

# Weihua Zhu

## List of Publications by Citations

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92  
papers

1,114  
citations

20  
h-index

27  
g-index

98  
ext. papers

1,466  
ext. citations

4.8  
avg, IF

4.74  
L-index

#	Paper	IF	Citations
92	Functionalization of corroles: the nitration reaction. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 10791-9	5.1	77
91	Polyaniline decorated BiMoO nanosheets with effective interfacial charge transfer as photocatalysts and optical limiters. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 28696-28709	3.6	51
90	Influence of metal-porphyrins on the photocatalysis of graphitic carbon nitride. <i>Dyes and Pigments</i> , <b>2018</b> , 153, 241-247	4.6	47
89	Novel Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> /polypyrrole/g-C <sub>3</sub> N <sub>4</sub> nanocomposites with efficient photocatalytic and nonlinear optical properties. <i>RSC Advances</i> , <b>2017</b> , 7, 7658-7670	3.7	35
88	Porphyrin decorated Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> nanocomposites with efficient difunctional properties of photocatalysis and optical nonlinearity. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 748, 929-937	5.7	29
87	Accessible fabrication and mechanism insight of heterostructured BiOCl/Bi <sub>2</sub> MoO <sub>6</sub> /g-C <sub>3</sub> N <sub>4</sub> nanocomposites with efficient photosensitized activity. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 726, 164-172	5.7	29
86	A novel universal colorimetric sensor for simultaneous dual target detection through DNA-directed self-assembly of graphene oxide and magnetic separation. <i>Chemical Communications</i> , <b>2017</b> , 53, 7096-7099 <sup>5,8</sup>	5.8	27
85	Graphene-oxide-supported covalent organic polymers based on zinc phthalocyanine for efficient optical limiting and hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 556, 159-171	9.3	26
84	Porphyrin coordination polymer/Co <sub>1</sub> S composite electrocatalyst for efficient oxygen evolution reaction. <i>Chemical Engineering Journal</i> , <b>2020</b> , 400, 125975	14.7	26
83	Insights into the synergistic effect of multi-walled carbon nanotube decorated Mo-doped CoP <sub>2</sub> hybrid electrocatalysts toward efficient and durable overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17621-17633	13	26
82	Effect of axial ligands and macrocyclic structure on redox potentials and electron-transfer mechanisms of SnIV porphyrins. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 10840-9	5.1	25
81	Regioselectively Halogenated Expanded Porphyrinoids as Building Blocks for Constructing Porphyrin-Porphyrinoid Heterodyads with Tunable Energy Transfer. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 5294-5302	16.4	24
80	Electrochemistry and spectroelectrochemistry of beta,beta'-fused quinoxalinoporphyrins and related extended bis-porphyrins with Co(III), Co(II), and Co(I) central metal ions. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 1027-38	5.1	24
79	A novel lysosome targeted fluorophore for H <sub>2</sub> S sensing: Enhancing the quantitative detection with successive reaction sites. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 320, 128433	8.5	23
78	Reduced graphene oxide covalently functionalized with polyaniline for efficient optical nonlinearities at 532 and 1064 nm. <i>Dyes and Pigments</i> , <b>2019</b> , 160, 344-352	4.6	23
77	Improved solubility and efficient optical limiting for methacrylate-co-porphyrins covalently functionalized single walled carbon nanotube nano hybrids. <i>Dyes and Pigments</i> , <b>2019</b> , 161, 155-161	4.6	23
76	Electrochemical hydrogen and oxygen evolution reactions from a cobalt-porphyrin-based covalent organic polymer. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 579, 598-606	9.3	22

