Yufan Zhang

List of Publications by Year
in descending order

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106 papers	5,351 citations	76326 40 h-index	88630 70 g-index
106 all docs	106 docs citations	106 times ranked	6844 citing authors

#	Article	IF	Citations
1	Facile synthesis of electrospun MFe₂O₄(M = Co, Ni, Cu, Mn) spinel nanofibers with excellent electrocatalytic properties for oxygen evolution and hydrogen peroxide reduction. Nanoscale, 2015, 7, 8920-8930.	5.6	432
2	Metalâ"organic framework composite membranes: Synthesis and separation applications. Chemical Engineering Science, 2015, 135, 232-257.	3.8	208
3	Electrodeposition of nickel oxide and platinum nanoparticles on electrochemically reduced graphene oxide film as a nonenzymatic glucose sensor. Sensors and Actuators B: Chemical, 2014, 192, 261-268.	7.8	198
4	Electrocatalytically active cobalt-based metalâ€"organic framework with incorporated macroporous carbon composite for electrochemical applications. Journal of Materials Chemistry A, 2015, 3, 732-738.	10.3	169
5	Facile synthesis of a Cu-based MOF confined in macroporous carbon hybrid material with enhanced electrocatalytic ability. Chemical Communications, 2013, 49, 6885.	4.1	166
6	Facile synthesis of various highly dispersive CoP nanocrystal embedded carbon matrices as efficient electrocatalysts for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2015, 3, 4255-4265.	10.3	153
7	Fabrication of 2D ordered mesoporous carbon nitride and its use as electrochemical sensing platform for H2O2, nitrobenzene, and NADH detection. Biosensors and Bioelectronics, 2014, 53, 250-256.	10.1	152
8	Natural biomass-derived carbons for electrochemical energy storage. Materials Research Bulletin, 2017, 88, 234-241.	5.2	146
9	Transformation of metal-organic frameworks for molecular sieving membranes. Nature Communications, 2016, 7, 11315.	12.8	140
10	Iron and nitrogen co-doped carbon nanotube@hollow carbon fibers derived from plant biomass as efficient catalysts for the oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 9658-9667.	10.3	131
11	Facile synthesis of ultrafine Co3O4 nanocrystals embedded carbon matrices with specific skeletal structures as efficient non-enzymatic glucose sensors. Analytica Chimica Acta, 2015, 861, 25-35.	5.4	127
12	Sulfur-doped ordered mesoporous carbon with high electrocatalytic activity for oxygen reduction. Electrochimica Acta, 2013, 108, 404-411.	5.2	120
13	Cobalt and nitrogen co-embedded onion-like mesoporous carbon vesicles as efficient catalysts for oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 11672.	10.3	112
14	One-pot ionic liquid-assisted synthesis of highly dispersed PtPd nanoparticles/reduced graphene oxide composites for nonenzymatic glucose detection. Biosensors and Bioelectronics, 2014, 56, 223-230.	10.1	100
15	Facile preparation of Ni nanoparticle embedded on mesoporous carbon nanorods for non-enzymatic glucose detection. Journal of Colloid and Interface Science, 2021, 583, 310-320.	9.4	100
16	Comparative study on the oxygen reduction reaction electrocatalytic activities of iron phthalocyanines supported on reduced graphene oxide, mesoporous carbon vesicle, and ordered mesoporous carbon. Journal of Power Sources, 2014, 264, 114-122.	7.8	92
17	Assembly of MOF Microcapsules with Sizeâ€Selective Permeability on Cell Walls. Angewandte Chemie - International Edition, 2016, 55, 955-959.	13.8	92
18	Green and facile synthesis of an Au nanoparticles@polyoxometalate/ordered mesoporous carbon tri-component nanocomposite and its electrochemical applications. Biosensors and Bioelectronics, 2015, 66, 191-197.	10.1	81

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19	Metalâ€“organic framework channelled graphene composite membranes for H₂/CO₂separation. Journal of Materials Chemistry A, 2016, 4, 18747-18752.	10.3	80
20	Facile synthesis of metal-organic frameworks/ordered mesoporous carbon composites with enhanced electrocatalytic ability for hydrazine. Journal of Colloid and Interface Science, 2018, 512, 127-133.	9.4	80
21	Facile preparation of CoMoO4 nanorods at macroporous carbon hybrid electrocatalyst for non-enzymatic glucose detection. Journal of Colloid and Interface Science, 2020, 560, 1-10.	9.4	78
