

# Zhiwei Sun

## List of Publications by Year in descending order

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79  
papers

1,822  
citations

257101

24  
h-index

301761

39  
g-index

81  
all docs

81  
docs citations

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times ranked

2055  
citing authors

#	ARTICLE	IF	CITATIONS
1	A facile dual-function fluorescent probe for detection of phosgene and nitrite and its applications in portable chemosensor analysis and food analysis. <i>Talanta</i> , 2021, 221, 121477.	2.9	35
2	Nonoxidative Strategy for Monitoring Peroxynitrite Fluctuations in Immune Responses of Tumorigenesis. <i>Analytical Chemistry</i> , 2021, 93, 3426-3435.	3.2	27
3	Construction of ultrasensitive devices for visualization and quantification of phosgene based on FRET-mediated two-photon chemosensor. <i>Dyes and Pigments</i> , 2021, 187, 109138.	2.0	11
4	Recent progress in the development of chemodosimeters for fluorescence visualization of phosgene. <i>Dyes and Pigments</i> , 2021, 193, 109540.	2.0	20
5	Ebselen-Agents for Sensing, Imaging and Labeling: Facile and Full-Featured Application in Biochemical Analysis. <i>ACS Applied Bio Materials</i> , 2021, 4, 2217-2230.	2.3	6
6	A FRET-based ratiometric fluorescent probe for sulfide detection in actual samples and imaging in <i>Daphnia magna</i> . <i>Talanta</i> , 2020, 209, 120517.	2.9	23
7	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. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 8339-8350.	1.9	7
8	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. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9343-9350.	2.9	29
9	Sensitive and selective detection of phosgene with a bis-(1 <i>H</i> -benzimidazol-2-yl)-based turn-on fluorescent probe in the solution and gas phase. <i>Analytical Methods</i> , 2020, 12, 3123-3129.	1.3	14
10	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. <i>New Journal of Chemistry</i> , 2020, 44, 3038-3044.	1.4	9
11	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. <i>Chromatographia</i> , 2020, 83, 487-496.	0.7	4
12	A novel NBD-based fluorescent turn-on probe for detection of phosgene in solution and the gas phase. <i>Analytical Methods</i> , 2019, 11, 4600-4608.	1.3	22
13	Rapid microwave assisted derivatization of nitrofurans metabolites for analysis in shrimp by high performance liquid chromatography-fluorescence detector. <i>Microchemical Journal</i> , 2019, 150, 104189.	2.3	21
14	Determination of nitrofurans metabolites in marine products by high performance liquid chromatography-fluorescence detection with microwave-assisted derivatization. <i>New Journal of Chemistry</i> , 2019, 43, 2649-2657.	1.4	18
15	Determination of naturally occurring thyreostats in bovine milk by high performance liquid chromatography combined with fluorescence detection. <i>Microchemical Journal</i> , 2019, 145, 892-898.	2.3	3
16	Determination of Semicarbazide in Foodstuffs by HPLC with Fluorescence Detection Using 2-Formylphenylboronic Acid as Derivatization Reagent. <i>Chromatographia</i> , 2019, 82, 1051-1058.	0.7	5
17	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. <i>Talanta</i> , 2019, 191, 313-323.	2.9	37
18	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. <i>Analytica Chimica Acta</i> , 2019, 1055, 44-55.	2.6	17