75	Tuning the synthetic cobalt(III)corroles electroreductive catalyzed lindane dehalogenation reactivity through meso-substituents. <i>Journal of Electroanalytical Chemistry</i> , <b>2016</b> , 774, 58-65	4.1	20
74	Fabrication of pyrimidine/g-C3N4 nanocomposites for efficient photocatalytic activity under visible-light illumination. <i>Dyes and Pigments</i> , <b>2019</b> , 163, 634-640	4.6	20
73	Coordination-induced broadband optical nonlinearity through axial bonding of pyridine anchored methine-bridged polypyrrole to metal-porphyrins. <i>Dyes and Pigments</i> , <b>2018</b> , 157, 20-26	4.6	20
72	Gold(III) porphyrins containing two, three, or four fused quinoxalines. Synthesis, electrochemistry, and effect of structure and acidity on electroreduction mechanism. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 2474-83	5.1	19
71	Solvent and acidity effects on the UV-visible spectra and protonation-deprotonation of free-base octaethylcorrole. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2008</b> , 12, 1-10	1.8	19
70	Dysprosium Heteroleptic Corrole-Phthalocyanine Triple-Decker Complexes: Synthesis, Crystal Structure, and Electrochemical and Magnetic Properties. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 11503-11512	5.1	18
69	A2B type copper(III)corroles containing zero-to-five fluorine atoms: Synthesis, electronic structure and facile modulation of electrocatalyzed hydrogen evolution. <i>Dyes and Pigments</i> , <b>2017</b> , 137, 523-531	4.6	18
68	Reductive dechlorination of DDT electrocatalyzed by synthetic cobalt porphyrins in N,N'-dimethylformamide. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2011</b> , 15, 66-74	1.8	17
67	Effect of covalent linkage between hexagonal boron nitride and porphyrins on the optical nonlinearities. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 775, 1007-1015	5.7	17
66	Skeletal Rearrangement of Twisted Thia-Norhexaphyrin: Multiply Annulated Polypyrrolic Aromatic Macrocycles. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 5925-5929	16.4	16
65	Synthesis and Characterization of Palladium(II) Complexes of meso-Substituted [14]Tribenzotriphyrin(2.1.1). <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 11852-8	5.1	16
64	Synthesis and electrochemical properties of meso-phenyl substituted copper corroles: Solvent effect on copper oxidation state. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2011</b> , 15, 1265-1274	1.8	16
63	Neo-N-confused Phlorins and Phlorinone: Rational Synthesis and Tunable Properties. <i>Organic Letters</i> , <b>2017</b> , 19, 650-653	6.2	15
62	Cu(III)triarylcorroles with asymmetric push-pull meso-substitutions: tunable molecular electrochemically catalyzed hydrogen evolution. <i>Dalton Transactions</i> , <b>2017</b> , 46, 6912-6920	4.3	15
61	Efficient optical limiting of polypyrrole ternary nanohybrids co-functionalized with peripherally substituted porphyrins and axially coordinated metal-porphyrins. <i>Dalton Transactions</i> , <b>2019</b> , 48, 14467-14477	4.7	15
60	Synthesis and Characterization of Rare Earth Corrole-Phthalocyanine Heteroleptic Triple-Decker Complexes. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 5795-805	5.1	14
59	Effect of hydrothermal reduction temperature on the optical nonlinearities of porphyrin covalently functionalized graphene oxide. <i>Dyes and Pigments</i> , <b>2019</b> , 167, 189-194	4.6	13
58	Multifunctional carbon nitride nano-homojunction decorated g-C3N4 nanocomposites for optoelectronic performances. <i>Applied Surface Science</i> , <b>2019</b> , 467-468, 1140-1147	6.7	12

