Zhiwei Sun

List of Publications by Year
in descending order

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79	1,822	257101	301761
papers	citations	24 h-index	39 g-index

81	81	81	2055
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent advances in facile synthesis and applications of covalent organic framework materials as superior adsorbents in sample pretreatment. TrAC - Trends in Analytical Chemistry, 2018, 108, 154-166.	5.8	151
2	Determination of phthalate esters in environmental water by magnetic Zeolitic Imidazolate Framework-8 solid-phase extraction coupled with high-performance liquid chromatography. Journal of Chromatography A, 2015, 1409, 46-52.	1.8	108
3	Magnetic covalent organic frameworks based on magnetic solid phase extraction for determination of six steroidal and phenolic endocrine disrupting chemicals in food samples. Microchemical Journal, 2018, 143, 350-358.	2.3	77
4	A facile carbon dots based fluorescent probe for ultrasensitive detection of ascorbic acid in biological fluids via non-oxidation reduction strategy. Talanta, 2017, 165, 677-684.	2.9	69
5	Carbon dots for fluorescent detection of Î±-glucosidase activity using enzyme activated inner filter effect and its application to anti-diabetic drug discovery. Analytica Chimica Acta, 2017, 973, 91-99.	2.6	66
6	Recent advances and applications of polydopamine-derived adsorbents for sample pretreatment. TrAC - Trends in Analytical Chemistry, 2017, 97, 1-14.	5.8	66
7	Zirconium (IV)-based metal organic framework (UIO-67) as efficient sorbent in dispersive solid phase extraction of plant growth regulator from fruits coupled with HPLC fluorescence detection. Talanta, 2016, 154, 23-30.	2.9	63
8	Monitoring the contents of six steroidal and phenolic endocrine disrupting chemicals in chicken, fish and aquaculture pond water samples using pre-column derivatization and dispersive liquidâ€“liquid microextraction with the aid of experimental design methodology. Food Chemistry, 2016, 192, 98-106.	4.2	61
9	Compositional and Antioxidant Activity Analysis of Zanthoxylum bungeanum Seed Oil Obtained by Supercritical CO₂ Fluid Extraction. JAOCS, Journal of the American Oil Chemists' Society, 2011, 88, 23-32.	0.8	55
10	A developed pre-column derivatization method for the determination of free fatty acids in edible oils by reversed-phase HPLC with fluorescence detection and its application to Lycium barbarum seed oil. Food Chemistry, 2011, 125, 1365-1372.	4.2	55
11	A simple and sensitive HPLC method based on pre-column fluorescence labelling for multiple classes of plant growth regulator determination in food samples. Food Chemistry, 2015, 170, 123-130.	4.2	48
12	Facile and sensitive determination of N-nitrosamines in food samples by high-performance liquid chromatography via combining fluorescent labeling with dispersive liquid-liquid microextraction. Food Chemistry, 2017, 234, 408-415.	4.2	48
13	A versatile ratiometric nanosensing approach for sensitive and accurate detection of Hg2+ and biological thiols based on new fluorescent carbon quantum dots. Analytical and Bioanalytical Chemistry, 2017, 409, 2373-2382.	1.9	41
14	Dual ultrasonic-assisted dispersive liquidâ€“liquid microextraction coupled with microwave-assisted derivatization for simultaneous determination of 20(S)-protopanaxadiol and 20(S)-protopanaxatriol by ultra high performance liquid chromatographyâ€“tandem mass spectrometry. Journal of Chromatography A, 2016, 1437, 49-57.	1.8	37
15	A highly sensitive and selective method for determination of phenoxy carboxylic acids from environmental water samples by dispersive solid-phase extraction coupled with ultra high performance liquid chromatography-tandem mass spectrometry. Talanta, 2019, 191, 313-323.	2.9	37