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19	Design of a multifunctional biotinylated copper complex for visualization and quantification of cancer hypoxia levels. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 541-548.	4.0	16
20	HPLC determination of $^{13}\text{C}$ -aminobutyric acid and its analogs in human serum using precolumn fluorescence labeling with 4-(carbazole-9-yl)-benzyl chloroformate. <i>Journal of Separation Science</i> , 2019, 42, 826-833.	1.3	9
21	Novel fluorescence labeling reagent 4-(carbazole-9-yl)-benzyl chloroformate and its application in the determination of nitrofurantoin metabolites compounds in foodstuffs by high performance liquid chromatography with fluorescence detection. <i>Microchemical Journal</i> , 2019, 145, 9-17.	2.3	21
22	Cationic gemini surfactant-resorcinol-aldehyde resin and its application in the extraction of endocrine disrupting compounds from food contacting materials. <i>Food Chemistry</i> , 2019, 277, 407-413.	4.2	16
23	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. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2018, 41, 982-991.	0.5	6
24	Determination of thiols by gas purge microsyringe extraction coupled with chemical derivatization by high performance liquid chromatography-fluorescence detection with mass spectrometry identification. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2018, 41, 794-803.	0.5	4
25	Determination of Ultraviolet Filters in Domestic Wastewater by LC-MS Coupled with Polydopamine-Based Magnetic Solid-Phase Extraction and Isotope-Coded Derivatization. <i>Chromatographia</i> , 2018, 81, 1673-1684.	0.7	8
26	Recent advances in facile synthesis and applications of covalent organic framework materials as superior adsorbents in sample pretreatment. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 108, 154-166.	5.8	151
27	A stable mesoporous metal-organic framework as highly efficient sorbent of dispersive micro solid-phase extraction for the determination of polycyclic aromatic hydrocarbons by HPLC. <i>Journal of Separation Science</i> , 2018, 41, 4331-4339.	1.3	25
28	A novel high-performance liquid chromatography-fluorescence analysis coupled with in situ degradation-derivatization technique for quantitation of organophosphorus thioester pesticide residues in tea. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 6911-6922.	1.9	6
29	Determination of thiol-containing drugs in human plasma by stable isotope labeling coupled with high performance liquid chromatography-electrospray ionization-tandem mass spectrometry analysis. <i>Microchemical Journal</i> , 2018, 143, 21-30.	2.3	7
30	Magnetic covalent organic frameworks based on magnetic solid phase extraction for determination of six steroidal and phenolic endocrine disrupting chemicals in food samples. <i>Microchemical Journal</i> , 2018, 143, 350-358.	2.3	77
31	Stable isotope labeling assisted liquid chromatography-tandem mass spectrometry for the analysis of perfluorinated carboxylic acids in serum samples. <i>Talanta</i> , 2017, 166, 255-261.	2.9	10
32	A facile carbon dots based fluorescent probe for ultrasensitive detection of ascorbic acid in biological fluids via non-oxidation reduction strategy. <i>Talanta</i> , 2017, 165, 677-684.	2.9	69
33	A versatile ratiometric nanosensing approach for sensitive and accurate detection of $\text{Hg}^{2+}$ and biological thiols based on new fluorescent carbon quantum dots. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 2373-2382.	1.9	41
34	Development of a facile and sensitive HPLC-FLD method via fluorescence labeling for triterpenic acid bioavailability investigation. <i>Biomedical Chromatography</i> , 2017, 31, e3894.	0.8	5
35	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. <i>Journal of Chromatography A</i> , 2017, 1491, 98-107.	1.8	13
36	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. <i>Talanta</i> , 2017, 167, 242-252.	2.9	29

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37	Facile and sensitive determination of N-nitrosamines in food samples by high-performance liquid chromatography via combining fluorescent labeling with dispersive liquid-liquid microextraction. <i>Food Chemistry</i> , 2017, 234, 408-415.	4.2	48
38	3-(2-Bromoacetamido)-9-ethylcarbazol 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. <i>Journal of Separation Science</i> , 2017, 40, 2528-2540.	1.3	6
39	Carbon dots for fluorescent detection of $\alpha$ -glucosidase activity using enzyme activated inner filter effect and its application to anti-diabetic drug discovery. <i>Analytica Chimica Acta</i> , 2017, 973, 91-99.	2.6	66
40	Fluorometric determination and imaging of glutathione based on a thiol-triggered inner filter effect on the fluorescence of carbon dots. <i>Mikrochimica Acta</i> , 2017, 184, 1923-1931.	2.5	29
41	Determination of parabens in domestic sewage by isotope-coded derivatization coupled with high performance liquid chromatography-tandem mass spectrometry. <i>Microchemical Journal</i> , 2017, 130, 420-427.	2.3	11
42	Recent advances and applications of polydopamine-derived adsorbents for sample pretreatment. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 97, 1-14.	5.8	66
43	A sensitive and efficient method for the determination of 8 chlorophenoxy acid herbicides in crops by dispersive liquid-liquid microextraction and HPLC with fluorescence detection and identification by MS. <i>Analytical Methods</i> , 2016, 8, 3536-3544.	1.3	10
44	Determination of thiophenols with a novel fluorescence labelling reagent: analysis of industrial wastewater samples with SPE extraction coupled with HPLC. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3527-3536.	1.9	24
45	Determination of Free Fatty Acids of Chinese <i>Coriandrum sativum</i> L. Using Benzimidazo[2,1-b]quinazolin-12(6H)-one-5-ethyl-p-toluenesulfonate as Precolumn Labeling Reagent by LC with Fluorescence Detection. <i>Chromatographia</i> , 2016, 79, 547-559.	0.7	4
46	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. <i>Talanta</i> , 2016, 161, 228-237.	2.9	29
47	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. <i>Analytical Methods</i> , 2016, 8, 554-563.	1.3	10
48	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. <i>Talanta</i> , 2016, 154, 23-30.	2.9	63
49	Dual ultrasonic-assisted dispersive liquid-liquid microextraction coupled with microwave-assisted derivatization for simultaneous determination of 20(S)-protopanaxadiol and 20(S)-protopanaxatriol by ultra high performance liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2016, 1437, 49-57.	1.8	37
50	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 liquid-liquid microextraction with the aid of experimental design methodology. <i>Food Chemistry</i> , 2016, 192, 98-106.	4.2	61
51	Rapid analysis of biogenic amines from rice wine with isotope-coded derivatization followed by high performance liquid chromatography-tandem mass spectrometry. <i>Food Chemistry</i> , 2016, 192, 388-394.	4.2	33
52	Determination of phthalate esters in environmental water by magnetic Zeolitic Imidazolate Framework-8 solid-phase extraction coupled with high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2015, 1409, 46-52.	1.8	108
53	Accurate Analysis and Evaluation of Acidic Plant Growth Regulators in Transgenic and Nontransgenic Edible Oils with Facile Microwave-Assisted Extraction- <i>Derivatization</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 8058-8067.	2.4	6
54	A simple and sensitive HPLC method based on pre-column fluorescence labelling for multiple classes of plant growth regulator determination in food samples. <i>Food Chemistry</i> , 2015, 170, 123-130.	4.2	48

