

Linxi Hou

List of Publications by Year in descending order

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102
papers

3,996
citations

109264

35
h-index

138417

58
g-index

104
all docs

104
docs citations

104
times ranked

4377
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly tough supramolecular double network hydrogel electrolytes for an artificial flexible and low-temperature tolerant sensor. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6776-6784.	5.2	220
2	Self-powered integrated system of a strain sensor and flexible all-solid-state supercapacitor by using a high performance ionic organohydrogel. <i>Materials Horizons</i> , 2020, 7, 2085-2096.	6.4	187
3	Hierarchical Porous Co ₉ S ₈ /Nitrogen-Doped Carbon@MoS ₂ Polyhedrons as pH Universal Electrocatalysts for Highly Efficient Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28394-28405.	4.0	179
4	Template synthesis of CoSe ₂ /Co ₃ Se ₄ nanotubes: tuning of their crystal structures for photovoltaics and hydrogen evolution in alkaline medium. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4513-4526.	5.2	165
5	A mussel-inspired supramolecular hydrogel with robust tissue anchor for rapid hemostasis of arterial and visceral bleedings. <i>Bioactive Materials</i> , 2021, 6, 2829-2840.	8.6	152
6	Multifunctional Poly(vinyl alcohol) Nanocomposite Organohydrogel for Flexible Strain and Temperature Sensor. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40815-40827.	4.0	141
7	Preparation and characterization of poly(vinyl alcohol)/sodium alginate hydrogel with high toughness and electric conductivity. <i>Carbohydrate Polymers</i> , 2018, 186, 377-383.	5.1	135
8	Morphology-Tuned Synthesis of Nickel Cobalt Selenides as Highly Efficient Pt-Free Counter Electrode Catalysts for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29486-29495.	4.0	117
9	Metal-organic framework-derived Ni-Co alloy@carbon microspheres as high-performance counter electrode catalysts for dye-sensitized solar cells. <i>Chemical Engineering Journal</i> , 2018, 334, 419-431.	6.6	111
10	Stimuli-Responsive Nanoparticles for Controlled Drug Delivery in Synergistic Cancer Immunotherapy. <i>Advanced Science</i> , 2022, 9, e2103444.	5.6	102
11	Highly tough, freezing-tolerant, healable and thermoplastic starch/poly(vinyl alcohol) organohydrogels for flexible electronic devices. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18406-18420.	5.2	91
12	Low-cost and highly efficient CoMoS ₄ /NiMoS ₄ -based electrocatalysts for hydrogen evolution reactions over a wide pH range. <i>Electrochimica Acta</i> , 2016, 213, 236-243.	2.6	82
13	Nickel Cobalt Sulfide Double-Shelled Hollow Nanospheres as Superior Bifunctional Electrocatalysts for Photovoltaics and Alkaline Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9379-9389.	4.0	80
14	Indolo[3,2-b]carbazole-based multi-donor-acceptor type organic dyes for highly efficient dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016, 319, 39-47.	4.0	76
15	NiCo-Layered Double Hydroxide-Derived B-Doped CoP/Ni ₂ P Hollow Nanoprisms as High-Efficiency Electrocatalysts for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 9932-9941.	4.0	72
16	Shape-controllable syntheses of ternary Ni-Co-Se alloy hollow microspheres as highly efficient catalytic materials for dye-sensitized solar cells. <i>Chemical Engineering Journal</i> , 2017, 315, 562-572.	6.6	69
17	Co-Fe-MoS hollow nanoboxes as high-performance counter electrode catalysts for Pt-free dye-sensitized solar cells. <i>Chemical Engineering Journal</i> , 2018, 343, 86-94.	6.6	68
18	High-performance and flexible solid-state supercapacitors based on high toughness and thermoplastic poly(vinyl alcohol)/NaCl/glycerol supramolecular gel polymer electrolyte. <i>Electrochimica Acta</i> , 2019, 324, 134874.	2.6	68

