

Xuecai Tan

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,786
citations

279798

23
h-index

276875

41
g-index

51
all docs

51
docs citations

51
times ranked

2110
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermoresponsive behavior of non-isocyanate poly(hydroxyl)urethane for biomedical composite materials. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 843-852.	21.1	8
2	Flexible photoelectrochemical sensor for highly sensitive chloramphenicol detection based on M-TiO ₂ -CdTe QDs/CdS QDs composite. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 2065-2078.	3.7	14
3	Integration of a capacitor to a 3-D DNA walker and a biofuel cell-based self-powered system for ultrasensitive bioassays of microRNAs. <i>Nanoscale</i> , 2022, 14, 815-822.	5.6	35
4	Critical size effect for the surface heat capacities of nano-CdS: theoretical and experimental studies. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 6193-6207.	2.8	3
5	Matching Capacitors to Self-Powered Biosensors for Signal Amplification: Toward Ultrasensitive Electrochemical Detection for MicroRNA-21-Triggered Catalytic Hairpin Assembly. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 2673-2680.	6.7	44
6	Flower-like titanium dioxide as novel co-reaction accelerator for ultrasensitive electrochemiluminescence aptasensor construction based on 2D g-C ₃ N ₄ layer for thrombin detection. <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 959-971.	2.5	8
7	Oxygen vacancies and Bi ₂ S ₃ nanoparticles co-sensitized TiO ₂ nanotube arrays for enhanced photoelectrochemical sensing of chlorpyrifos. <i>Journal of Electroanalytical Chemistry</i> , 2022, 911, 116220.	3.8	18
8	A gold nanoparticle-based immunochromatographic assay for simultaneous detection of multiplex sildenafil adulterants in health food by only one antibody. <i>Analytica Chimica Acta</i> , 2021, 1141, 1-12.	5.4	23
9	A novel signal amplified electrochemiluminescence biosensor based on MIL-53(Al)@CdS QDs and SiO ₂ @AuNPs for trichlorfon detection. <i>Analyst</i> , 2021, 146, 1295-1302.	3.5	11
10	Novel Porphyrin Zr Metal-Organic Framework (PCN-224)-Based Ultraprecise Electrochemiluminescence System for PEDV Sensing. <i>Analytical Chemistry</i> , 2021, 93, 2090-2096.	6.5	43
11	Mitochondria-targetable ratiometric fluorescence probe for carbon monoxide based on naphthalimide derivatives. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 1395-1403.	3.7	14
12	A highly efficient Fe-Ni-S/NF hybrid electrode for promoting oxygen evolution performance. <i>Chemical Communications</i> , 2021, 57, 4572-4575.	4.1	6
13	Preparation and electrochemical properties of a poly(N,N'-methylene diacrylamide)-based cross-linking copolymer film on 6063 Al alloy. <i>Transactions of the Institute of Metal Finishing</i> , 2021, 99, 141-145.	1.3	2
14	Development of a group-specific antibody-based immunoassay method for simultaneously detecting sildenafil-like adulterants in herbal spirit drinks. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2021, 38, 892-903.	2.3	2
15	Construction of an Integrated Device of a Self-Powered Biosensor and Matching Capacitor Based on Graphdiyne and Multiple Signal Amplification: Ultrasensitive Method for MicroRNA Detection. <i>Analytical Chemistry</i> , 2021, 93, 15225-15230.	6.5	96
16	An AIE fluorescent probe with a naphthalimide derivative and its application for detection of hypochlorite and imaging inside living cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 227, 117760.	3.9	18
17	Electrochemiluminescence aptasensor for multiple determination of Hg ²⁺ and Pb ²⁺ ions by using the MIL-53(Al)@CdTe-PEI modified electrode. <i>Analytica Chimica Acta</i> , 2020, 1100, 232-239.	5.4	51
18	Metal-organic frameworks-based sensitive electrochemiluminescence biosensing. <i>Biosensors and Bioelectronics</i> , 2020, 164, 112332.	10.1	99

