

Xuechao Xu

List of Publications by Year in descending order

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39
papers

1,522
citations

218677

26
h-index

330143

37
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all docs

39
docs citations

39
times ranked

1205
citing authors

#	ARTICLE	IF	CITATIONS
1	Colorimetric quantification and discrimination of phenolic pollutants based on peroxidase-like Fe ₃ O ₄ nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2020, 303, 127225.	7.8	94
2	A peroxidase-mimicking Zr-based MOF colorimetric sensing array to quantify and discriminate phosphorylated proteins. <i>Analytica Chimica Acta</i> , 2020, 1121, 26-34.	5.4	93
3	A portable test strip based on fluorescent europium-based metal-organic framework for rapid and visual detection of tetracycline in food samples. <i>Food Chemistry</i> , 2021, 354, 129501.	8.2	91
4	A cobalt-based polyoxometalate nanozyme with high peroxidase-mimicking activity at neutral pH for one-pot colorimetric analysis of glucose. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5750-5755.	5.8	80
5	Surface charge engineering of nanosized CuS via acidic amino acid modification enables high peroxidase-mimicking activity at neutral pH for one-pot detection of glucose. <i>Chemical Communications</i> , 2018, 54, 13443-13446.	4.1	77
6	Highly sensitive colorimetric detection of arsenite based on reassembly-induced oxidase-mimicking activity inhibition of dithiothreitol-capped Pd nanozyme. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126876.	7.8	62
7	Enzyme-triggered in situ formation of Ag nanoparticles with oxidase-mimicking activity for amplified detection of alkaline phosphatase activity. <i>Analyst</i> , 2019, 144, 2416-2422.	3.5	62
8	Three hidden talents in one framework: a terephthalic acid-coordinated cupric metal-organic framework with cascade cysteine oxidase- and peroxidase-mimicking activities and stimulus-responsive fluorescence for cysteine sensing. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6207-6211.	5.8	54
9	In situ formation of fluorescent polydopamine catalyzed by peroxidase-mimicking FeCo-LDH for pyrophosphate ion and pyrophosphatase activity detection. <i>Analytica Chimica Acta</i> , 2019, 1053, 89-97.	5.4	53
10	Nanomaterial-based sensors and biosensors for enhanced inorganic arsenic detection: A functional perspective. <i>Sensors and Actuators B: Chemical</i> , 2020, 315, 128100.	7.8	51
11	High-performance dual-channel ratiometric colorimetric sensing of phosphate ion based on target-induced differential oxidase-like activity changes of Ce-Zr bimetal-organic frameworks. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128546.	7.8	50
12	Efficient Recovery of Neodymium in Acidic System by Free-Standing Dual-Template Docking Oriented Ionic Imprinted Mesoporous Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 730-739.	8.0	46
13	A facile strategy toward ion-imprinted hierarchical mesoporous material via dual-template method for simultaneous selective extraction of lithium and rubidium. <i>Journal of Cleaner Production</i> , 2018, 171, 264-274.	9.3	45
14	Highly sensitive and specific colorimetric detection of phosphate by using Zr to synergistically suppress the peroxidase-mimicking activity of hydrophilic Fe ₃ O ₄ nanocubes. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126822.	7.8	45
15	Construction of a recyclable oxidase-mimicking Fe ₃ O ₄ @MnOx-based colorimetric sensor array for quantifying and identifying chlorophenols. <i>Analytica Chimica Acta</i> , 2020, 1107, 203-212.	5.4	44
16	Pd nanoparticle-decorated graphitic C ₃ N ₄ nanosheets with bifunctional peroxidase mimicking and "OFF" fluorescence enable naked-eye and fluorescent dual-readout sensing of glucose. <i>Journal of Materials Chemistry B</i> , 2019, 7, 233-239.	5.8	43
17	A smart-phone-based electrochemical platform with programmable solid-state-microwave flow digestion for determination of heavy metals in liquid food. <i>Food Chemistry</i> , 2020, 303, 125378.	8.2	42
18	Integrating peroxidase-mimicking activity with photoluminescence into one framework structure for high-performance ratiometric fluorescent pesticide sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 328, 129024.	7.8	41