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19	Facile preparation and characterization of poly(vinyl alcohol)-NaCl-glycerol supramolecular hydrogel electrolyte. <i>European Polymer Journal</i> , 2018, 106, 206-213.	2.6	67
20	Amphiphilic Gemini Iridium(III) Complex as a Mitochondria-Targeted Theranostic Agent for Tumor Imaging and Photodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15276-15289.	4.0	66
21	Studies of the plasticizing effect of different hydrophilic inorganic salts on starch/poly (vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 55	3.5	55
22	An Antifreezing, Tough, Rehydratable, and Thermoplastic Poly(vinyl alcohol)/Sodium Alginate/Poly(ethylene glycol) Organohydrogel Electrolyte for Flexible Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9833-9845.	3.2	54
23	A coumarin-based fluorescent probe for hypochlorite ion detection in environmental water samples and living cells. <i>Talanta</i> , 2019, 202, 303-307.	2.9	52
24	Highly flexible and adhesive poly(vinyl alcohol)/poly(acrylic amide-co-2-acrylamido-2-methylpropane) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 55 <i>Engineering Journal</i> , 2021, 425, 131505.	6.6	52
25	Preparation and characterization of quaternized poly(vinyl alcohol)/chitosan/MoS ₂ composite anion exchange membranes with high selectivity. <i>Carbohydrate Polymers</i> , 2018, 180, 96-103.	5.1	50
26	Stepwise synthesis of CoS ₂ @CoS ₂ yolk-shell nanocages with much enhanced electrocatalytic performances both in solar cells and hydrogen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12056-12065.	5.2	49
27	Facile preparation of N-O codoped hierarchically porous carbon from alginate particles for high performance supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2020, 563, 414-425.	5.0	49
28	Cu-Ni-CoSex quaternary porous nanocubes as enhanced Pt-free electrocatalysts for highly efficient dye-sensitized solar cells and hydrogen evolution in alkaline medium. <i>Chemical Engineering Journal</i> , 2019, 357, 11-20.	6.6	47
29	Preparation and characterization of novel magnetic Fe ₃ O ₄ /chitosan/Al(OH) ₃ beads and its adsorption for fluoride. <i>International Journal of Biological Macromolecules</i> , 2018, 114, 256-262.	3.6	46
30	Cobalt iron selenide/sulfide porous nanocubes as high-performance electrocatalysts for efficient dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2017, 369, 35-41.	4.0	45
31	Preparation and characterization of hybrid double network chitosan/poly(acrylic amide-acrylic acid) high toughness hydrogel through Al ³⁺ crosslinking. <i>Carbohydrate Polymers</i> , 2017, 173, 701-706.	5.1	43
32	Humidity-Responsive Gold Aerogel for Real-Time Monitoring of Human Breath. <i>Langmuir</i> , 2018, 34, 4908-4913.	1.6	39
33	Facile preparation of nitrogen-doped activated mesoporous carbon aerogel from chitosan for methyl orange adsorption from aqueous solution. <i>Cellulose</i> , 2019, 26, 4515-4527.	2.4	39
34	New efficient organic dyes employing indeno[1,2-b]indole as the donor moiety for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016, 332, 103-110.	4.0	36
35	A facile preparation method for anti-freezing, tough, transparent, conductive and thermoplastic poly(vinyl alcohol)/sodium alginate/glycerol organohydrogel electrolyte. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 2512-2523.	3.6	36
36	Facile preparation and characterization of super tough chitosan/poly(vinyl alcohol) hydrogel with low temperature resistance and anti-swelling property. <i>International Journal of Biological Macromolecules</i> , 2020, 142, 574-582.	3.6	34

