metalâ€Free Catalysts for Carbon Dioxide Methanation. Advanced Sustainable Systems, 2018, 2, 1700119.	2.7	30
49	One-pot synthesis of S-doped Fe2O3/C magnetic nanocomposite as an adsorbent for anionic dye removal: equilibrium and kinetic studies. Journal of Nanostructure in Chemistry, 2018, 8, 23-32.	5.3	35
50	Mesoporous CoO-supported palladium nanocatalysts with high performance for o-xylene combustion. Catalysis Science and Technology, 2018, 8, 806-816.	2.1	47
51	NH2-coordinately immobilized tris(8-quinolinolato)iron onto the silica coated magnetite nanoparticle: Fe3O4@SiO2-FeQ3 as a selective Fenton-like catalyst for clean oxidation of sulfides. Journal of Colloid and Interface Science, 2018, 511, 447-455.	5.0	63
52	Correlating morphology and doping effects with the carbon monoxide catalytic activity of Zn doped CeO2 nanocrystals. Catalysis Science and Technology, 2018, 8, 134-138.	2.1	19
53	The evaluation of autothermal methane reforming for hydrogen production over Ni/CeO2 catalysts. International Journal of Hydrogen Energy, 2018, 43, 22340-22346.	3.8	37
54	Single Atom and Nanoclustered Pt Catalysts for Selective CO₂ Reduction. ACS Applied Energy Materials, 2018, 1, 6781-6789.	2.5	104

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55	Simultaneous Determination of 32 Polycyclic Aromatic Hydrocarbon Derivatives and Parent PAHs Using Gas Chromatographyâ€“Mass Spectrometry: Application in Groundwater Screening. Bulletin of Environmental Contamination and Toxicology, 2018, 101, 664-671.	1.3	8
56	Highly Efficient and Selective Cu/MnO_x Catalysts for Carbon Dioxide Reduction. ACS Applied Energy Materials, 2018, 1, 3035-3041.	2.5	13
57	Highly Selective Reduction of Carbon Dioxide to Methane on Novel Mesoporous Rh Catalysts. ACS Applied Materials & Interfaces, 2018, 10, 24963-24968.	4.0	45
58	Development of a mobile groundwater desalination system for communities in rural India. Water Research, 2018, 144, 642-655.	5.3	22
59	Self-assembly of flower-like LaNiAlO3-supported nickel catalysts for CO methanation. Catalysis Communications, 2018, 115, 40-44.	1.6	6
60	Thermocatalytic conversion of methane to highly pure hydrogen over Niâ€“Cu/MgOÂ·Al2O3 catalysts: Influence of noble metals (Pt and Pd) on the catalytic activity and stability. Energy Conversion and Management, 2018, 166, 268-280.	4.4	50
61	Review of metal (hydr)oxide and other adsorptive materials for phosphate removal from water. Journal of Environmental Chemical Engineering, 2018, 6, 5269-5286.	3.3	189
62	HMTA-assisted formation of hierarchical Co-based materials built by low-dimensional substructures as water oxidation electrocatalysts. CrystEngComm, 2018, 20, 5249-5255.	1.3	12
63	Templateâ€free Scalable Synthesis of Floweâ€like Co_{3â€x}Mn_xO₄ Spinel Catalysts for Toluene Oxidation. ChemCatChem, 2018, 10, 3429-3434.	1.8	125
64	Low-temperature synthesis of mesoporous nanocrystalline magnesium aluminate (MgAl2O4) spinel with high surface area using a novel modified sol-gel method. Advanced Powder Technology, 2017, 28, 1249-1257.	2.0	82
65	Recent advances in ordered meso/macroporous metal oxides for heterogeneous catalysis: a review. Journal of Materials Chemistry A, 2017, 5, 8825-8846.	5.2	263
66	The controlled disassembly of mesostructured perovskites as an avenue to fabricating high performance nanohybrid catalysts. Nature Communications, 2017, 8, 15553.	5.8	65
67	Design and synthesis of CeO2 nanowire/MnO2 nanosheet heterogeneous structure for enhanced catalytic properties. Materials Today Communications, 2017, 11, 103-111.	0.9	36
68	Effect of substitution by Ni in MgAl2O4 spinel for biogas dry reforming. International Journal of Hydrogen Energy, 2017, 42, 24159-24168.	3.8	67
69	Shear stress in a pressure-driven membrane system and its impact on membrane fouling from a hydrodynamic condition perspective: a review. Journal of Chemical Technology and Biotechnology, 2017, 92, 463-478.	1.6	42
70	Porous Perovskite Materials in Catalysis. Synthesis and Catalysis Open Access, 2017, 02, .	0.4	0
71	High Performance Auâ€“Pd Supported on 3D Hybrid Strontium-Substituted Lanthanum Manganite Perovskite Catalyst for Methane Combustion. ACS Catalysis, 2016, 6, 6935-6947.	5.5	158
72	Biogas Reforming for Hydrogen Production: A New Path to Highâ€Performance Nickel Catalysts Supported on Magnesium Aluminate Spinel. ChemCatChem, 2016, 8, 3600-3610.	1.8	29

