

Xuemin Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,885
citations

159585

30
h-index

168389

53
g-index

61
all docs

61
docs citations

61
times ranked

3354
citing authors

#	ARTICLE	IF	CITATIONS
1	Amperometric detection of dopamine in human serum by electrochemical sensor based on gold nanoparticles doped molecularly imprinted polymers. <i>Biosensors and Bioelectronics</i> , 2013, 49, 199-203.	10.1	199
2	Simultaneous electrochemical detection of ascorbic acid, dopamine and uric acid based on graphene anchored with Pd@Pt nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 111, 392-397.	5.0	179
3	Magnetic sensing film based on Fe ₃ O ₄ @Au-GSH molecularly imprinted polymers for the electrochemical detection of estradiol. <i>Biosensors and Bioelectronics</i> , 2016, 79, 180-186.	10.1	149
4	Layer-by-layer assembled multilayer films of reduced graphene oxide/gold nanoparticles for the electrochemical detection of dopamine. <i>Journal of Electroanalytical Chemistry</i> , 2012, 672, 40-44.	3.8	132
5	Electrochemical sensor based on molecularly imprinted membranes at platinum nanoparticles-modified electrode for determination of 17 β -estradiol. <i>Biosensors and Bioelectronics</i> , 2011, 29, 29-33.	10.1	119
6	Electrochemical serotonin sensing interface based on double-layered membrane of reduced graphene oxide/polyaniline nanocomposites and molecularly imprinted polymers embedded with gold nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 57-63.	7.8	109
7	Novel electrochemical sensing platform based on magnetic field-induced self-assembly of Fe ₃ O ₄ @Polyaniline nanoparticles for clinical detection of creatinine. <i>Biosensors and Bioelectronics</i> , 2014, 56, 180-185.	10.1	103
8	Dual-Emission Reverse Change Ratio Photoluminescence Sensor Based on a Probe of Nitrogen-Doped Ti ₃ C ₂ Quantum Dots@DAP to Detect H ₂ O ₂ and Xanthine. <i>Analytical Chemistry</i> , 2020, 92, 7770-7777.	6.5	88
9	The study of core-shell molecularly imprinted polymers of 17 β -estradiol on the surface of silica nanoparticles. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2791-2795.	10.1	83
10	Fe ₃ O ₄ @rGO doped molecularly imprinted polymer membrane based on magnetic field directed self-assembly for the determination of amaranth. <i>Talanta</i> , 2014, 123, 101-108.	5.5	82
11	Combined Amperometry and Electrochemical Cytometry Reveal Differential Effects of Cocaine and Methylphenidate on Exocytosis and the Fraction of Chemical Release. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4238-4242.	13.8	76
12	Facile and controllable one-step fabrication of molecularly imprinted polymer membrane by magnetic field directed self-assembly for electrochemical sensing of glutathione. <i>Analytica Chimica Acta</i> , 2015, 886, 37-47.	5.4	74
13	Synthesis of core-shell magnetic molecularly imprinted polymers and detection of sildenafil and vardenafil in herbal dietary supplements. <i>Journal of Hazardous Materials</i> , 2011, 191, 177-183.	12.4	73
14	Aggregation-induced emission from gold nanoclusters for use as a luminescence-enhanced nanosensor to detect trace amounts of silver ions. <i>Journal of Colloid and Interface Science</i> , 2016, 467, 90-96.	9.4	73
15	Enantioselective recognition of Tyrosine Based on a Novel Magnetic Electrochemical Chiral Sensor. <i>Electrochimica Acta</i> , 2017, 241, 386-394.	5.2	71
16	Sensitive and Label-Free Fluorescent Detection of Transcription Factors Based on DNA-Ag Nanoclusters Molecular Beacons and Exonuclease III-Assisted Signal Amplification. <i>Analytical Chemistry</i> , 2017, 89, 7316-7323.	6.5	66
17	Self-assembly molecularly imprinted polymers of 17 β -estradiol on the surface of magnetic nanoparticles for selective separation and detection of estrogenic hormones in feeds. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 2595-2600.	2.3	59
18	Magnetically controlled electrochemical sensing membrane based on multifunctional molecularly imprinted polymers for detection of insulin. <i>Electrochimica Acta</i> , 2016, 218, 91-100.	5.2	55