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37	Ni-Fe-WSx polynary hollow nanoboxes as promising electrode catalysts for high-efficiency triiodide reduction in dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2021, 851, 156899.	2.8	34
38	The effect of glycerol on properties of chitosan/poly(vinyl alcohol) films with AlCl ₃ ·6H ₂ O aqueous solution as the solvent for chitosan. <i>Carbohydrate Polymers</i> , 2016, 135, 191-198.	5.1	33
39	CoMoSx@Ni-CoMoSx double-shelled cage-in-cage hollow polyhedron as enhanced Pt-free catalytic material for high-efficiency dye-sensitized solar cell. <i>Journal of Power Sources</i> , 2019, 417, 21-28.	4.0	33
40	Efficient carbon dioxide electrolysis with metal nanoparticles loaded La _{0.75} Sr _{0.25} Cr _{0.5} Mn _{0.5} O _{3-δ} cathodes. <i>Journal of Power Sources</i> , 2017, 363, 177-184.	4.0	31
41	Micropore-Forming Gelatin Methacryloyl (GelMA) Bioink Toolbox 2.0: Designable Tunability and Adaptability for 3D Bioprinting Applications. <i>Small</i> , 2022, 18, .	5.2	31
42	Template synthesis of cobalt molybdenum sulfide hollow nanoboxes as enhanced bifunctional Pt-free electrocatalysts for dye-sensitized solar cells and alkaline hydrogen evolution. <i>Electrochimica Acta</i> , 2018, 289, 448-458.	2.6	30
43	A covalent organic framework as a photocatalyst for atom transfer radical polymerization under white light irradiation. <i>Polymer Chemistry</i> , 2021, 12, 183-188.	1.9	30
44	Molecular p-n heterojunction-enhanced visible-light hydrogen evolution over a N-doped TiO ₂ photocatalyst. <i>Catalysis Science and Technology</i> , 2017, 7, 2039-2049.	2.1	27
45	Formation of CoTe ₂ embedded in nitrogen-doped carbon nanotubes-grafted polyhedrons with boosted electrocatalytic properties in dye-sensitized solar cells. <i>Applied Surface Science</i> , 2019, 476, 769-777.	3.1	27
46	Construction of Pt-free electrocatalysts based on hierarchical CoS ₂ /N-doped C@Co-WS ₂ yolk-shell nano-polyhedrons for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2020, 340, 135949.	2.6	27
47	Construction of uniform Co-Sn-X (X = S, Se, Te) nanocages with enhanced photovoltaic and oxygen evolution properties via anion exchange reaction. <i>Nanoscale</i> , 2018, 10, 22012-22024.	2.8	26
48	Co-Ni-MoSx yolk-shell nanospheres as superior Pt-free electrode catalysts for highly efficient dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2019, 412, 568-574.	4.0	26
49	A low-cost and environment friendly chitosan/aluminum hydroxide bead adsorbent for fluoride removal from aqueous solutions. <i>Iranian Polymer Journal (English Edition)</i> , 2018, 27, 253-261.	1.3	24
50	Biofriendly and Regenerable Emotional Monitor from Interfacial Ultrathin 2D PDA/AuNPs Cross-linking Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36259-36269.	4.0	24
51	Facile synthesis of MnO ₂ nanorods grown on porous carbon for supercapacitor with enhanced electrochemical performance. <i>Journal of Colloid and Interface Science</i> , 2019, 540, 466-475.	5.0	23
52	Facile Fabrication of Biochar/Al ₂ O ₃ Adsorbent and Its Application for Fluoride Removal from Aqueous Solution. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 83-89.	1.0	23
53	Visible Light-Regulated Heterogeneous Catalytic PET-RRAFT by High Crystallinity Covalent Organic Framework. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100384.	2.0	23
54	An adhesive, anti-freezing, and environment stable zwitterionic organohydrogel for flexible all-solid-state supercapacitor. <i>Polymer</i> , 2022, 254, 125109.	1.8	22