16	A facile dual-function fluorescent probe for detection of phosgene and nitrite and its applications in portable chemosensor analysis and food analysis. Talanta, 2021, 221, 121477.	2.9	35
17	Rapid analysis of biogenic amines from rice wine with isotope-coded derivatization followed by high performance liquid chromatographyâ€“tandem mass spectrometry. Food Chemistry, 2016, 192, 388-394.	4.2	33
18	Identification and determination of carboxylic acids in food samples using 2-(2-(anthracen-10-yl)-1H-phenanthro[9,10-d]imidazol-1-yl)ethyl 4-methylbenzenesulfonate (APIETS) as labeling reagent by HPLC with FLD and APCI/MS. Talanta, 2011, 85, 1088-1099.	2.9	29

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19	Sensitive and background-free determination of thiols from wastewater samples by MOF-5 extraction coupled with high-performance liquid chromatography with fluorescence detection using a novel fluorescence probe of carbazole-9-ethyl-2-maleimide. Talanta, 2016, 161, 228-237.	2.9	29
20	A rapid, accurate and sensitive method with the new stable isotopic tags based on microwave-assisted dispersive liquid-liquid microextraction and its application to the determination of hydroxyl UV filters in environmental water samples. Talanta, 2017, 167, 242-252.	2.9	29
21	Fluorometric determination and imaging of glutathione based on a thiol-triggered inner filter effect on the fluorescence of carbon dots. Mikrochimica Acta, 2017, 184, 1923-1931.	2.5	29
22	A rapid response near-infrared ratiometric fluorescent probe for the real-time tracking of peroxynitrite for pathological diagnosis and therapeutic assessment in a rheumatoid arthritis model. Journal of Materials Chemistry B, 2020, 8, 9343-9350.	2.9	29
23	Nonoxidative Strategy for Monitoring Peroxynitrite Fluctuations in Immune Responses of Tumorigenesis. Analytical Chemistry, 2021, 93, 3426-3435.	3.2	27
24	Development of a pair of differential H/D isotope-coded derivatization reagents d0/d3-4-(1-methyl-1H-phenanthro[9,10-d]imidazol-2-yl)phenlamine and its application for determination of aldehydes in selected aquatic products by liquid chromatographyâ€“tandem mass spectrometry. Talanta, 2014, 120, 84-93.	2.9	25
25	A stable mesoporous metalâ€organic framework as highly efficient sorbent of dispersive micro solidâ€phase extraction for the determination of polycyclic aromatic hydrocarbons by HPLC. Journal of Separation Science, 2018, 41, 4331-4339.	1.3	25
26	Determination of thiophenols with a novel fluorescence labelling reagent: analysis of industrial wastewater samples with SPE extraction coupled with HPLC. Analytical and Bioanalytical Chemistry, 2016, 408, 3527-3536.	1.9	24
27	A FRET-based ratiometric fluorescent probe for sulfide detection in actual samples and imaging in Daphnia magna. Talanta, 2020, 209, 120517.	2.9	23
28	Application of 10â€ethylâ€acridineâ€3â€sulfonyl chloride for HPLC determination of aliphatic amines in environmental water using fluorescence and APCIâ€MS. Journal of Separation Science, 2009, 32, 1351-1362.	1.3	22
29	Development of an Efficient HPLC Fluorescence Detection Method for Brassinolide by Ultrasonic-Assisted Dispersive Liquidâ€“Liquid Microextraction Coupled with Derivatization. Chromatographia, 2014, 77, 1653-1660.	0.7	22
30	A novel NBD-based fluorescent turn-on probe for detection of phosgene in solution and the gas phase. Analytical Methods, 2019, 11, 4600-4608.	1.3	22
31	10-Ethyl-acridine-2-sulfonyl Chloride: A New Derivatization Agent for Enhancement of Atmospheric Pressure Chemical Ionization of Estrogens in Urine. Chromatographia, 2009, 70, 45-55.	0.7	21
32	Rapid microwave assisted derivatization of nitrofuran metabolites for analysis in shrimp by high performance liquid chromatography-fluorescence detector. Microchemical Journal, 2019, 150, 104189.	2.3	21