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55	Development of an Efficient HPLC Fluorescence Detection Method for Brassinolide by Ultrasonic-Assisted Dispersive Liquid-Liquid Microextraction Coupled with Derivatization. <i>Chromatographia</i> , 2014, 77, 1653-1660.	0.7	22
56	Development of ultrasonic-assisted closed in-syringe extraction and derivatization for the determination of labile abietic acid and dehydroabietic acid in cosmetics. <i>Journal of Chromatography A</i> , 2014, 1371, 20-29.	1.8	12
57	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. <i>Analytical Methods</i> , 2014, 6, 1135-1141.	1.3	3
58	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)phenylamine and its application for determination of aldehydes in selected aquatic products by liquid chromatography-tandem mass spectrometry. <i>Talanta</i> , 2014, 120, 84-93.	2.9	25
59	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. <i>Journal of Chromatography A</i> , 2014, 1352, 8-19.	1.8	16
60	A Review on Differential Isotope-coded Derivatization Reagents for LC-API-MS Analyses. <i>Current Analytical Chemistry</i> , 2014, 10, 381-392.	0.6	8
61	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. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2013, 36, 2107-2124.	0.5	2
62	QUANTITATIVE ANALYSIS OF FATTY ACIDS FROM SNOW LOTUS ( <i>Saussurea</i> ) SPECIES USING HPLC WITH FLUORESCENCE DETECTION AND ATMOSPHERIC CHEMICAL IONIZATION-MASS SPECTROMETRY. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2012, 35, 1882-1894.	0.5	2
63	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. <i>Chromatographia</i> , 2012, 75, 1107-1116.	0.7	1
64	DETERMINATION AND IDENTIFICATION OF FATTY ACIDS IN MICROLULA SIKKIMENSIS SEED OIL USING 1,2-BENZOCARBAZOLE-9-ETHYL-P-TOLUENESULFONATE AS A NOVEL LABELING REAGENT BY HPLC WITH FLUORESCENCE DETECTION AND APCI-MS. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2012, 35, 2066-2080.	0.5	0
65	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. <i>Chromatographia</i> , 2012, 75, 571-583.	0.7	10
66	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. <i>Talanta</i> , 2011, 85, 1088-1099.	2.9	29
67	LC Determination of Trace Biogenic Amines in Foods Samples with Fluorescence Detection and MS Identification. <i>Chromatographia</i> , 2011, 73, 43-50.	0.7	9
68	Compositional and Antioxidant Activity Analysis of <i>Zanthoxylum bungeanum</i> Seed Oil Obtained by Supercritical CO <sub>2</sub> Fluid Extraction. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2011, 88, 23-32.	0.8	55
69	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 <i>Lycium barbarum</i> seed oil. <i>Food Chemistry</i> , 2011, 125, 1365-1372.	4.2	55
70	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. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 1367-1374.	1.2	8
71	Determination of Free Fatty Acids in Tibet Folk Medicine <i>Potentilla anserina</i> L. Using a New Labeling Reagent by LC with Fluorescence Detection and Identification with Online Atmospheric Chemical Ionization-MS Identification. <i>Chromatographia</i> , 2010, 71, 623-631.	0.7	3
72	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. <i>Chromatographia</i> , 2010, 71, 789-797.	0.7	13

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73	LC-Fluorescence Detection Analysis of Amino Acids from <i>Stellera chamaejasme</i> L. Using 2-[2-(Dibenzocarbazole)-ethoxy] Ethyl Chloroformate as Labeling Reagent. <i>Chromatographia</i> , 2010, 72, 641-649.	0.7	5
74	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. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2010, 33, 390-404.	0.5	3
75	HPLC-FLUORIMETRIC METHOD FOR ANALYSIS OF FREE FATTY ACIDS IN <i>STELLERA CHAMAEJASMA</i> L. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2010, 33, 859-874.	0.5	4
76	Application of 10-ethyl-acridine-3-sulfonyl chloride for HPLC determination of aliphatic amines in environmental water using fluorescence and APCI-MS. <i>Journal of Separation Science</i> , 2009, 32, 1351-1362.	1.3	22
77	10-Ethyl-acridine-2-sulfonyl Chloride: A New Derivatization Agent for Enhancement of Atmospheric Pressure Chemical Ionization of Estrogens in Urine. <i>Chromatographia</i> , 2009, 70, 45-55.	0.7	21
78	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. <i>Chromatographia</i> , 2009, 70, 1055-1063.	0.7	4
79	LC-DAD-ESI-MS Characterization of Carbohydrates Using a New Labeling Reagent. <i>Chromatographia</i> , 2008, 68, 893-902.	0.7	9