

Zhiyin Xiao

List of Publications by Year in descending order

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52
papers

1,441
citations

331259

21
h-index

329751

37
g-index

52
all docs

52
docs citations

52
times ranked

2180
citing authors

#	ARTICLE	IF	CITATIONS
1	Brief survey of diiron and monoiron carbonyl complexes and their potentials as CO-releasing molecules (CORMs). <i>Coordination Chemistry Reviews</i> , 2021, 429, 213634.	9.5	24
2	Four iron(II) carbonyl complexes containing both pyridyl and halide ligands: Their synthesis, characterization, stability, and anticancer activity. <i>Applied Organometallic Chemistry</i> , 2021, 35, .	1.7	6
3	The Discrete Breast Cancer Stem Cell Mammosphere Activity of Group 10â€Bis(azadiphosphine) Metal Complexes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6704-6709.	7.2	8
4	Beckmann rearrangement of ketoximes promoted by cyanuric chloride and dimethyl sulfoxide under a mild condition. <i>Tetrahedron Letters</i> , 2021, 63, 152707.	0.7	9
5	The Discrete Breast Cancer Stem Cell Mammosphere Activity of Group 10â€Bis(azadiphosphine) Metal Complexes. <i>Angewandte Chemie</i> , 2021, 133, 6778-6783.	1.6	2
6	One high-nuclearity Eu₁₈ nanoring with rapid ratiometric fluorescence response to dipicolinic acid (an anthrax biomarker). <i>Chemical Communications</i> , 2021, 57, 7316-7319.	2.2	8
7	The superiority of cuprous chloride to iodide in the selective aerobic oxidation of benzylic alcohols at ambient temperature. <i>Applied Organometallic Chemistry</i> , 2021, 35, e6245.	1.7	7
8	Further exploration of the reaction between cis-â€[Fe(CO) ₄ I ₂] and alkylamines: An aminium salt of fac-â€[Fe(CO) ₃ I ₃]- or an amine-bound complex of fac-â€[Fe(CO) ₃ I ₂ (NH ₂ R)]?. <i>Applied Organometallic Chemistry</i> , 2021, 35, e6280.	1.7	3
9	Osteosarcoma Stem Cell Potent Gallium(III)-Polypyridyl Complexes Bearing Diflunisal. <i>Chemistry - A European Journal</i> , 2021, 27, 13846-13854.	1.7	8
10	Revealing the Intrinsic Nature of the Synergistic Effect Caused by the Formation of Heterojunctions in Cuâ€Cu₂O/rGO-NH₂ Nanomaterials in the Catalysis of Selective Aerobic Oxidation of Benzyl Alcohol. <i>Inorganic Chemistry</i> , 2021, 60, 14540-14543.	1.9	10
11	Recent developments in electrochemical investigations into iron carbonyl complexes relevant to the iron centres of hydrogenases. <i>Dalton Transactions</i> , 2021, 51, 40-47.	1.6	15
12	A 42-metal Yb(<sc>iii</sc>) nanowheel with NIR luminescent response to anions. <i>Nanoscale</i> , 2020, 12, 1384-1388.	2.8	29
13	The Bulk Osteosarcoma and Osteosarcoma Stem Cell Activity of a Necroptosis-Inducing Nickel(II)-Phenanthroline Complex. <i>ChemBioChem</i> , 2020, 21, 2854-2860.	1.3	12
14	Breast Cancer Stem Cell Potency of Nickel(II)-Polypyridyl Complexes Containing Non-steroidal Anti-inflammatory Drugs. <i>Chemistry - A European Journal</i> , 2020, 26, 14011-14017.	1.7	10
15	The monoiron anion-fac-[Fe(CO) ₃ I ₃]- and its organic aminium salts: their preparation, CO-release, and cytotoxicity. <i>New Journal of Chemistry</i> , 2020, 44, 10300-10308.	1.4	4
16	Probing into the electrochemistry of four nickel(II) and cobalt(II) complexes with azadiphosphine ligands (PNP) and their catalysis on proton reduction. <i>Electrochimica Acta</i> , 2020, 340, 135998.	2.6	15
17	Diiron(<sc>ii</sc>) pentacarbonyl complexes as CO-releasing molecules: their synthesis, characterization, CO-releasing behaviour and biocompatibility. <i>Dalton Transactions</i> , 2019, 48, 468-477.	1.6	14
18	Crystal structure of 4-(5,5-difluoro-1,3,7,9-tetramethyl-3 <i>H</i> ,5 <i>H</i> -5 ⁺ -dipyrrolo[1,2- <i>b</i> : <i>b'</i>]-2,1â€ ² ,1â€ ² - <i>f</i>)[1,3,2]diazaborin tetraiododiferrate(III), C₁₈H₁₉BF₂Fe₄N₃. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2019, 234, 1015-1016.	0.1	0