33	Novel fluorescence labeling reagent 4-(carbazole-9-yl)-benzyl chloroformate and its application in the determination of nitrofuran metabolites compounds in foodstuffs by high performance liquid chromatography with fluorescence detection. Microchemical Journal, 2019, 145, 9-17.	2.3	21
34	Recent progress in the development of chemodosimeters for fluorescence visualization of phosgene. Dyes and Pigments, 2021, 193, 109540.	2.0	20
35	Determination of nitrofuran metabolites in marine products by high performance liquid chromatographyâ€“fluorescence detection with microwave-assisted derivatization. New Journal of Chemistry, 2019, 43, 2649-2657.	1.4	18
36	Determination of residual organophosphorus thioester pesticides in agricultural products by chemical isotope-labelling liquid chromatography-tandem mass spectrometry coupled with in-syringe dispersive solid phase clean-up and in situ cleavage. Analytica Chimica Acta, 2019, 1055, 44-55.	2.6	17

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37	Sensitive, accurate and rapid detection of trace aliphatic amines in environmental samples with ultrasonic-assisted derivatization microextraction using a new fluorescent reagent for high performance liquid chromatography. Journal of Chromatography A, 2014, 1352, 8-19.	1.8	16
38	Design of a multifunctional biotinylated copper complex for visualization and quantification of cancer hypoxia levels. Sensors and Actuators B: Chemical, 2019, 282, 541-548.	4.0	16
39	Cationic gemini surfactant-resorcinol-aldehyde resin and its application in the extraction of endocrine disrupting compounds from food contacting materials. Food Chemistry, 2019, 277, 407-413.	4.2	16
40	Sensitive and selective detection of phosgene with a bis-(1H-benzimidazol-2-yl)-based turn-on fluorescent probe in the solution and gas phase. Analytical Methods, 2020, 12, 3123-3129.	1.3	14
41	Comprehensive Comparisons between 1-Phenyl-3-methyl-5-pyrazolones, 1-(4-Methoxyphenyl)-3-methyl-5-pyrazolones and 1-(2-Naphthyl)-3-methyl-5-pyrazolones as Labeling Reagents Used in LC-DAD-ESI-MS-MS Analysis of Neutral Aldoses and Uronic Acids. Chromatographia, 2010, 71, 789-797.	0.7	13
42	Sensitive determination of thiols in wine samples by a stable isotope-coded derivatization reagent d 0 / d 4 -acridone-10-ethyl-N-maleimide coupled with high-performance liquid chromatography-electrospray ionization-tandem mass spectrometry analysis. Journal of Chromatography A, 2017, 1491, 98-107.	1.8	13
43	Development of ultrasonic-assisted closed in-syringe extraction and derivatization for the determination of labile abietic acid and dehydroabietic acid in cosmetics. Journal of Chromatography A, 2014, 1371, 20-29.	1.8	12
44	Determination of parabens in domestic sewage by isotope-coded derivatization coupled with high performance liquid chromatography-tandem mass spectrometry. Microchemical Journal, 2017, 130, 420-427.	2.3	11
45	Construction of ultrasensitive devices for visualization and quantification of phosgene based on FRET-mediated two-photon chemosensor. Dyes and Pigments, 2021, 187, 109138.	2.0	11
46	A Novel Labeling Reagent of 2-(12-Benzo[b]acridin-5-(12H)-yl)-acetohydrazide for Determination of Saturated and Unsaturated Fatty Acids in Traditional Chinese Herbs by HPLC-APCI-MS. Chromatographia, 2012, 75, 571-583.	0.7	10
47	A sensitive and efficient method for the determination of 8 chlorophenoxy acid herbicides in crops by dispersive liquidâ€“liquid microextraction and HPLC with fluorescence detection and identification by MS. Analytical Methods, 2016, 8, 3536-3544.	1.3	10
48	A novel, sensitive and convenient method for determination of sialic acids in human serum utilizing ultrasonic-assisted closed in-syringe hydrolysis and derivatization prior to high performance liquid chromatography. Analytical Methods, 2016, 8, 554-563.	1.3	10