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19	Preparation of estriol- α -molecularly imprinted silica nanoparticles for determining oestrogens in milk tablets. <i>Food Chemistry</i> , 2012, 131, 1063-1068.	8.2	53
20	Magnetic molecularly imprinted nanoparticles based on dendritic-grafting modification for determination of estrogens in plasma samples. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 905, 105-112.	2.3	48
21	A label-free electrochemical aptasensor based on magnetic biocomposites with Pb ²⁺ -dependent DNAzyme for the detection of thrombin. <i>Analytica Chimica Acta</i> , 2019, 1047, 21-27.	5.4	48
22	Highly selective stir bar coated with dummy molecularly imprinted polymers for trace analysis of bisphenol A in milk. <i>Journal of Separation Science</i> , 2012, 35, 1036-1043.	2.5	47
23	Reduced graphene oxide-platinum nanoparticles composites based imprinting sensor for sensitively electrochemical analysis of ¹⁷ β -estradiol. <i>Journal of Electroanalytical Chemistry</i> , 2012, 682, 121-127.	3.8	42
24	Construction of uniformly sized pseudo template imprinted polymers coupled with HPLC-UV for the selective extraction and determination of trace estrogens in chicken tissue samples. <i>Journal of Hazardous Materials</i> , 2011, 186, 1513-1519.	12.4	41
25	Vanillin-molecularly targeted extraction of stir bar based on magnetic field induced self-assembly of multifunctional Fe ₃ O ₄ @Polyaniline nanoparticles for detection of vanilla-flavor enhancers in infant milk powders. <i>Journal of Colloid and Interface Science</i> , 2015, 442, 22-29.	9.4	40
26	G-quadruplex based Exo III-assisted signal amplification aptasensor for the colorimetric detection of adenosine. <i>Analytica Chimica Acta</i> , 2017, 980, 58-64.	5.4	39
27	A sensitive colorimetric sensor based on one-pot preparation of h-Fe ₃ O ₄ @ppy with high peroxidase-like activity for determination of glutathione and H ₂ O ₂ . <i>Sensors and Actuators B: Chemical</i> , 2021, 338, 129844.	7.8	39
28	A CRISPR-derived biosensor for the sensitive detection of transcription factors based on the target-induced inhibition of Cas12a activation. <i>Biosensors and Bioelectronics</i> , 2021, 173, 112619.	10.1	36
29	Selective separation and enrichment of glibenclamide in health foods using surface molecularly imprinted polymers prepared via dendritic grafting of magnetic nanoparticles. <i>Journal of Separation Science</i> , 2013, 36, 1015-1021.	2.5	35
30	Signal amplification by strand displacement in a carbon dot based fluorometric assay for ATP. <i>Mikrochimica Acta</i> , 2018, 185, 392.	5.0	31
31	Combined Amperometry and Electrochemical Cytometry Reveal Differential Effects of Cocaine and Methylphenidate on Exocytosis and the Fraction of Chemical Release. <i>Angewandte Chemie</i> , 2019, 131, 4282-4286.	2.0	31
32	Detecting transcription factors with allosteric DNA-Silver nanocluster switches. <i>Analytica Chimica Acta</i> , 2019, 1048, 168-177.	5.4	30
33	Label-Free Colorimetric Detection of Acid Phosphatase and Screening of Its Inhibitors Based on Biomimetic Oxidase Activity of MnO ₂ Nanosheets. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3132-3138.	5.2	30
34	RGO LBL modified biomimetic electrochemical sensor for detection of Sildenafil in herbal sexual healthproducts. <i>Biosensors and Bioelectronics</i> , 2013, 42, 287-292.	10.1	29
35	Dummy molecularly imprinted polymers as the coating of stir bar for sorptive extraction of bisphenol A in tap water. <i>Journal of Separation Science</i> , 2012, 35, 707-712.	2.5	28
36	Colorimetric and visual determination of adenosine triphosphate using a boronic acid as the recognition element, and based on the deaggregation of gold nanoparticles. <i>Mikrochimica Acta</i> , 2017, 184, 4305-4312.	5.0	26