57	meso-Tetrakis-(pentafluorophenyl)porphyrin iron(III) chloride electrocatalyzed dechlorination of DDT: Rational molecule design towards enhanced removal of environmental harmful organochlorides. <i>Journal of Electroanalytical Chemistry</i> , <b>2016</b> , 766, 135-140	4.1	11
56	DfffnBffftype of selectively pH-sensing 8-hydroxyquinoline-substituted gallium(III) corrole. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 18012-18017	3.6	11
55	An azido coumarin-quinoline conjugated fluorogenic dye: Utilizing amide-iminol tautomerism for HS detection in live MCF-7 cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2020</b> , 238, 118345	4.4	10
54	Porphyrin dimers with a bridging chiral amide-bonded benzo-moiety: Influence of positional isomerism on the molecular chirality. <i>Dyes and Pigments</i> , <b>2018</b> , 154, 229-233	4.6	10
53	Electrogenerated Fe(I) Porphyrins: Efficient Electrocatalysts for Reductive Dechlorination of DDT in N,N'-Dimethylformamide. <i>Electroanalysis</i> , <b>2013</b> , 25, 1513-1518	3	10
52	Unusual multi-step sequential Au(III)/Au(II) processes of gold(III) quinoxalinoporphyrins in acidic non-aqueous media. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 12802-9	5.1	10
51	Tetra- and Octapyrroles Synthesized from Confusion and Fusion Approaches. <i>Organic Letters</i> , <b>2016</b> , 18, 5046-5049	6.2	10
50	Efficient catalytic activity of BiOBr@polyaniline-MnO <sub>2</sub> ternary nanocomposites for sunlight-driven photodegradation of ciprofloxacin. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2020</b> , 386, 112126	4.7	10
49	Successive Detection of Zinc Ion and Citrate Using a Schiff Base Chemosensor for Enhanced Prostate Cancer Diagnosis in Biosystems.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 1932-1941	4.1	10
48	Lipophilic M(II)OC <sub>5</sub> H <sub>11</sub> ) <sub>8</sub> phthalocyanines (M = H <sub>2</sub> and Ni(II)): synthesis, electronic structure, and their utility for highly efficient carbonyl reductions. <i>Dalton Transactions</i> , <b>2015</b> , 44, 18237-46	4.3	9
47	to TerpyridyleneBridged porphyrin nanorings. <i>Chinese Chemical Letters</i> , <b>2018</b> , 29, 99-101	8.1	9
46	Facile synthesis, spectroscopic and electrochemical properties, and theoretical calculations of porphyrin dimers with a bridging amide-bonded xanthene moiety. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2015</b> , 19, 819-829	1.8	9
45	Effect of solvent binding on UV-vis spectra and redox potentials of octaethylporphyrins containing first-row transition metal ions. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2009</b> , 13, 1233-1242	1.8	9
44	Electroreductive dechlorination of Hexachlorocyclohexane catalyzed by iron porphyrins in nonaqueous media. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2014</b> , 18, 519-527	1.8	8
43	Highly efficient C-Cl bond cleavage and unprecedented C-C bond cleavage of environmentally toxic DDT through molecular electrochemical catalysis. <i>Applied Catalysis A: General</i> , <b>2017</b> , 545, 44-53	5.1	8
42	Mechanistic insight on porphyrin based porous titanium coordination polymer as efficient bifunctional electrocatalyst for hydrogen and oxygen evolution reactions. <i>Dyes and Pigments</i> , <b>2020</b> , 181, 108568	4.6	8
41	A2B corrole with a meso-[Pt(II)(bipy)Cl <sub>2</sub> ]-substituent: Synthesis, electronic structure and highly efficient electrocatalyzed hydrogen evolutions. <i>Inorganica Chimica Acta</i> , <b>2019</b> , 496, 119067	2.7	7
40	Synthesis and properties of chiral amide-bonded porphyrin dimers with various functional bridging blocks. <i>Dyes and Pigments</i> , <b>2019</b> , 171, 107740	4.6	6