49	Stable isotope labeling assisted liquid chromatographyâ€“tandem mass spectrometry for the analysis of perfluorinated carboxylic acids in serum samples. Talanta, 2017, 166, 255-261.	2.9	10
50	LC-DAD-ESI-MS Characterization of Carbohydrates Using a New Labeling Reagent. Chromatographia, 2008, 68, 893-902.	0.7	9
51	LC Determination of Trace Biogenic Amines in Foods Samples with Fluorescence Detection and MS Identification. Chromatographia, 2011, 73, 43-50.	0.7	9
52	HPLC determination of Î³â€aminobutyric acid and its analogs in human serum using precolumn fluorescence labeling with 4â€(carbazoleâ€9â€yl)â€benzyl chloroformate. Journal of Separation Science, 2019, 42, 826-833.	1.3	9
53	A novel switchable solvent liquid-phase microextraction technique based on the solidification of floating organic droplets: HPLC-FLD analysis of polycyclic aromatic hydrocarbon monohydroxy metabolites in urine samples. New Journal of Chemistry, 2020, 44, 3038-3044.	1.4	9
54	Determination of amino acids in rat brain microdialysate with 1,2,5,6-dibenzocarbazole-9-ethyl chloroformate as labeling reagent by high performance liquid chromatographic fluorescence detection and mass spectrometric identification. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 1367-1374.	1.2	8

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55	Determination of Ultraviolet Filters in Domestic Wastewater by LCâ€“MS Coupled with Polydopamine-Based Magnetic Solid-Phase Extraction and Isotope-Coded Derivatization. Chromatographia, 2018, 81, 1673-1684.	0.7	8
56	A Review on Differential Isotope-coded Derivatization Reagents for LC-API-MS Analyses. Current Analytical Chemistry, 2014, 10, 381-392.	0.6	8
57	Determination of thiol-containing drugs in human plasma by stable isotope labeling coupled with high performance liquid chromatography-electrospray ionization-tandem mass spectrometry analysis. Microchemical Journal, 2018, 143, 21-30.	2.3	7
58	A novel fluorescent labeling reagent, 2-(9-acridone)-ethyl chloroformate, and its application to the analysis of free amino acids in honey samples by HPLC with fluorescence detection and identification with online ESI-MS. Analytical and Bioanalytical Chemistry, 2020, 412, 8339-8350.	1.9	7
59	Accurate Analysis and Evaluation of Acidic Plant Growth Regulators in Transgenic and Nontransgenic Edible Oils with Facile Microwave-Assisted Extractionâ€“Derivatization. Journal of Agricultural and Food Chemistry, 2015, 63, 8058-8067.	2.4	6
60	3â€(2â€Bromoacetamido)â€Nâ€(9â€ethylâ€9H)â€carbazol fluorescent probe and its application for the determination of thiophenols in rubber products by HPLC with fluorescence detection and atmospheric chemical ionization mass spectrometry identification. Journal of Separation Science, 2017, 40, 2528-2540.	1.3	6
61	A highly sensitive and selective method for analysis of biomarkers of diisocyanate exposure in human urine by high-performance liquid chromatography with intramolecular excimer-forming fluorescence derivatization. Journal of Liquid Chromatography and Related Technologies, 2018, 41, 982-991.	0.5	6
62	A novel high-performance liquid chromatography-fluorescence analysis coupled with in situ degradation-derivatization technique for quantitation of organophosphorus thioester pesticide residues in tea. Analytical and Bioanalytical Chemistry, 2018, 410, 6911-6922.	1.9	6
63	Ebselen-Agents for Sensing, Imaging and Labeling: Facile and Full-Featured Application in Biochemical Analysis. ACS Applied Bio Materials, 2021, 4, 2217-2230.	2.3	6
64	LC-Fluorescence Detection Analysis of Amino Acids from Stellera chamaejasme L. Using 2-[2-(Dibenzocarbazole)-ethoxy] Ethyl Chloroformate as Labeling Reagent. Chromatographia, 2010, 72, 641-649.	0.7	5