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19	Degradable rhenium trioxide nanocubes with high localized surface plasmon resonance absorbance like gold for photothermal theranostics. <i>Biomaterials</i> , 2018, 159, 68-81.	5.7	52
20	Enhancement in catalytic proton reduction by an internal base in a diiron pentacarbonyl complex: its synthesis, characterisation, inter-conversion and electrochemical investigation. <i>Dalton Transactions</i> , 2017, 46, 1864-1871.	1.6	15
21	CuCo ₂ S ₄ nanocrystals: a new platform for multimodal imaging guided photothermal therapy. <i>Nanoscale</i> , 2017, 9, 2626-2632.	2.8	47
22	Facile synthesis of maguery-like CuCo ₂ O ₄ nanowires with high areal capacitance for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2017, 695, 3503-3510.	2.8	72
23	Core-shell materials bearing iron carbonyl units and their CO-release via an upconversion process. <i>Journal of Materials Chemistry B</i> , 2017, 5, 8161-8168.	2.9	31
24	Reaction of three cyclic thioester ligands with triiron dodecacarbonyl and possible reaction mechanisms. <i>Journal of Chemical Sciences</i> , 2017, 129, 1595-1601.	0.7	4
25	The influence of a peripheral functional group of diiron hexacarbonyl complexes on their electrochemistry and electrocatalytic reduction of proton. <i>Electrochimica Acta</i> , 2017, 247, 779-786.	2.6	18
26	Polypyrrole-encapsulated iron tungstate nanocomposites: a versatile platform for multimodal tumor imaging and photothermal therapy. <i>Nanoscale</i> , 2016, 8, 12917-12928.	2.8	34
27	Hydrophilic bismuth sulfur nanoflower superstructures with an improved photothermal efficiency for ablation of cancer cells. <i>Nano Research</i> , 2016, 9, 1934-1947.	5.8	80
28	Synthesis of WS ₂ Nanowires Efficient 808 nm-Laser-Driven Photothermal Nanoagents. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 5865-5868.	0.9	9
29	NaYF ₄ :Yb/Er@PPy core-shell nanoplates: an imaging-guided multimodal platform for photothermal therapy of cancers. <i>Nanoscale</i> , 2016, 8, 1040-1048.	2.8	42
30	SnS nanosheets for efficient photothermal therapy. <i>New Journal of Chemistry</i> , 2016, 40, 4464-4467.	1.4	27
31	Photoinduced Carbon Monoxide Release from Half-Sandwich Iron(II) Carbonyl Complexes by Visible Irradiation: Kinetic Analysis and Mechanistic Investigation. <i>Chemistry - A European Journal</i> , 2015, 21, 13065-13072.	1.7	30
32	Hydrous RuO ₂ nanoparticles as an efficient NIR-light induced photothermal agent for ablation of cancer cells in vitro and in vivo. <i>Nanoscale</i> , 2015, 7, 11962-11970.	2.8	44
33	Photothermal Theragnosis Synergistic Therapy Based on Bimetal Sulphide Nanocrystals Rather Than Nanocomposites. <i>Advanced Materials</i> , 2015, 27, 1339-1345.	11.1	149
34	Simultaneous control of morphology, phase and optical absorption of hydrophilic copper sulfide-based photothermal nanoagents through Cu/S precursor ratios. <i>Journal of Alloys and Compounds</i> , 2015, 648, 98-103.	2.8	15
35	CuS@mSiO ₂ -PEG core-shell nanoparticles as a NIR light responsive drug delivery nanopatform for efficient chemo-photothermal therapy. <i>Dalton Transactions</i> , 2015, 44, 10343-10351.	1.6	80
36	Na _{0.3} WO ₃ nanorods: a multifunctional agent for in vivo dual-model imaging and photothermal therapy of cancer cells. <i>Dalton Transactions</i> , 2015, 44, 2771-2779.	1.6	27