22	An enzyme-free electrochemical biosensor based on well monodisperse Au nanorods for ultra-sensitive detection of telomerase activity. Biosensors and Bioelectronics, 2020, 148, 111834.	10.1	74
23	Metal organic frameworks/macroporous carbon composites with enhanced stability properties and good electrocatalytic ability for ascorbic acid and hemoglobin. Talanta, 2014, 129, 55-62.	5.5	72
24	Fabrication of amine-functionalized metal-organic frameworks with embedded palladium nanoparticles for highly sensitive electrochemical detection of telomerase activity. Sensors and Actuators B: Chemical, 2019, 278, 133-139.	7.8	72
25	A thin film nanocomposite membrane with pre-immobilized UiO-66-NH₂ toward enhanced nanofiltration performance. RSC Advances, 2019, 9, 24802-24810.	3.6	71
26	Electrochemical study of acetaminophen oxidation by gold nanoparticles supported on a leaf-like zeolitic imidazolate framework. Journal of Colloid and Interface Science, 2018, 524, 1-7.	9.4	70
27	One-pot synthesis of nitrogen and sulfur co-doped onion-like mesoporous carbon vesicle as an efficient metal-free catalyst for oxygen reduction reaction in alkaline solution. Journal of Power Sources, 2014, 272, 267-276.	7.8	67
28	NiCo 2 O 4 spinel/ordered mesoporous carbons as noble-metal free electrocatalysts for oxygen reduction reaction and the influence of structure of catalyst support on the electrochemical activity of NiCo 2 O 4. Journal of Power Sources, 2015, 288, 1-8.	7.8	67
29	A label-free electrochemical biosensor for ultra-sensitively detecting telomerase activity based on the enhanced catalytic currents of acetaminophen catalyzed by Au nanorods. Biosensors and Bioelectronics, 2019, 124-125, 53-58.	10.1	67
30	Facile synthesis of Au-embedded porous carbon from metal-organic frameworks and for sensitive detection of acetaminophen in pharmaceutical products. Materials Science and Engineering C, 2019, 95, 78-85.	7.3	63
31	Development of Pd/Polyoxometalate/nitrogen-doping hollow carbon spheres tricomponent nanohybrids: A selective electrochemical sensor for acetaminophen. Analytica Chimica Acta, 2019, 1047, 28-35.	5.4	59
32	Co-Ni layered double hydroxides wrapped on leaf-shaped copper oxide hybrids for non-enzymatic detection of glucose. Journal of Colloid and Interface Science, 2021, 592, 205-214.	9.4	59
33	N-doped graphitic layer encased cobalt nanoparticles as efficient oxygen reduction catalysts in alkaline media. Nanoscale, 2015, 7, 5607-5611.	5.6	53
34	Advanced membrane bioreactors systems: New materials and hybrid process design. Bioresource Technology, 2018, 269, 476-488.	9.6	52
35	Electrochemical study of nitrobenzene reduction using novel Pt nanoparticles/macroporous carbon hybrid nanocomposites. Analytica Chimica Acta, 2012, 752, 45-52.	5.4	51
36	Electrochemical study of hydrazine oxidation by leaf-shaped copper oxide loaded on highly ordered mesoporous carbon composite. Journal of Colloid and Interface Science, 2019, 549, 98-104.	9.4	51

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37	Facile synthesis of platinum-embedded zirconia/porous carbons tri-component nanohybrids from metal-organic framework and their application for ultra-sensitively detection of methyl parathion. Journal of Colloid and Interface Science, 2019, 536, 424-430.	9.4	47
38	Facile synthesis of Fe, Co bimetal embedded nanoporous carbon polyhedron composites for an efficient oxygen evolution reaction. Journal of Colloid and Interface Science, 2020, 563, 189-196.	9.4	44
39	Confined Nanospace Synthesis of Less Aggregated and Porous Nitrogen-Doped Graphene As Metal-Free Electrocatalysts for Oxygen Reduction Reaction in Alkaline Solution. ACS Applied Materials & Interfaces, 2014, 6, 3023-3030.	8.0	42
40	Sensitive determination of chlorogenic acid in pharmaceutical products based on the decoration of 3D macroporous carbon with Au nanoparticles via polyoxometalates. Analyst, The, 2017, 142, 2603-2609.	3.5	41
41	Construction of an ultrasensitive electrochemical sensing platform for microRNA-21 based on interface impedance spectroscopy. Journal of Colloid and Interface Science, 2020, 578, 164-170.	9.4	41
