Sheng Tang

List of Publications by Year
in descending order

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52 papers	1,950 citations	218677 26 h-index	254184 43 g-index
52 all docs	52 docs citations	52 times ranked	2130 citing authors

#	Article	IF	Citations
1	Advances in Sample Extraction. Analytical Chemistry, 2016, 88, 228-249.	6.5	161
2	Single-drop microextraction. TrAC - Trends in Analytical Chemistry, 2018, 108, 306-313.	11.4	122
3	Dye adsorption by self-recoverable, adjustable amphiphilic graphene aerogel. Journal of Colloid and Interface Science, 2019, 554, 682-691.	9.4	114
4	Application of Dissolvable Layered Double Hydroxides As Sorbent in Dispersive Solid-Phase Extraction and Extraction by Co-Precipitation for the Determination of Aromatic Acid Anions. Analytical Chemistry, 2013, 85, 7426-7433.	6.5	107
5	Fabrication of porphyrin-based magnetic covalent organic framework for effective extraction and enrichment of sulfonamides. Analytica Chimica Acta, 2019, 1089, 66-77.	5.4	99
6	Application of smartphone-based spectroscopy to biosample analysis: A review. Biosensors and Bioelectronics, 2021, 172, 112788.	10.1	97
7	Recent advances in the application of layered double hydroxides in analytical chemistry: A review. Analytica Chimica Acta, 2020, 1103, 32-48.	5.4	95
8	Automated Dispersive Solid-Phase Extraction Using Dissolvable Fe₃O₄-Layered Double Hydroxide Coreâ€“Shell Microspheres as Sorbent. Analytical Chemistry, 2014, 86, 11070-11076.	6.5	77
9	Synthesis of a poly(N-methylthionine)/reduced graphene oxide nanocomposite for the detection of hydroquinone. Materials Chemistry and Physics, 2019, 223, 548-556.	4.0	77
10	Smartphone Nanocolorimetric Determination of Hydrogen Sulfide in Biosamples after Silverâ€“Gold Coreâ€“Shell Nanoprism-Based Headspace Single-Drop Microextraction. Analytical Chemistry, 2019, 91, 5888-5895.	6.5	65
11	Logarithmic Data Processing Can Be Used Justifiably in the Plotting of a Calibration Curve. Analytical Chemistry, 2021, 93, 12156-12161.	6.5	54
12	In-syringe dispersive solid-phase extraction using dissolvable layered double oxide hollow spheres as sorbent followed by high-performance liquid chromatography for determination of 11 phenols in river water. Journal of Chromatography A, 2014, 1373, 31-39.	3.7	53
13	Gold nanoprism/Tollensâ€™ reagent complex as plasmonic sensor in headspace single-drop microextraction for colorimetric detection of formaldehyde in food samples using smartphone readout. Talanta, 2020, 220, 121388.	5.5	47
14	Highly Sensitive Detection of Multiple MicroRNAs by High-Performance Liquid Chromatography Coupled with Long and Short Probe-Based Recycling Amplification. Analytical Chemistry, 2020, 92, 5033-5040.	6.5	46
15	Fabrication of functional biomass carbon aerogels derived from sisal fibers for application in selenium extraction. Food and Bioproducts Processing, 2018, 111, 93-103.	3.6	42
16	Fabrication of hierarchical ZnIn2S4@CNO nanosheets for photocatalytic hydrogen production and CO2 photoreduction. Chinese Journal of Catalysis, 2020, 41, 454-463.	14.0	42
17	Synthesis of MOF@COF Hybrid Magnetic Adsorbent for Microextraction of Sulfonamides in Food and Environmental Samples. Food Analytical Methods, 2020, 13, 1346-1356.	2.6	41
18	In-syringe extraction using compressible and self-recoverable, amphiphilic graphene aerogel as sorbent for determination of phenols. Talanta, 2019, 195, 165-172.	5.5	37

