Jin-Xiang Chen

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	In Situ Detection of Plasma Exosomal MicroRNA-1246 for Breast Cancer Diagnostics by a Au Nanoflare Probe. ACS Applied Materials & Interfaces, 2018, 10, 39478-39486.	8.0	133
2	Platforms Formed from a Three-Dimensional Cu-Based Zwitterionic Metal–Organic Framework and Probe ss-DNA: Selective Fluorescent Biosensors for Human Immunodeficiency Virus 1 ds-DNA and Sudan Virus RNA Sequences. Analytical Chemistry, 2015, 87, 12206-12214.	6.5	103
3	A water-stable metal–organic framework of a zwitterionic carboxylate with dysprosium: a sensing platform for Ebolavirus RNA sequences. Chemical Communications, 2016, 52, 132-135.	4.1	102
4	Microenvironment-driven sequential ferroptosis, photodynamic therapy, and chemotherapy for targeted breast cancer therapy by a cancer-cell-membrane-coated nanoscale metal-organic framework. Biomaterials, 2022, 283, 121449.	11.4	89
5	A zinc(II)-based two-dimensional MOF for sensitive and selective sensing of HIV-1 ds-DNA sequences. Analytica Chimica Acta, 2016, 922, 55-63.	5.4	82
6	Simultaneous detection of Dengue and Zika virus RNA sequences with a three-dimensional Cu-based zwitterionic metal–organic framework, comparison of single and synchronous fluorescence analysis. Sensors and Actuators B: Chemical, 2018, 254, 1133-1140.	7.8	82
7	Stitching 2D Polymeric Layers into Flexible Interpenetrated Metal–Organic Frameworks within Single Crystals. Angewandte Chemie - International Edition, 2014, 53, 4628-4632.	13.8	62
8	Sequential and recyclable sensing of Fe ³⁺ and ascorbic acid in water with a terbium(<scp>iii</scp>)-based metal–organic framework. Dalton Transactions, 2019, 48, 8911-8919.	3.3	56
9	Zwitterionic Manganese and Gadolinium Metal–Organic Frameworks as Efficient Contrast Agents for in Vivo Magnetic Resonance Imaging. ACS Applied Materials & Interfaces, 2017, 9, 41378-41386.	8.0	54
10	One Unique 1D Silver(I)-Bromide-Thiol Coordination Polymer Used for Highly Efficient Chemiresistive Sensing of Ammonia and Amines in Water. Inorganic Chemistry, 2016, 55, 9417-9423.	4.0	52
11	Successive and Specific Detection of Hg ²⁺ and I [–] by a DNA@MOF Biosensor: Experimental and Simulation Studies. Inorganic Chemistry, 2018, 57, 8382-8389.	4.0	51
12	Synchronous detection of ebolavirus conserved RNA sequences and ebolavirus-encoded miRNA-like fragment based on a zwitterionic copper (II) metal–organic framework. Talanta, 2018, 180, 396-402.	5.5	50
13	Lanthanum-Based Metal–Organic Frameworks for Specific Detection of Sudan Virus RNA Conservative Sequences down to Single-Base Mismatch. Inorganic Chemistry, 2017, 56, 14880-14887.	4.0	46
14	Effective loading of cisplatin into a nanoscale UiO-66 metal–organic framework with preformed defects. Dalton Transactions, 2019, 48, 5308-5314.	3.3	45
15	A zwitterionic 1D/2D polymer co-crystal and its polymorphic sub-components: a highly selective sensing platform for HIV ds-DNA sequences. Dalton Transactions, 2016, 45, 5092-5100.	3.3	39
16	Experimental and theoretical validations of a one-pot sequential sensing of Hg2+ and biothiols by a 3D Cu-based zwitterionic metalâ^'organic framework. Talanta, 2020, 210, 120596.	5.5	34
17	Synchronous sensing of three conserved sequences of Zika virus using a DNAs@MOF hybrid: experimental and molecular simulation studies. Inorganic Chemistry Frontiers, 2019, 6, 148-152.	6.0	33
18	Transmetalation of a Dodecahedral Na ₉ Aggregate-Based Polymer: A Facile Route to Water Stable Cu(II) Coordination Networks. Inorganic Chemistry, 2014, 53, 7446-7454.	4.0	30

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19	Synergistic photothermal-photodynamic-chemotherapy toward breast cancer based on a liposome-coated core–shell AuNS@NMOFs nanocomposite encapsulated with gambogic acid. Journal of Nanobiotechnology, 2022, 20, 212.	9.1	29