42	Noble metal-free electrocatalysts for the oxygen reduction reaction based on iron and nitrogen-doped porous graphene. Journal of Materials Chemistry A, 2015, 3, 1058-1067.	10.3	40
43	An enzyme-free electrochemical biosensor based on target-catalytic hairpin assembly and Pd@UiO-66 for the ultrasensitive detection of microRNA-21. Analytica Chimica Acta, 2020, 1138, 59-68.	5.4	40
44	Niâ€“Fe nanocubes embedded with Pt nanoparticles for hydrogen and oxygen evolution reactions. International Journal of Hydrogen Energy, 2020, 45, 20832-20842.	7.1	40
45	Self-Assembly of Mn(II)-Amidoximated PAN Polymeric Beads Complex as Reusable Catalysts for Efficient and Stable Heterogeneous Electro-Fenton Oxidation. ACS Applied Materials & Interfaces, 2019, 11, 3925-3936.	8.0	38
46	Facile green synthesis of nitrogen-doped porous carbon and its use for electrocatalysis towards nitrobenzene and hydrazine. Electrochimica Acta, 2014, 137, 693-699.	5.2	37
47	Dicobalt phosphide nanoparticles encased in boron and nitrogen co-doped graphitic layers as novel non-precious metal oxygen reduction electrocatalysts in alkaline media. Chemical Communications, 2015, 51, 15015-15018.	4.1	37
48	Pd nanoparticles-DNA layered nanoreticulation biosensor based on target-catalytic hairpin assembly for ultrasensitive and selective biosensing of microRNA-21. Sensors and Actuators B: Chemical, 2020, 323, 128621.	7.8	37
49	Facile synthesis of N-doped carbon nanoframes encapsulated by CoP nanoparticles for hydrogen evolution reaction. Journal of Colloid and Interface Science, 2021, 601, 338-345.	9.4	36
50	Electrochemical properties of boron-doped ordered mesoporous carbon as electrocatalyst and Pt catalyst support. Journal of Colloid and Interface Science, 2014, 428, 133-140.	9.4	35
51	Electrochemical behavior of luteolin and its detection based on macroporous carbon modified glassy carbon electrode. Analytical Methods, 2013, 5, 3365.	2.7	34
52	Ex-situ decoration of ordered mesoporous carbon with palladium nanoparticles via polyoxometalates and for sensitive detection of acetaminophen in pharmaceutical products. Journal of Colloid and Interface Science, 2017, 505, 615-621.	9.4	34
53	Facile one-pot synthesis of Co coordination polymer spheres doped macroporous carbon and its application for electrocatalytic oxidation of glucose. Journal of Colloid and Interface Science, 2021, 589, 135-146.	9.4	34
54	Facile synthesis of ZnCo-ZIFs-derived ZnxCo3â^'xO4 hollow polyhedron for efficient oxygen evolution reduction. Journal of Colloid and Interface Science, 2018, 532, 650-656.	9.4	33

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55	Metal-organic framework precursors derived Ni-doping porous carbon spheres for sensitive electrochemical detection of acetaminophen. Talanta, 2021, 228, 122228.	5.5	30
56	Self-assembled graphene oxide microcapsules with adjustable permeability and yolkâ€“shell superstructures derived from atomized droplets. Chemical Communications, 2014, 50, 15867-15869.	4.1	29
57	Preparation and electrocatalytic application of high dispersed Pt nanoparticles/ordered mesoporous carbon composites. Electrochimica Acta, 2011, 56, 5849-5854.	5.2	28
58	Self-assembly of robust graphene oxide membranes with chirality for highly stable and selective molecular separation. Journal of Materials Chemistry A, 2020, 8, 16985-16993.	10.3	28
59	In-situ green assembly of spherical Mn-based metal-organic composites by ion exchange for efficient electrochemical oxidation of organic pollutant. Journal of Hazardous Materials, 2019, 369, 299-308.	12.4	27
60	Novel bamboo leaf shaped CuO nanorod@hollow carbon fibers derived from plant biomass for efficient and nonenzymatic glucose detection. Analyst, The, 2015, 140, 6412-6420.	3.5	26
61	Nitrogen-doped hollow carbon nanospheres for highly sensitive electrochemical sensing of nitrobenzene. Materials Research Bulletin, 2018, 104, 15-19.	5.2	25
62	Formation of Fe2O3 microboxes/ macroporous carbon hybrids from Prussian blue template for electrochemical applications. Journal of Alloys and Compounds, 2018, 739, 425-430.	5.5	25
63	A Highâ€Performance Dualâ€Ion Batteryâ€Supercapacitor Hybrid Device Based on LiCl in Ion Liquid Dualâ€Salt Electrolyte. Advanced Energy Materials, 2022, 12, .	19.5	24