39	Synthesis, structural characterization and protonation/deprotonation of hydroxyl-substituted free-base tetraphenylporphyrins in nonaqueous media. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2013</b> , 17, 941-953	1.8	6
38	Nonlinear optical modification of single-walled carbon nanotube by decorating with metal and metal-free porphyrins. <i>Diamond and Related Materials</i> , <b>2020</b> , 106, 107838	3.5	6
37	Efficient photoelectrochemical water oxidation of cobalt phthalocyanine decorated BiVO <sub>4</sub> photoanode by improving kinetics. <i>Applied Surface Science</i> , <b>2021</b> , 564, 150463	6.7	6
36	Dual detection of mercury (II) and lead (II) ions using a facile coumarin-based fluorescent probe via excited state intramolecular proton transfer and photo-induced electron transfer processes. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 346, 130534	8.5	6
35	Chiral Modulation from Molecular to Macroscopic levels by synthetic chiral-amide-bonded porphyrin dimers. <i>Dyes and Pigments</i> , <b>2019</b> , 171, 107637	4.6	5
34	Noncovalent immobilization of Co(II)porphyrin through axial coordination as an enhanced electrocatalyst on carbon electrodes for oxygen reduction and evolution. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 4340-4345	3.6	5
33	Regioselective Oxidative Ring Cleavage of a Phlorin Analogue: An Approach for Synthesizing Linear Tetrapyrroles. <i>Organic Letters</i> , <b>2018</b> , 20, 1941-1944	6.2	5
32	Multiwalled carbon nanotube conjugates of pyrene-substituted metalloporphyrins as electrocatalysts for hydrogen evolution reactions. <i>Inorganica Chimica Acta</i> , <b>2020</b> , 503, 119398	2.7	5
31	Twisted-Planar-Twisted expanded porphyrinoid dimer as a rudimentary reaction-based methanol indicator. <i>Nature Communications</i> , <b>2020</b> , 11, 5289	17.4	5
30	Core-modified rubeans with phenanthrene-fused pyrrole rings: Highly selective and tunable response to Hg <sup>2+</sup> ions. <i>Dyes and Pigments</i> , <b>2018</b> , 158, 188-194	4.6	5
29	Turn-on detection of cysteine by a donor-acceptor type quinoline fluorophore: Exploring the sensing strategy and performance in bioimaging. <i>Dyes and Pigments</i> , <b>2021</b> , 193, 109556	4.6	5
28	Efficient nonlinear-optical behaviors of chiral-amide-bonded porphyrin noncovalent functionalized MWCNTs by terminated pyrene units. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 14890-14895	3.6	4
27	Nonlinear optical performances of graphene oxide ternary nanohybrids functionalized by axially coordinated gallium porphyrins. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 16468-16476	3.6	4
26	Enhanced optical limiting and hydrogen evolution of graphene oxide nanohybrids covalently functionalized by covalent organic polymer based on porphyrin. <i>Dalton Transactions</i> , <b>2021</b> , 50, 7007-7016	4.3	4
25	Flexible Metal-Porphyrin Dimers (M=Mn, Co, Ni, Cu): Synthesis, Spectroscopy, Electrochemistry, Spectroelectrochemistry, and Theoretical Calculations. <i>ChemPlusChem</i> , <b>2017</b> , 82, 598-606	2.8	3
24	Push-pull type manganese(III)corroles: Synthesis, electronic structures and tunable interactions with ctDNA. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2017</b> , 21, 751-758	1.8	3
23	Electrochemistry of mono- and bis-porphyrins containing a fused tetraazaanthracene group. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2012</b> , 16, 674-684	1.8	3
22	Simultaneous Implementation of Heterocycle-Fused Bridge and Modified Pyrrole Unit on Ni(II) Porphyrin Dimers. <i>Organic Letters</i> , <b>2020</b> , 22, 6001-6005	6.2	3