20	Five water-soluble zwitterionic copper(<scp>ii</scp>)-carboxylate polymers: role of dipyridyl coligands in enhancing the DNA-binding, cleaving and anticancer activities. Dalton Transactions, 2015, 44, 13369-13377.	3.3	26
21	A metal-organic framework based PCR-free biosensor for the detection of gastric cancer associated microRNAs. Journal of Inorganic Biochemistry, 2017, 177, 138-142.	3.5	26
22	Synthesis, characterization and potent DNA-cleaving activity of copper(II)-complexed berberine carboxylate. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 7056-7059.	2.2	25
23	Towards polynuclear metal complexes with enhanced bioactivities: Synthesis, crystal structures and DNA cleaving activities of Cull, Nill, Znll, Coll and MnII complexes derived from 4-carboxy-1-(4-carboxybenzyl) pyridinium bromide. Inorganica Chimica Acta, 2013, 405, 461-469.	2.4	25
24	Sequence-specific fluorometric recognition of HIV-1 ds-DNA with zwitterionic zinc(II)-carboxylate polymers. Journal of Inorganic Biochemistry, 2017, 176, 17-23.	3.5	25
25	Rapid sequential detection of Hg2+ and biothiols by a probe DNA—MOF hybrid sensory system. Journal of Inorganic Biochemistry, 2019, 197, 110690.	3.5	24
26	Synthesis, crystal structures and biological evaluation of water-soluble zinc complexes of zwitterionic carboxylates. Inorganica Chimica Acta, 2011, 376, 389-395.	2.4	22
27	Sequential Ag ⁺ /biothiol and synchronous Ag ⁺ /Hg ²⁺ biosensing with zwitterionic Cu ²⁺ -based metal–organic frameworks. Analyst, The, 2020, 145, 2779-2788.	3.5	22
28	Isothermal Self-Primer EXPonential Amplification Reaction (SPEXPAR) for Highly Sensitive Detection of Single-Stranded Nucleic Acids and Proteins. Analytical Chemistry, 2021, 93, 12707-12713.	6.5	22
29	Smart Hairpins@MnO ₂ Nanosystem Enables Target-Triggered Enzyme-Free Exponential Amplification for Ultrasensitive Imaging of Intracellular MicroRNAs in Living Cells. Analytical Chemistry, 2022, 94, 8014-8023.	6.5	22
30	Bent tritopic carboxylates for coordination networks: clues to the origin of self-penetration. CrystEngComm, 2014, 16, 7722-7730.	2.6	21
31	Reactions of [Hg(Tab)2](PF6)2 [Tab = 4-(trimethylammonio)benzenethiolate] with NaX (X = Cl, NO2,) Tj ETQq Compounds. European Journal of Inorganic Chemistry, 2008, 2008, 2593-2600.	1 1 0.7843 2.0	14 rgBT /Ove 19
32	Chemical constituents from Canarium album Raeusch and their anti-influenza A virus activities. Journal of Natural Medicines, 2018, 72, 808-815.	2.3	19
33	A universal catalytic hairpin assembly system for direct plasma biopsy of exosomal PIWI-interacting RNAs and microRNAs. Analytica Chimica Acta, 2022, 1192, 339382.	5.4	18
34	NIR-PTT/ROS-Scavenging/Oxygen-Enriched Synergetic Therapy for Rheumatoid Arthritis by a pH-Responsive Hybrid CeO ₂ -ZIF-8 Coated with Polydopamine. ACS Biomaterials Science and Engineering, 2022, 8, 3361-3376.	5.2	18
35	Synthesis and potent ionophoric activity of a squaramide-linked bis(choloyl) conjugate. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 2859-2862.	2.2	17
36	Experimental and computational investigation of a DNA-shielded 3D metal–organic framework for the prompt dual sensing of Ag+ and S2â^'. RSC Advances, 2019, 9, 15424-15430.	3.6	17

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37	Facile and recyclable dopamine sensing by a label-free terbium(III) metalâ^'organic framework. Talanta, 2021, 221, 121399.	5.5	16
38	Synthesis, hydrolytic DNA-cleaving activities and cytotoxicities of EDTA analogue-tethered pyrrole-polyamide dimer-based Ce(IV) complexes. European Journal of Medicinal Chemistry, 2014, 87, 168-174.	5.5	15
39	Synthesis and DNA photocleaving activities of ancillary ligand-containing zinc complexes of quaternized carboxylates. Inorganica Chimica Acta, 2014, 409, 195-201.	2.4	15