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73	Meso-Molding Three-Dimensional Macroporous Perovskites: A New Approach to Generate High-Performance Nanohybrid Catalysts. ACS Applied Materials & Interfaces, 2016, 8, 2457-2463.	4.0	64
74	Effect of ferric and ferrous iron addition on phosphorus removal and fouling in submerged membrane bioreactors. Water Research, 2015, 69, 210-222.	5.3	105
75	Iron and phosphorus speciation in Fe-conditioned membrane bioreactor activated sludge. Water Research, 2015, 76, 213-226.	5.3	53
76	Numerical simulation of bubble induced shear inÂmembrane bioreactors: Effects of mixed liquor rheology and membrane configuration. Water Research, 2015, 75, 131-145.	5.3	52
77	Removal of phosphorus from wastewaters using ferrous salts â€“ A pilot scale membrane bioreactor study. Water Research, 2014, 57, 140-150.	5.3	54
78	Three-Dimensionally Ordered Macroporous La_{0.6}Sr_{0.4}MnO₃ Supported Ag Nanoparticles for the Combustion of Methane. Journal of Physical Chemistry C, 2014, 118, 14913-14928.	1.5	89
79	Controlled Generation of Uniform Spherical LaMnO₃, LaCoO₃, Mn₂O₃, and Co₃O₄ Nanoparticles and Their High Catalytic Performance for Carbon Monoxide and Toluene Oxidation. Inorganic Chemistry, 2013, 52, 8665-8676.	1.9	124
80	Three-dimensionally ordered macroporous InVO4: Fabrication and excellent visible-light-driven photocatalytic performance for methylene blue degradation. Chemical Engineering Journal, 2013, 226, 87-94.	6.6	73
81	Porous FeOx/BiVO4â€“Î´S0.08: Highly efficient photocatalysts for the degradation of Methylene Blue under visible-light illumination. Journal of Environmental Sciences, 2013, 25, 2138-2149.	3.2	25
82	Three-dimensionally ordered macroporous La0.6Sr0.4MnO3 with high surface areas: Active catalysts for the combustion of methane. Journal of Catalysis, 2013, 307, 327-339.	3.1	206
83	Dual-templating synthesis of three-dimensionally ordered macroporous La0.6Sr0.4MnO3-supported Ag nanoparticles: controllable alignments and super performance for the catalytic combustion of methane. Chemical Communications, 2013, 49, 10748.	2.2	49
84	Au/3DOM LaCoO3: High-performance catalysts for the oxidation of carbon monoxide and toluene. Chemical Engineering Journal, 2013, 228, 965-975.	6.6	114
85	Au/3DOM La0.6Sr0.4MnO3: Highly active nanocatalysts for the oxidation of carbon monoxide and toluene. Journal of Catalysis, 2013, 305, 146-153.	3.1	146
86	Mesoporous LaFeO3 catalysts for the oxidation of toluene and carbon monoxide. Chinese Journal of Catalysis, 2013, 34, 2223-2229.	6.9	48
87	3DOM InVO4-supported chromia with good performance for the visible-light-driven photodegradation of rhodamine B. Solid State Sciences, 2013, 24, 62-70.	1.5	48
88	In situ PMMA-templating preparation and excellent catalytic performance of Co3O4/3DOM La0.6Sr0.4CoO3 for toluene combustion. Applied Catalysis A: General, 2013, 458, 11-20.	2.2	67
89	PMMA-templating generation and high catalytic performance of chain-like ordered macroporous LaMnO3 supported gold nanocatalysts for the oxidation of carbon monoxide and toluene. Applied Catalysis B: Environmental, 2013, 140-141, 317-326.	10.8	74
90	In situ poly(methyl methacrylate)-templating generation and excellent catalytic performance of MnOx/3DOM LaMnO3 for the combustion of toluene and methanol. Applied Catalysis B: Environmental, 2013, 140-141, 493-505.	10.8	130

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91	Three-dimensionally ordered macroporous Eu0.6Sr0.4FeO3 supported cobalt oxides: Highly active nanocatalysts for the combustion of toluene. Applied Catalysis B: Environmental, 2013, 129, 539-548.	10.8	47
92	A comparative study of bulk and 3DOM-structured Co3O4, Eu0.6Sr0.4FeO3, and Co3O4/Eu0.6Sr0.4FeO3: Preparation, characterization, and catalytic activities for toluene combustion. Applied Catalysis A: General, 2012, 447-448, 41-48.	2.2	47