64	Economical, green and rapid synthesis of CDs-Cu2O/CuO nanotube from the biomass waste reed as sensitive sensing platform for the electrochemical detection of hydrazine. Talanta, 2020, 209, 120431.	5.5	23
65	P/N co-doped carbon derived from cellulose: A metal-free photothermal catalyst for transfer hydrogenation of nitroarenes. Applied Surface Science, 2019, 487, 616-624.	6.1	22
66	Crystal Facet Induced Singleâ€Atom Pd/Co_xO_y on a Tunable Metalâ€“Support Interface for Low Temperature Catalytic Oxidation. Small, 2020, 16, e2002071.	10.0	22
67	A partially reduced C60-grafted macroporous carbon composite for the enhanced electrocatalysis of nitroaromatic compounds. RSC Advances, 2013, 3, 17300.	3.6	21
68	Facile Synthesis of Mesoporous Reduced Graphene Oxide Microspheres with Well-Distributed Fe₂O₃ Nanoparticles for Photochemical Catalysis. Industrial & Engineering Chemistry Research, 2016, 55, 10591-10599.	3.7	21
69	Novel potential and current type chiral amino acids biosensor based on L/D-handed double helix carbon nanotubes@polypyrrole@Au nanoparticles@L/D-cysteine. Sensors and Actuators B: Chemical, 2019, 296, 126667.	7.8	21
70	Carbon quantum dots encapsulated in super small platinum nanocrystals core-shell architecture/nitrogen doped graphene hybrid nanocomposite for electrochemical biosensing of DNA damage biomarker-8-hydroxy-2â€²-deoxyguanosine. Analytica Chimica Acta, 2019, 1047, 9-20.	5.4	20
71	CdZnSeS quantum dots condensed with ordered mesoporous carbon for high-sensitive electrochemiluminescence detection of hydrogen peroxide in live cells. Electrochimica Acta, 2020, 362, 137107.	5.2	19
72	Poly-o-toluidine cobalt supported on ordered mesoporous carbon as an efficient electrocatalyst for oxygen reduction. Electrochemistry Communications, 2012, 25, 35-38.	4.7	18

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73	Preparation of Pt anchored on cerium oxide and ordered mesoporous carbon tri-component composite for electrocatalytic oxidation of adrenaline. Materials Science and Engineering C, 2020, 110, 110747.	7.3	18
74	Electrocatalytically active cuprous oxide nanocubes anchored onto macroporous carbon composite for hydrazine detection. Journal of Colloid and Interface Science, 2022, 606, 1239-1248.	9.4	18
75	Preparation of copper oxide anchored on surfactant-functionalized macroporous carbon composite and its electrochemical applications. Analyst, The, 2013, 138, 3633.	3.5	17
76	Facile preparation of ternary heterostructured Au/polyoxometalate/nitrogen- doped hollow carbon sphere nanohybrids for the acetaminophen detection. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 647, 129029.	4.7	17
77	Electrochemical behavior of 6-benzylaminopurine and its detection based on Pt/ordered mesoporous carbons modified electrode. Analytical Methods, 2012, 4, 736.	2.7	16
78	A novel cobalt and nitrogen co-doped mesoporous hollow carbon hemisphere as high-efficient electrocatalysts for oxygen reduction reaction. Journal of Colloid and Interface Science, 2020, 579, 12-20.	9.4	16
79	Macroporous carbon decorated with dendritic platinum nanoparticles: one-step synthesis and electrocatalytic properties. Nanoscale, 2014, 6, 4806-4811.	5.6	15
80	Co/FeC coreâ€“nitrogen doped hollow carbon shell structure with tunable shell-thickness for oxygen evolution reaction. Journal of Colloid and Interface Science, 2020, 580, 794-802.	9.4	15
81	Preparation of Pt nanoparticles embedded on ordered mesoporous carbon hybrids for sensitive detection of acetaminophen. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 641, 128620.	4.7	15
82	Fe2O3 and Co bimetallic decorated nitrogen doped graphene nanomaterial for effective electrochemical water split hydrogen evolution reaction. Journal of Electroanalytical Chemistry, 2019, 849, 113345.	3.8	14
83	Enantioselective electrochemical sensor of tyrosine isomers based on macroporous carbon embedded with sulfato-Î²-Cyclodextrin. Microchemical Journal, 2020, 159, 105469.	4.5	12
84	Magnetic MnxCo3-xO4 microboxes fabricated from Prussian blue analogue templates for electrochemical applications. Journal of Physics and Chemistry of Solids, 2018, 113, 134-141.	4.0	11