65	Development of a facile and sensitive HPLCâ€FLD method via fluorescence labeling for triterpenic acid bioavailability investigation. Biomedical Chromatography, 2017, 31, e3894.	0.8	5
66	Determination of Semicarbazide in Foodstuffs by HPLC with Fluorescence Detection Using 2-Formylphenylboronic Acid as Derivatization Reagent. Chromatographia, 2019, 82, 1051-1058.	0.7	5
67	Determination and Identification of Primary Aliphatic Amines Using 4-(1H-Phenanthro[9,10-d]Imidazol-2-yl)Benzoic Acid as Novel Pre-Column Labeling Reagent by LC with Fluorescence Detection and Atmospheric Pressure Chemical Ionization Mass Spectroscopy. Chromatographia, 2009, 70, 1055-1063.	0.7	4
68	HPLC-FLUORIMETRIC METHOD FOR ANALYSIS OF FREE FATTY ACIDS IN STELLERA CHAMAEJASMA L. Journal of Liquid Chromatography and Related Technologies, 2010, 33, 859-874.	0.5	4
69	Determination of Free Fatty Acids of Chinese Coriandrum sativum L. Using Benzimidazo[2,1-b]quinazolin-12(6H)-one-5-ethyl-p-toluenesulfonate as Precolumn Labeling Reagent by LC with Fluorescence Detection. Chromatographia, 2016, 79, 547-559.	0.7	4
70	Determination of thiols by gas purge microsyringe extraction coupled with chemical derivatization by high performance liquid chromatography-fluorescence detection with mass spectrometry identification. Journal of Liquid Chromatography and Related Technologies, 2018, 41, 794-803.	0.5	4
71	Using 4-(Carbazole-9-yl)-benzyl Chloroformate as a Derivatization Reagent for the Measurement of Amino Acids in Tea Samples by High-Performance Liquid Chromatography with Fluorescence Detection. Chromatographia, 2020, 83, 487-496.	0.7	4
72	Determination of Free Fatty Acids in Tibet Folk Medicine Potentilla anserina L. Using a New Labeling Reagent by LC with Fluorescence Detection and Identification with Online Atmospheric Chemical Ionization-MS Identification. Chromatographia, 2010, 71, 623-631.	0.7	3

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73	DETERMINATION AND IDENTIFICATION OF ALIPHATIC AMINES FROM ENVIRONMENTAL WATER WITH HPLC-FLD AND APCI/MS USING 1-[1,2,5,6-DIBENZOCARBAZOL-9-YL]PROPAN-2-YL CHLOROFORMATE (DBCPC-CL) AS NOVEL LABELING REAGENT. Journal of Liquid Chromatography and Related Technologies, 2010, 33, 390-404.	0.5	3
74	2-(2-(Pyren-1-yl)-1H-benzo[d]imidazol-1-yl)-ethyl-4-methyl benzenesulfonate (PBITS) and its application for determination of bile acids by HPLC-FLD-MS. Analytical Methods, 2014, 6, 1135-1141.	1.3	3
75	Determination of naturally occurring thyreostats in bovine milk by high performance liquid chromatography combined with fluorescence detection. Microchemical Journal, 2019, 145, 892-898.	2.3	3
76	QUANTITATIVE ANALYSIS OF FATTY ACIDS FROM SNOW LOTUS (SAUSSUREA) SPECIES USING HPLC WITH FLUORESCENCE DETECTION AND ATMOSPHERIC CHEMICAL IONIZATION-MASS SPECTROMETRY. Journal of Liquid Chromatography and Related Technologies, 2012, 35, 1882-1894.	0.5	2
77	NOVEL REAGENT FOR THE SENSITIVE DETERMINATION OF FREE FATTY ACIDS BY HPLC WITH FLUORESCENCE DETECTION AND IDENTIFICATION WITH MASS SPECTROMETRY AND APPLICATION TO SEVERAL MEDICINAL HERBS. Journal of Liquid Chromatography and Related Technologies, 2013, 36, 2107-2124.	0.5	2
78	Fluorescence Probe of 10-Phenyl-acridone-2-sulfonyl Chloride and Its Application for Determination of Free Aliphatic Amines in Environmental Samples by HPLC with Fluorescence Detection and APCI-MS. Chromatographia, 2012, 75, 1107-1116.	0.7	1
79	DETERMINATION AND IDENTIFICATION OF FATTY ACIDS INMICROULA SIKKIMENSISSEED OIL USING 1,2-BENZOCARBAZOLE-9-ETHYL-P-TOLUENESULFONATE AS A NOVEL LABELING REAGENT BY HPLC WITH FLUORESCENCE DETECTION AND APCI-MS. Journal of Liquid Chromatography and Related Technologies, 2012, 35, 2066-2080.	0.5	0