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19	Assembling PVP-Au NPs as portable chip for sensitive detection of cyanide with surface-enhanced Raman spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 2863-2871.	3.7	11
20	A photoelectrochemical aptasensor for the sensitive detection of streptomycin based on a TiO ₂ /BiOI/BiOBr heterostructure. <i>Analytica Chimica Acta</i> , 2020, 1115, 33-40.	5.4	44
21	Nitrogen-doped graphene quantum dots doped silica nanoparticles as enhancers for electrochemiluminescence thrombin aptasensors based on 3D graphene. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 2579-2588.	2.5	6
22	Crystallization and Temperature Driven Morphological Evolution of Bio-based Polyethylene Glycol-acrylic Rosin Polymer. <i>Polymers</i> , 2019, 11, 1684.	4.5	4
23	A Light-Up Fluorescent Probe for Detection of Formaldehyde in Serum and Gaseous Based on d-εPeT Process. <i>ChemistrySelect</i> , 2019, 4, 9622-9626.	1.5	15
24	Ultrathin BiOCl nanosheet modified TiO ₂ for the photoelectrochemical sensing of chlorpyrifos. <i>Analytical Methods</i> , 2019, 11, 375-380.	2.7	15
25	Mechanisms of Adsorption of Heavy Metal Cations from Waters by an Amino Bio-Based Resin Derived from Rosin. <i>Polymers</i> , 2019, 11, 969.	4.5	15
26	A water-soluble fluorescent probe for detecting creatinine in totally aqueous media and imaging exogenous creatinine in living cells. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2545-2553.	3.7	9
27	A novel 2,5-bis(benzo[d]thiazol-2-yl)phenol scaffold-based ratiometric fluorescent probe for sensing cysteine in aqueous solution and serum. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 217, 1-7.	3.9	43
28	Development of a skeleton-specific antibody and Au nanoparticle-based immunochromatographic sensor for simultaneous detection of various tadalafil adulterants in health food. <i>Food and Agricultural Immunology</i> , 2019, 30, 349-368.	1.4	17
29	Cauliflower-Inspired 3D SERS Substrate for Multiple Mycotoxins Detection. <i>Analytical Chemistry</i> , 2019, 91, 3885-3892.	6.5	200
30	Exploring Cycloreversion Reaction of Cyclobutane Pyrimidine Dimers Quantum Mechanically. <i>Journal of Physical Chemistry A</i> , 2019, 123, 2025-2039.	2.5	4
31	Electrochemiluminescence nanogears aptasensor based on MIL-53(Fe)@CdS for multiplexed detection of kanamycin and neomycin. <i>Biosensors and Bioelectronics</i> , 2019, 129, 100-106.	10.1	83
32	Adsorption of phenolic compounds from water by a novel ethylenediamine rosin-based resin: Interaction models and adsorption mechanisms. <i>Chemosphere</i> , 2019, 214, 821-829.	8.2	61
33	Sensitive detection of melamine by an electrochemiluminescence sensor based on tris(bipyridine)ruthenium(II)-functionalized metal-organic frameworks. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 378-386.	7.8	60
34	Synthesis of carbon quantum dots-doped dummy molecularly imprinted polymer monolithic column for selective enrichment and analysis of aflatoxin B1 in peanut. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 149, 258-264.	2.8	57
35	Performance of L-493 Macro porous Resin for Adsorption of Trihalomethanes from Water. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	2.4	7
36	Preparation and application of a molecular capture for safety detection of cosmetics based on surface imprinting and multi-walled carbon nanotubes. <i>Journal of Colloid and Interface Science</i> , 2018, 527, 124-131.	9.4	13

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37	Selective separation and determination of glucocorticoids in cosmetics using dual-template magnetic molecularly imprinted polymers and HPLC. <i>Journal of Colloid and Interface Science</i> , 2017, 504, 124-133.	9.4	48
38	Theoretical and experimental study on the effects of particle size and temperature on the reaction kinetics of cubic nano-Cu ₂ O. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	5
39	Signal-Amplified Near-Infrared Ratiometric Electrochemiluminescence Aptasensor Based on Multiple Quenching and Enhancement Effect of Graphene/Gold Nanorods/G-Quadruplex. <i>Analytical Chemistry</i> , 2016, 88, 8179-8187.	6.5	67
40	Carbon-Dot and Quantum-Dot-Coated Dual-Emission Core-shell Satellite Silica Nanoparticles for Ratiometric Intracellular Cu ²⁺ Imaging. <i>Analytical Chemistry</i> , 2016, 88, 7395-7403.	6.5	108
41	A sensitive electrochemiluminescence folic acid sensor based on a 3D graphene/CdSeTe/Ru(bpy) ₃ ²⁺ -doped silica nanocomposite modified electrode. <i>Electrochimica Acta</i> , 2016, 187, 433-441.	5.2	35
42	An electrochemical sensor for the determination of phoxim based on a graphene modified electrode and molecularly imprinted polymer. <i>Analytical Methods</i> , 2015, 7, 4786-4792.	2.7	29
43	Synthesis and characterization of core-shell magnetic molecularly imprinted polymers for solid-phase extraction and determination of Rhodamine B in food. <i>Food Chemistry</i> , 2015, 171, 292-297.	8.2	151
44	Rosin-based molecularly imprinted polymers as the stationary phase in high-performance liquid chromatography for selective separation of berberine hydrochloride. <i>Polymer International</i> , 2014, 63, 1699-1706.	3.1	34
45	Electrochemical reaction mechanism of phenacetin at a carboxylated multiwall carbon nanotube modified electrode and its analytical applications. <i>Chemical Research in Chinese Universities</i> , 2014, 30, 905-909.	2.6	4
46	Synthesis and characterization of molecularly imprinted polymers with modified rosin as a cross-linker and selective SPE-HPLC detection of basic orange II in foods. <i>Analytical Methods</i> , 2014, 6, 6397-6406.	2.7	27
47	Size effects on reaction kinetics and surface thermodynamic properties of nano-octahedral cadmium molybdate. <i>Chinese Science Bulletin</i> , 2014, 59, 2490-2498.	0.7	8
48	Electrochemical Sensor Based on Molecularly Imprinted Polymer Film Prepared with Functional Abietic-type Acids as Cross-linker for the Determination of Quinine. <i>Electroanalysis</i> , 2012, 24, 1647-1654.	2.9	12
49	Room-temperature synthesis, growth mechanism and properties of uniform CdMoO ₄ nano-octahedra. <i>CrystEngComm</i> , 2011, 13, 2649.	2.6	33
50	A novel hydrogen peroxide biosensor based on sol-gel poly (vinyl alcohol) (PVA)/(titanium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	2.7	14
51	Amperometric Hydrogen Peroxide Biosensor Based on Horseradish Peroxidase Immobilized on Fe ₃ O ₄ /Chitosan Modified Glassy Carbon Electrode. <i>Electroanalysis</i> , 2009, 21, 1514-1520.	2.9	52