40	AIE-based gold nanostar-berberine dimer nanocomposites for PDT and PTT combination therapy toward breast cancer. Nanoscale, 2022, 14, 9818-9831.	5.6	15
41	Water-Stable Silver-Based Metal–Organic Frameworks of Quaternized Carboxylates and Their Antimicrobial Activity. ACS Applied Bio Materials, 2020, 3, 8525-8531.	4.6	14
42	Fluorescence sensing platform based on ruthenium(II) complexes as high 3S (sensitivity, specificity,) Tj ETQq0 0	0 rgBT /Ov	verlock 10 Tf
43	Selective and recyclable tandem sensing of PO43â^' and Al3+ by a water-stable terbium-based metal–organic framework. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 247, 119084.	3.9	12
44	Synthesis and Structure of an Unprecedented Linear Pentanuclear Bismuth(III) Zwitterionic Thiolate Complex. European Journal of Inorganic Chemistry, 2009, 2009, 38-41.	2.0	10
45	Facile synthesis of a polyether-tethered dimeric berberine as a highly effective DNA-cleaving agent in the presence of Cu(ii) ion. MedChemComm, 2013, 4, 1400.	3.4	10
46	Synthesis, Crystal Structures and DNA-Cleaving Activities of [Cemp] ₂ [MCl ₄] (Cemp= <i>N</i> -Carbethoxymethyl-1,10-phenanthrolinium, M=Cu ^{II} ,) Tj ETQqC	0 û3gBT	/O ve rlock 10
47	Toehold-mediated ligation-free rolling circle amplification enables sensitive and rapid imaging of messenger RNAs in situ in cells. Analytica Chimica Acta, 2021, 1160, 338463.	5.4	10
48	Label-free and highly sensitive APE1 detection based on rolling circle amplification combined with G-quadruplex. Talanta, 2022, 244, 123404.	5.5	10
49	A novel 3,6-diamino-1,8-naphthalimide derivative as a highly selective fluorescent "turn-on―probe for thiols. RSC Advances, 2015, 5, 32990-32993.	3.6	8
50	Phenanthroline-linked berberine dimer and fluorophore-tagged DNA conjugate for the selective detection of microRNA-185: Experimental and molecular docking studies. Analytica Chimica Acta, 2019, 1051, 153-159.	5.4	7
51	Synthesis and transmembrane anion/cation symport activity of a rigid bis(choloyl) conjugate functionalized with guanidino groups. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 745-748.	2.2	6
52	Counterintuitive Solid-State Syntheses of Indium-Thiolate-Phen Cations as Efficient and Selective Fluorescent Biosensors for HIV-1 ds-DNA and Sudan Ebolavirus RNA Sequences. ChemistrySelect, 2016, 1, 2979-2987.	1.5	6
53	Lanthanide-Based Polymers with Charged Ligand Backbones: Triple-Stranded Chain Structures and their DNA Cleavage Studies. Australian Journal of Chemistry, 2015, 68, 493.	0.9	5
54	A protein triggering exponential amplification reaction enables label- and wash-free one-pot protein assay with high sensitivity. Talanta, 2021, 225, 121980.	5.5	5

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55	Convenient synthesis of zwitterionic calcium(II)-carboxylate metal organic frameworks with efficient activities for the treatment of osteoporosis. International Journal of Pharmaceutics, 2021, 608, 121083.	5.2	4
56	Speedy, Specific, Synchronous Sensing Platforms with Ruthenium Complexes for Multiplexed MicroRNA Detection. Inorganic Chemistry, 2019, 58, 15126-15137.	4.0	3
57	An intramolecular DNAzyme-based amplification for miRNA analysis with improving reaction kinetics and high sensitivity. Talanta, 2022, 239, 123137.	5.5	3
58	A Three-Component 1D/2D → 2D Interpenetrated Coordination Network: Structure and Gas Adsorption Studies. Australian Journal of Chemistry, 2014, 67, 1391.	0.9	2
59	Construction of hybrid DNAs@CP for the rapid synchronous sensing of multiplex microRNAs based on experimental studies and molecular simulation. Journal of Inorganic Biochemistry, 2020, 208, 111076.	3.5	1
60	Spiro[indene-1,1′-benzo[<i>e</i>]indolin]-2′-one. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, 09-09.	0.2	0
61	13c-(2-Chloroethoxy)-1,13c-dihydro-2,3-epoxydibenzo[a,kl]xanthan-1-one. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o2069-o2069.	0.2	0