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19	One-pot construction of acid phosphatase and hemin loaded multifunctional metal-organic framework nanosheets for ratiometric fluorescent arsenate sensing. <i>Journal of Hazardous Materials</i> , 2021, 412, 124407.	12.4	41
20	Preparation of diethylenetriamine-modified magnetic chitosan nanoparticles for adsorption of rare-earth metal ions. <i>New Journal of Chemistry</i> , 2017, 41, 7739-7750.	2.8	39
21	Breaking the pH limitation of peroxidase-like CoFe ₂ O ₄ nanozyme via vitrification for one-step glucose detection at physiological pH. <i>Sensors and Actuators B: Chemical</i> , 2021, 328, 129033.	7.8	38
22	Simultaneous adsorption of Li(I) and Rb(I) by dual crown ethers modified magnetic ion imprinting polymers. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4778.	3.5	30
23	Colorimetric determination of As(III) based on 3-mercaptopropionic acid assisted active site and interlayer channel dual-masking of Fe-Co-layered double hydroxides with oxidase-like activity. <i>Mikrochimica Acta</i> , 2019, 186, 815.	5.0	30
24	Three-dimensional flower-like multifunctional adsorbents with excellent sorptive removal and colorimetric detection of arsenate. <i>Chemical Engineering Journal</i> , 2020, 398, 125649.	12.7	30
25	Analyte-triggered oxidase-mimetic activity loss of Ag ₃ PO ₄ /UiO-66 enables colorimetric detection of malathion completely free from bioenzymes. <i>Sensors and Actuators B: Chemical</i> , 2021, 338, 129866.	7.8	30
26	Collaborative compounding of metal-organic frameworks and lanthanide coordination polymers for ratiometric visual detection of tetracycline. <i>Dyes and Pigments</i> , 2021, 194, 109545.	3.7	29
27	Synergistically enhanced peroxidase-like activity of Pd nanoparticles dispersed on CeO ₂ nanotubes and their application in colorimetric sensing of sulfhydryl compounds. <i>Journal of Materials Science</i> , 2018, 53, 13912-13923.	3.7	26
28	Colorimetric detection and membrane removal of arsenate by a multifunctional L-arginine modified FeOOH. <i>Separation and Purification Technology</i> , 2021, 258, 118021.	7.9	24
29	Mesoporous hollow silicon spheres modified with manganese ion sieve: Preparation and its application for adsorption of lithium and rubidium ions. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4182.	3.5	22
30	A single-nanozyme colorimetric array based on target-induced differential surface passivation for quantification and discrimination of Cl ⁻ , Br ⁻ and I ⁻ ions. <i>Analytica Chimica Acta</i> , 2021, 1160, 338451.	5.4	20
31	Programmable-Printing Paper-Based Device with a MoS ₂ NP and Gmp/Eu-Cit Fluorescence Couple for Ratiometric Tetracycline Analysis in Various Natural Samples. <i>ACS Sensors</i> , 2021, 6, 4038-4047.	7.8	19
32	Micrometer-scale light-addressable potentiometric sensor on an optical fiber for biological glucose determination. <i>Analytica Chimica Acta</i> , 2020, 1123, 36-43.	5.4	18
33	A novel label-free hypochlorite amperometric sensor based on target-induced oxidation of benzenboronic acid pinacol ester. <i>Chemical Engineering Journal</i> , 2019, 373, 1-7.	12.7	17
34	Active Temperature Regulation and Teamed Boronate Affinity-Facilitated Microelectrode Module for Blood Glucose Detection in Physiological Environment. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128720.	7.8	14
35	A detachable and recyclable electrochemical sensor for high-performance detection of glucose based on boronate affinity. <i>Sensors and Actuators B: Chemical</i> , 2018, 268, 430-437.	7.8	9
36	Dual-template crown ether-functionalized hierarchical porous silica: Preparation and application for adsorption of energy metal lithium. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4114.	3.5	8

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37	Target-induced synergetic modulation of electrochemical tag concentration and electrode surface passivation for one-step sampling filtration-free detection of acid phosphatase activity. <i>Talanta</i> , 2021, 233, 122500.	5.5	5
38	Nanozymes: Emerging Nanomaterials to Detect Toxic Ions. <i>Environmental Chemistry for A Sustainable World</i> , 2021, , 71-93.	0.5	0
39	<i>In situ</i> synthesis of a porous ZrO ₂ coated fiber membrane for efficient static and dynamic removal of Se(IV). <i>New Journal of Chemistry</i> , 0, , .	2.8	0