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37	A versatile turn-on fluorometric biosensing profile based on split aptamers-involved assembly of nanocluster beacon sandwich. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128586.	7.8	25
38	An electrochemical and fluorescence dual-signal assay based on Fe ₃ O ₄ @MnO ₂ and N-doped carbon dots for determination of hydrogen peroxide. <i>Mikrochimica Acta</i> , 2020, 187, 187.	5.0	25
39	A biosensor based on the biomimetic oxidase Fe ₃ O ₄ @MnO ₂ for colorimetric determination of uric acid. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 212, 112347.	5.0	25
40	Electrochemical Biosensor Based on HRP/Ti ₃ C ₂ /Nafion Film for Determination of Hydrogen Peroxide in Serum Samples of Patients with Acute Myocardial Infarction. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2767-2773.	5.2	24
41	Dumbbell-shaped stir bar coated with dendrimer-based MIPs for selective extraction and analysis of vardenafil and its analogue sildenafil in health foods. <i>Analytical Methods</i> , 2013, 5, 4494.	2.7	23
42	Highly selective determination of acid phosphatase in biological samples using a biomimetic recognition-based SERS sensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 276, 421-428.	7.8	23
43	A turn-on fluorescence aptasensor based on carbon dots for sensitive detection of adenosine. <i>New Journal of Chemistry</i> , 2017, 41, 9230-9235.	2.8	22
44	Selective separation and identification of metabolite groups of <i>Polygonum cuspidatum</i> extract in rat plasma using dispersion solid-phase extraction by magnetic molecularly imprinted polymers coupled with LC/Q-TOF-MS. <i>RSC Advances</i> , 2016, 6, 12193-12204.	3.6	21
45	A versatile fluorometric aptasensing scheme based on the use of a hybrid material composed of polypyrrole nanoparticles and DNA-silver nanoclusters: application to the determination of adenosine, thrombin, or interferon-gamma. <i>Mikrochimica Acta</i> , 2019, 186, 356.	5.0	21
46	A label-free electrochemical biosensor based on magnetic biocomposites with DNAzyme and hybridization chain reaction dual signal amplification for the determination of Pb ²⁺ . <i>Mikrochimica Acta</i> , 2020, 187, 575.	5.0	21
47	DNA-silver nanoclusters/polypyrrole nanoparticles: A label-free and enzyme-free platform for multiplexed transcription factors detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 481-490.	7.8	20
48	Selective capture and rapid identification of Panax notoginseng metabolites in rat faeces by the integration of magnetic molecularly imprinted polymers and high-performance liquid chromatography coupled with orbitrap mass spectrometry. <i>Journal of Chromatography A</i> , 2016, 1455, 65-73.	3.7	19
49	Development and application of novel clonazepam molecularly imprinted coatings for stir bar sorptive extraction. <i>Journal of Colloid and Interface Science</i> , 2016, 468, 183-191.	9.4	18
50	Selective separation and determination of the synthetic colorants in beverages by magnetic solid-phase dispersion extraction based on a Fe ₃ O ₄ /reduced graphene oxide nanocomposite followed by high-performance liquid chromatography with diode array detection. <i>Journal of Separation Science</i> , 2015, 38, 2167-2173.	2.5	17
51	One-step facile synthesis of novel ̢ ² -amino alcohol functionalized carbon dots for the fabrication of a selective copper ion sensing interface based on the biuret reaction. <i>RSC Advances</i> , 2016, 6, 18326-18332.	3.6	17
52	Recent advance in the sensing of biomarker transcription factors. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 132, 116039.	11.4	16
53	Turn-on fluorescent assay based on purification system via magnetic separation for highly sensitive probing of adenosine. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 855-861.	7.8	15
54	A label-free electrochemical magnetic aptasensor based on exonuclease III-assisted signal amplification for determination of carcinoembryonic antigen. <i>Mikrochimica Acta</i> , 2020, 187, 492.	5.0	13

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55	A signal transduction approach for multiplexed detection of transcription factors by integrating DNA nanotechnology, multi-channeled isothermal amplification, and chromatography. <i>Journal of Chromatography A</i> , 2020, 1624, 461148.	3.7	12
56	Molecular imprinting-based micro-stir bar sorptive extraction for specific analysis of Glibenclamide in herbal dietary supplements. <i>Journal of Separation Science</i> , 2012, 35, 3593-3599.	2.5	10
57	An analytical method for estrogens in milk powder by pseudo template imprinted polymer coated fiber coupled with HPLC. <i>Analytical Methods</i> , 2012, 4, 3300.	2.7	10
58	An "on-off" ratio photoluminescence sensor based on catalytically induced PET effect by Fe ₃ O ₄ NPs for the determination of coumarin. <i>Food Chemistry</i> , 2022, 368, 130838.	8.2	10
59	An efficient hybrid design to prepare highly dense imprinted layer-coated silica particles for selective uptake of trace metsulfuron-methyl from complicated matrices. <i>RSC Advances</i> , 2012, 2, 273-283.	3.6	8
60	Determination of active ingredients in Chinese medicine Danning Tablets using dispersion solid-phase extraction by molecular imprinting nanomaterials coupled with HPLC-DAD. <i>Analytical Methods</i> , 2017, 9, 2585-2589.	2.7	5
61	Determination of finasteride in human plasma by liquid chromatography-electrospray ionization tandem mass spectrometry with flow rate gradient. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , 2011, 35, 137-146.	1.6	2