21	Boosted charge transfer in porphyrin and zinc phthalocyanine co-functionalized graphene oxide nano-hybrids toward improved optical limiting and H <sub>2</sub> evolution. <i>Dyes and Pigments</i> , <b>2021</b> , 187, 109142	4.6	3
20	meso-borneol- and meso-carbazole-substituted porphyrins: multifunctional chromophores with tunable electronic structures and antitumor activities. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 2141-2146	3.6	3
19	Enantioselective electrochemical carbon-chloride bond cleavage of hexachlorocyclohexanes (HCHs) catalyzed by Mn(III)Cl-phthalocyanine. <i>Journal of Electroanalytical Chemistry</i> , <b>2017</b> , 803, 111-116	4.1	2
18	Construction of mixed corrole-phthalocyanine europium triple-decker complexes involving meso-substituted trans-A <sub>2</sub> B-corrole. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 2498-2503	3.6	2
17	Spectroscopic investigations and theoretical calculations of DABCO induced xanthene bridged self-assembled zinc(II) porphyrin dimer. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2016</b> , 20, 647-655	1.8	2
16	Synergistic optimization promoted overall water splitting of CoSe@NiSe@MoS heterostructured composites. <i>Chemical Communications</i> , <b>2021</b> , 57, 12516-12519	5.8	2
15	(tBu) <sub>4</sub> M(II)Phthalocyanines (M = Co(II), Ni(II), Cu(II)) revisited: self-assembled nanosheets for enhanced electrochemically catalyzed hydrogen evolution. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 21108-21111	3.6	2
14	Rational design of FeO-MoP@MWCNT composite electrocatalysts toward efficient overall water splitting. <i>Chemical Communications</i> , <b>2021</b> , 57, 6149-6152	5.8	2
13	Regulating the type of cobalt porphyrins for synergistic promotion of photoelectrochemical water splitting of BiVO <sub>4</sub> . <i>Dyes and Pigments</i> , <b>2021</b> , 192, 109468	4.6	2
12	A New Strategy towards Efficient and Recyclable Carbon-Chloride Bond Cleavage of Environmentally Harmful Organochlorides through Electrochemical Catalysis in Non-aqueous Media. <i>ChemistrySelect</i> , <b>2017</b> , 2, 645-649	1.8	1
11	Co(II)Tetraphenyltetraphenanthroporphyrin@MWCNTs: enhanced π-π interaction for robust electrochemical catalysis. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 10631-10636	3.6	1
10	Transition Metal-Free Alkyne-Aldehyde Reductive C-C Coupling through Cascade Borylation/Olefin Isomerization. <i>Helvetica Chimica Acta</i> , <b>2020</b> , 103, e2000028	2	1
9	meso-Expanded Co(III)corroles through Suzuki-Miyaura couplings: Synthesis and tunable electrocatalytic hydrogen evolutions and oxygen reductions. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2021</b> , 25, 273-281	1.8	1
8	Synthesis and characterization of porphyrin-pyrene hybrids. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2020</b> , 24, 278-285	1.8	1
7	Co(III)corrole: versatile synthetic methods and wide range of applications. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2017</b> , 91, 1-15	1.7	0
6	C <sub>2</sub> symmetric borneol-porphyrin hybrids: Synthesis, characterization, electronic structure and their anti-cancer behaviors. <i>Dyes and Pigments</i> , <b>2021</b> , 184, 108837	4.6	0
5	Quantitative Hg detection via forming three coordination complexes using a lysosome targeting quinoline - Fisher aldehyde fluorophore. <i>Talanta</i> , <b>2022</b> , 236, 122884	6.2	0
4	Methyl red-porphyrin chiral hybrids: Expansion of chiral-optical response in the visible region. <i>Dyes and Pigments</i> , <b>2020</b> , 181, 108565	4.6	0

- 3 Modulation of the optical properties of chiral porphyrin dimers by introducing bridged chiral amide-bonds. *Journal of Porphyrins and Phthalocyanines*, **2021**, 25, 37-46 1.8
- 2 Chiral imide-bonded porphyrin-perylene-porphyrin hybrids: The obvious extension of optical response in the visible region. *Dyes and Pigments*, **2021**, 196, 109767 4.6
- 1 Monolayer cobalt(II)phthalocyanine functionalized gold electrode for enhanced electrocatalyzed oxygen reductions. *Journal of Coordination Chemistry*, 1-11 1.6