85	Highly dispersed cobalt decorated uniform nitrogen doped graphene derived from polydopamine positioning metal-organic frameworks for highly efficient electrochemical water oxidation. Electrochimica Acta, 2018, 289, 139-148.	5.2	11
86	Template-free Synthesis of Stable Cobalt Manganese Spinel Hollow Nanostructured Catalysts for Highly Water-Resistant CO Oxidation. IScience, 2019, 21, 19-30.	4.1	11
87	Template-Free Controllable Electrochemical Synthesis of Hierarchical Flower-Like Platinum Nanoparticles/Nitrogen Doped Helical Carbon Nanotubes for Label-Free Biosensing of Bovine Serum Albumin. Journal of the Electrochemical Society, 2019, 166, B117-B124.	2.9	11
88	Polyoxometalates-mediated facile synthesis of Pt nanoparticles anchored on an ordered mesoporous carbon for electrochemical applications. RSC Advances, 2016, 6, 93469-93475.	3.6	10
89	Epoxy-functionalized macroporous carbon with embedded platinum nanoparticles for electrochemical detection of telomerase activity via telomerase-triggered catalytic hairpin assembly. Talanta, 2021, 225, 121957.	5.5	10
90	Core-shell structure Coâ€“Ni@Feâ€“Cu doped MOFâ€“GR composites for water splitting. International Journal of Hydrogen Energy, 2021, 46, 15124-15134.	7.1	10

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91	Convenient and controllable preparation of a novel uniformly nitrogen doped porous graphene/Pt nanoflower material and its highly-efficient electrochemical biosensing. Analyst, The, 2016, 141, 2741-2747.	3.5	9
92	Novel potential type electrochemical chiral recognition biosensor for amino acid. Journal of Solid State Electrochemistry, 2018, 22, 41-49.	2.5	9
93	Design synthesis of a controllable flower-like Pt-graphene oxide architecture through electrostatic self-assembly for DNA damage biomarker 8-hydroxy-2â€²-deoxyguanosine biosensing research. Analyst, The, 2018, 143, 3619-3627.	3.5	8
94	Ferromagnetic anisotropy in scandium-doped AlN hierarchical nanostructures. Journal of Materials Science, 2020, 55, 8325-8336.	3.7	8
95	Facile and green decoration of Pd nanoparticles on macroporous carbon by polyoxometalate with enhanced electrocatalytic ability. RSC Advances, 2016, 6, 39618-39626.	3.6	7
96	Electrochemical chiral amino acid biosensor based on dopamine-localized gold nanoparticles @ left-handed spiral chiral carbon nanotubes. Analytical Methods, 2020, 12, 3901-3908.	2.7	6
97	Microwave-assisted route for the preparation of Pd anchored on surfactant functionalized ordered mesoporous carbon and its electrochemical applications. RSC Advances, 2016, 6, 70810-70815.	3.6	5
98	Dual Signals Electrochemical Biosensor for Pointâ€ofâ€Care Testing of Amino Acids Enantiomers. Electroanalysis, 2022, 34, 316-325.	2.9	5
99	Simple synthesis of nitrogen doped graphene/ordered mesoporous metal oxides hybrid architecture as high-performance electrocatalysts for biosensing study. RSC Advances, 2016, 6, 96963-96973.	3.6	4
100	Convenient one step synthesis of molybdenum carbide embedded N-doped carbon nanolayer hybrid architecture using cheap cotton as precursor for efficient hydrogen evolution. Journal of Electroanalytical Chemistry, 2018, 824, 207-215.	3.8	4
101	Novel left-handed double-helical chiral carbon nanotubes for electrochemical biosensing study. Analytical Methods, 2015, 7, 9310-9316.	2.7	3
102	Nitrogen doped chiral carbonaceous nanotube for ultrasensitive DNA direct electrochemistry, DNA hybridization and damage study. Analytica Chimica Acta, 2018, 1038, 41-51.	5.4	3
103	Carbon nanorod supported metal alloy nanocubes using polydopamine as location reagent for water splitting. International Journal of Hydrogen Energy, 2021, 46, 36023-36036.	7.1	3
104	Template, surfactant, stabilizer free controllable synthesis of various morphologies platinum decorated ordered mesoporous carbon nano architecture for highâ€“performance electrochemical sensing. Journal of Electroanalytical Chemistry, 2018, 825, 40-50.	3.8	2
105	Room temperature synthesis of Cu[Fe(CN)6]Â·XH2O cube derived ferric oxide@cupric oxide alloy ball on nitrogen-doped graphene as highly efficient electrochemical water splitting. International Journal of Hydrogen Energy, 2019, 44, 28543-28555.	7.1	2
106	Current status and future trends of vaccine development against viral infection and disease. New Journal of Chemistry, 2021, 45, 7437-7449.	2.8	2