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19	Pt-dispersed flower-like carbon nanosheet aggregation for low-overpotential electrochemical biosensing. Biosensors and Bioelectronics, 2010, 26, 432-436.	10.1	35
20	Antimony-doped tin oxide nanoparticles as peroxidase mimics for paper-based colorimetric detection of glucose using smartphone read-out. Mikrochimica Acta, 2019, 186, 403.	5.0	34
21	Direct immersion single-drop microextraction of semi-volatile organic compounds in environmental samples: A review. Journal of Hazardous Materials, 2020, 393, 122403.	12.4	32
22	An overview of graphene-based nanoadsorbent materials for environmental contaminants detection. TrAC - Trends in Analytical Chemistry, 2021, 139, 116255.	11.4	31
23	Magnetic Ni/Fe layered double hydroxide nanosheets as enhancer for DNA hairpin sensitive detection of miRNA. Talanta, 2018, 187, 265-271.	5.5	30
24	Selective extraction and release using (EDTA-Ni)-layered double hydroxide coupled with catalytic oxidation of 3,3â€²,5,5â€²-tetramethylbenzidine for sensitive detection of copper ion. Analytica Chimica Acta, 2015, 885, 106-113.	5.4	28
25	Magnetic coreâ€“shell iron(II,III) oxide@layered double oxide microspheres for removal of 2,5-dihydroxybenzoic acid from aqueous solutions. Journal of Colloid and Interface Science, 2015, 437, 316-323.	9.4	28
26	Application of Chiral and Achiral Supercritical Fluid Chromatography in Pesticide Analysis: A Review. Journal of Chromatography A, 2020, 1634, 461684.	3.7	28
27	Needle-based sampling coupled with colorimetric reaction catalyzed by layered double hydroxide peroxidase mimic for rapid detection of the change of d -glucose levels with time in bananas. Analytica Chimica Acta, 2018, 1001, 32-39.	5.4	27
28	Magnetic Three-Phase Single-Drop Microextraction for Rapid Amplification of the Signals of DNA and MicroRNA Analysis. Analytical Chemistry, 2020, 92, 12290-12296.	6.5	27
29	A triple-amplification strategy based on the formation of peroxidase-like two-dimensional DNA/Fe₃O₄ networks initiated by the hybridization chain reaction for highly sensitive detection of microRNA. Chemical Communications, 2019, 55, 8386-8389.	4.1	26
30	Recent advances in the detection of multiple microRNAs. TrAC - Trends in Analytical Chemistry, 2021, 139, 116269.	11.4	21
31	Application of Au or Ag nanomaterials for colorimetric detection of glucose. Analyst, The, 2021, 146, 6726-6740.	3.5	21
32	Excellent porous environmental nanocatalyst: tactically integrating size-confined highly active MnO_x in nanospaces of mesopores enables the promotive catalytic degradation efficiency of organic contaminants. New Journal of Chemistry, 2019, 43, 19020-19034.	2.8	20
33	Recent Advances in the Application of Covalent Organic Frameworks in Extraction: A Review. Critical Reviews in Analytical Chemistry, 0, , 1-34.	3.5	20
34	Polyoxometalate-based materials in extraction, and electrochemical and optical detection methods: A review. Analytica Chimica Acta, 2022, 1209, 339509.	5.4	19
35	Probing Local Structure of Layered Double Hydroxides with ¹H Solid-State NMR Spectroscopy on Deuterated Samples. Journal of Physical Chemistry Letters, 2014, 5, 363-369.	4.6	16
36	Selective extraction by dissolvable (nitriloacetic acid-nickel)-layered double hydroxide coupled with reaction with potassium thiocyanate for sensitive detection of iron(III). Talanta, 2016, 154, 416-422.	5.5	13

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37	pH-dependent selective ion exchange based on (ethylenediamintetraacetic acid-nickel)-layered double hydroxide to catalyze the polymerization of aniline for detection of Cu2+ and Fe3+. Talanta, 2018, 187, 287-294.	5.5	13
38	Three-dimensional DNA/Ni-Fe layered double oxide frame networks-induced â€œusp-exposureâ€•of Au@Ag nanostars for ultrasensitive determination of kanamycin. Sensors and Actuators B: Chemical, 2021, 343, 130082.	7.8	12
39	Solvent-free magnetic-tip microextraction into a single drop for fluorescence sensing. Sensors and Actuators B: Chemical, 2022, 352, 131044.	7.8	12
40	Ultrahigh-Performance Supercritical Fluid Chromatography and Detection of Multiple Biogenic Amines in Gentamicin Sulfate: Method Development Using Computer-Assisted Modeling. Analytical Chemistry, 2022, 94, 7229-7237.	6.5	11
41	Fluorometric determination of zinc(II) by using DNAzyme-modified magnetic microbeads. Mikrochimica Acta, 2018, 185, 447.	5.0	10
42	Two Dimension C3N4/MoS2 Nanocomposites with Enhanced Photocatalytic Hydrogen Evolution under Visible Light Irradiation. Journal Wuhan University of Technology, Materials Science Edition, 2019, 34, 23-29.	1.0	10
43	Carboxypeptidase A immobilization with zeolitic imidazolate framework for enhancement of ochratoxin A degradation ability. Food and Agricultural Immunology, 2020, 31, 587-599.	1.4	10
44	Syringe needle-based sampling coupled with liquid-phase extraction for determination of the three-dimensional distribution of l-ascorbic acid in apples. Food Chemistry, 2016, 199, 533-540.	8.2	8
45	A rapid â€œusp-coveringâ€•to Au nanostar as plasmonic sensor in a single-drop microreactor for the determination of kanamycin in biosamples. Sensors and Actuators B: Chemical, 2022, 366, 131993.	7.8	6
46	Three-in-one via syringe needle-based device: sampling, microextraction and peroxidase-like catalysis for colorimetric detection of the change of biogenic amines levels with time in meat. Food Chemistry, 2021, 358, 129900.	8.2	5
47	Multiply-amplified strategy for the ultrasensitive detection of kanamycin via aptamer-triggered three-dimensional G-quadruplex/Niâ€“Fe layered double oxide frame networks. Analytica Chimica Acta, 2021, 1187, 339169.	5.4	5
48	Use of autoclave extraction-supercritical fluid chromatography/tandem mass spectrometry to analyze 4-(methylintrosamino)-1-(3-pyridyl)-1-butanone and Nâ€™-nitrosonornicotine in tobacco. Journal of Chromatography A, 2019, 1595, 207-214.	3.7	4
49	Cobalt sulphide/graphene aerogel nanocomposite with enhanced anode performance for lithium energy storage. Bulletin of Materials Science, 2021, 44, 1.	1.7	4
50	Fabrication of Cobalt Sulfide/Graphene Sheets Nanocomposite Harvesting Improved Anode Performance for Lithium-Ion Battery. Journal of Nanoscience and Nanotechnology, 2019, 19, 5921-5927.	0.9	3
51	Ni/Fe layered double hydroxide nanosheet/G-quadruplex as a new complex DNAzyme with highly enhanced peroxidase-mimic activity. Analyst, The, 2021, 146, 6470-6473.	3.5	3
52	A research on the preparation of oil-adsorbing hydrophobic porous resins by high internal phase emulsions (HIPEs) template. Science and Engineering of Composite Materials, 2019, 26, 261-269.	1.4	2