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37	Introducing polyethyleneimine (PEI) into the electrospun fibrous membranes containing diiron mimics of [FeFe]-hydrogenase: Membrane electrodes and their electrocatalysis on proton reduction in aqueous media. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 5081-5091.	3.8	19
38	Heterostructures of CuS nanoparticle/ZnO nanorod arrays on carbon fibers with improved visible and solar light photocatalytic properties. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7304-7313.	5.2	95
39	Diiron hexacarbonyl complexes bearing naphthalene-1,8-dithiolate bridge moiety as mimics of the sub-unit of [FeFe]-hydrogenase: synthesis, characterisation and electrochemical investigations. <i>New Journal of Chemistry</i> , 2015, 39, 9752-9760.	1.4	40
40	Folic acid-conjugated hollow mesoporous silica/CuS nanocomposites as a difunctional nanoplatform for targeted chemo-photothermal therapy of cancer cells. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5358.	2.9	88
41	A Novel Photothermal Nanocrystals of Cu ₇ S ₄ Hollow Structure for Efficient Ablation of Cancer Cells. <i>Nano-Micro Letters</i> , 2014, 6, 169-177.	14.4	33
42	Water-soluble diiron hexacarbonyl complex as a CO-RM: controllable CO-releasing, releasing mechanism and biocompatibility. <i>Dalton Transactions</i> , 2013, 42, 15663.	1.6	31
43	Using polyethyleneimine (PEI) as a scaffold to construct mimicking systems of [FeFe]-hydrogenase: preparation, characterization of PEI-based materials, and their catalysis on proton reduction. <i>Applied Organometallic Chemistry</i> , 2013, 27, 253-260.	1.7	12
44	[FeFe]-hydrogenase-inspired membrane electrode and its catalytic evolution of hydrogen in water. <i>RSC Advances</i> , 2012, 2, 10171.	1.7	15
45	The reactions of pyridinyl thioesters with triiron dodecacarbonyl: their novel diiron carbonyl complexes and mechanistic investigations. <i>Dalton Transactions</i> , 2012, 41, 9482.	1.6	8
46	Enable PVC plastic for a novel role: its functionalisation with diiron models of the sub-unit of [FeFe]-hydrogenase, assembly of film electrodes, and electrochemical investigations. <i>RSC Advances</i> , 2011, 1, 1211.	1.7	18
47	Diiron carbonyl complexes possessing a {Fe(ii)Fe(ii)} core: synthesis, characterisation, and electrochemical investigation. <i>Dalton Transactions</i> , 2011, 40, 4291.	1.6	29
48	Influence of the basicity of internal bases in diiron model complexes on hydrides formation and their transformation into protonated diiron hexacarbonyl form. <i>Journal of Organometallic Chemistry</i> , 2010, 695, 721-729.	0.8	22
49	Synthesis and characterisation of anthracene-based fluorophore and its interactions with selected metal ions. <i>Inorganica Chimica Acta</i> , 2010, 363, 2325-2332.	1.2	7
50	Using pendant ferrocenyl group(s) as an intramolecular standard to probe the reduction of diiron hexacarbonyl model complexes for the sub-unit of [FeFe]-hydrogenase. <i>Electrochemistry Communications</i> , 2010, 12, 342-345.	2.3	47
51	A rare bond between a soft metal (Fe) and a relatively hard base (RO ⁻ , R = phenolic moiety). <i>Inorganic Chemistry Communication</i> , 2010, 13, 1089-1092.	1.8	16
52	Iron(0) tricarbonyl η^4 -1-azadiene complexes and their catalytic performance in the hydroboration of ketones, aldehydes and aldimines via a non-iron hydride pathway. <i>Dalton Transactions</i> , 0, , .	1.6	1