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55	MOF derived C/Co@C with a "one-way-valve"-like graphitic carbon layer for selective semi-hydrogenation of aromatic alkynes. <i>Carbon</i> , 2020, 160, 64-70.	5.4	21
56	Indeno[1,2- b]indole-based organic dyes with different acceptor groups for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2017, 139, 274-282.	2.0	20
57	Effects of C-Related Dangling Bonds and Functional Groups on the Fluorescent and Electrochemiluminescent Properties of Carbon-Based Dots. <i>Chemistry - A European Journal</i> , 2018, 24, 4250-4254.	1.7	20
58	Distinctive Performance of Gemini Surfactant in the Preparation of Hierarchically Porous Carbons via High-Internal-Phase Emulsion Template. <i>Langmuir</i> , 2018, 34, 12100-12108.	1.6	20
59	Synthesis of CoS ₂ /SnO ₂ @MoS ₂ nanocube heterostructures for achieving enhanced electrocatalytic hydrogen evolution in acidic media. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2660-2668.	3.0	20
60	Perovskite SrFeO ₃ decorated with Ni nanoparticles for high temperature carbon dioxide electrolysis. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 17040-17047.	3.8	19
61	Controlled synthesis of porous nanosheets-assembled peony-like cobalt nickel selenides for triiodide reduction in dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2020, 818, 152817.	2.8	19
62	Syntheses, surface activities and aggregation morphologies of a series of novel itaconic acid based asymmetrical gemini surfactants. <i>Journal of Molecular Liquids</i> , 2019, 290, 111218.	2.3	18
63	A cyclometalated iridium(III) complex-based fluorescence probe for hypochlorite detection and its application by test strips. <i>Analytical Biochemistry</i> , 2019, 566, 27-31.	1.1	17
64	Multipath oxygen-mediated PET-RAFT polymerization by a conjugated organic polymer photocatalyst under red LED irradiation. <i>Polymer Chemistry</i> , 2021, 12, 6998-7004.	1.9	16
65	Oxygen-enriched hierarchical porous carbon supported Co-Ni nanoparticles for promising hybrid supercapacitors via one step pyrolysis of polymerized high internal phase emulsion. <i>Journal of Alloys and Compounds</i> , 2022, 907, 164481.	2.8	16
66	The Effect of glycerol on the crystalline, thermal, and tensile properties of CaCl ₂ -doped starch/PVA films. <i>Polymer Composites</i> , 2016, 37, 3191-3199.	2.3	15
67	Bimetallic-organic Frameworks CoMo-ZIF-67: An Efficient and Stable Catalyst for Selective Oxidation of Alkenes. <i>ChemCatChem</i> , 2021, 13, 416-424.	1.8	15
68	Durable and recyclable conjugated microporous polymer mediated controlled radical polymerization under white LED light irradiation. <i>Polymer Chemistry</i> , 2021, 12, 6714-6723.	1.9	15
69	Visible light-triggered PET-RAFT polymerization by heterogeneous 2D porphyrin-based COF photocatalyst under aqueous condition. <i>European Polymer Journal</i> , 2022, 173, 111306.	2.6	15
70	Tunable electrorheological characteristics and mechanism of a series of graphene-like molybdenum disulfide coated core-shell structured polystyrene microspheres. <i>RSC Advances</i> , 2016, 6, 26096-26103.	1.7	13
71	Binuclear molybdenum Schiff-base complex: An efficient catalyst for the epoxidation of alkenes. <i>Molecular Catalysis</i> , 2019, 475, 110498.	1.0	13
72	Amphiphilic gemini-iridium (III) complex for rapid and selective detection of picric acid in water and intracellular. <i>Talanta</i> , 2020, 208, 120372.	2.9	13

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73	Tuning the pore architectures of hierarchically porous carbons from high internal phase emulsion template by polyaniline-coated CNTs. <i>Colloid and Polymer Science</i> , 2020, 298, 179-191.	1.0	13
74	MoS ₂ /Ni-CoS _x porous nanocubes derived from Ni-Co prussian-blue analogs as enhanced Pt-free electrode catalysts for high-efficiency dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2019, 440, 227121.	4.0	12
75	Co [~] MOF@Cu [~] MOF ₄ Derived Bifunctional Co [~] C@Cu [~] C for One-Pot Production of 1, 4-Diphenyl-1, 3-Butadiene from Phenylacetylene. <i>ChemCatChem</i> , 2020, 12, 6241-6247.	1.8	12
76	Preparation of N-doped porous carbons via high internal phase emulsion template. <i>Progress in Natural Science: Materials International</i> , 2021, 31, 270-278.	1.8	12
77	Photoinduced organocatalyzed controlled radical polymerization feasible over a wide range of wavelengths. <i>Polymer Chemistry</i> , 2022, 13, 527-535.	1.9	12
78	Surface patterning and modification of polyurethane biomaterials using silsesquioxane-gelatin additives for improved endothelial affinity. <i>Science China Chemistry</i> , 2014, 57, 596-604.	4.2	11
79	A water-soluble cyclometalated iridium(III) complex with fluorescent sensing capability for hypochlorite. <i>Dyes and Pigments</i> , 2019, 171, 107715.	2.0	11
80	A novel mitochondria-targeted phosphorescence probe for hypochlorite ions detection in living cells. <i>Talanta</i> , 2020, 209, 120516.	2.9	11
81	Fully- π conjugated covalent organic frameworks as catalyst for photo-induced atom transfer radical polymerization with ppm-level copper concentration under LED irradiation. <i>European Polymer Journal</i> , 2021, 157, 110670.	2.6	11
82	Robust graphene/poly(vinyl alcohol) aerogel for high-flux and high-purity separation of water-in-oil emulsion and its computational fluid dynamic simulation. <i>AIChE Journal</i> , 2022, 68, .	1.8	10
83	Tough and anti-fatigue double network gelatin/polyacrylamide/DMSO/Na ₂ SO ₄ ionic conductive organohydrogel for flexible strain sensor. <i>European Polymer Journal</i> , 2022, 168, 111099.	2.6	10
84	Toughened elastomer/polyhedral oligomeric silsesquioxane (POSS)-intercalated rectorite nanocomposites: Preparation, microstructure, and mechanical properties. <i>Polymer Composites</i> , 2017, 38, E443.	2.3	9
85	Heterogemini surfactant assisted synthesis of monodisperse icosahedral gold nanocrystals and their applications in electrochemical biosensing. <i>RSC Advances</i> , 2016, 6, 31301-31307.	1.7	8
86	Green synthesis of red-emission carbon based dots by microbial fermentation. <i>New Journal of Chemistry</i> , 2018, 42, 8591-8595.	1.4	8
87	Organocatalyzed controlled radical polymerization with alkyl bromide initiator via in situ halogen exchange under thermal condition. <i>Polymer</i> , 2020, 189, 122201.	1.8	7
88	Nitrogen, sulfur co-doped porous carbon via high internal phase emulsion template and its potential application as the electrode of high-performance supercapacitor. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	7
89	Phosphorescent iridium(III) complex for efficient sensing of hypochlorite and imaging in living cells. <i>Analytical Biochemistry</i> , 2020, 592, 113573.	1.1	6
90	<sc>Imine-based</sc> covalent organic framework as photocatalyst for <sc>visible-light-induced</sc> atom transfer radical polymerization. <i>Journal of Polymer Science</i> , 2021, 59, 2036-2044.	2.0	6

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91	A quaternized poly(vinyl alcohol)/chitosan composite alkaline polymer electrolyte: preparation and characterization of the membrane. <i>Iranian Polymer Journal (English Edition)</i> , 2017, 26, 531-539.	1.3	5
92	Synergism Effect of Surfactant and Inorganic Salt on the Properties of Starch/Poly(Vinyl Alcohol) Film. <i>Starch/Staerke</i> , 2018, 70, 1700146.	1.1	5
93	Phase-Controlled Cobalt Phosphide Nanoparticles Coupled with N, P, S Co-Doped Hollow Carbon Polyhedrons as Efficient Catalysts for Both Alkaline and Acidic Hydrogen Evolution. <i>Energy Technology</i> , 2019, 7, 1800757.	1.8	5
94	Efficient Persistent Luminescence Tuning Using a Cyclodextrin Inclusion Complex as Efficient Light Conversion Materials. <i>ACS Omega</i> , 2021, 6, 25585-25593.	1.6	4
95	A sensitive "switch-on" phosphorescent probe for ferrous iron quantification in drug and In vitro imaging of living cells. <i>Talanta</i> , 2020, 217, 121097.	2.9	3
96	Remarkable binuclear Schiff-based complex catalyze the epoxidation of alkenes: effects of substituent group. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5608.	1.7	3
97	Temperature-sensitive poly(N-isopropylacrylamide)-reduced graphene oxide/polysulfone as smart separation membrane: structure and performance. <i>Iranian Polymer Journal (English Edition)</i> , 2018, 27, 951-963.	1.3	2
98	Preparation of fluorescent polystyrene nanoparticles mediated by a multi-functional amphiphilic iridium complex under visible light irradiation in aqueous solution. <i>Polymer Chemistry</i> , 2020, 11, 795-799.	1.9	2
99	Asymmetrical Gemini Surfactants Directed Synthesis Of Hierarchical ZSM-5 Zeolites and Their Immobilization of Molybdenum Complex for the Catalytic Epoxidation of Alkenes. <i>ChemCatChem</i> , 2021, 13, 4442.	1.8	2
100	Influences of nonsolvent on the morphologies and electrochemical properties of carbon nanofibres from electrospun polyacrylonitrile nanofibres. <i>Bulletin of Materials Science</i> , 2018, 41, 1.	0.8	1
101	Epoxy-based composites with enhanced thermal properties through collective effect of different particle size fillers. <i>Polymers and Polymer Composites</i> , 2022, 30, 096739112211066.	1.0	1
102	Synthesis of porous silica materials with tunable morphologies and nanopore sizes using heterogemini surfactants. <i>Micro and Nano Letters</i> , 2018, 13, 725-727.	0.6	0