

# Bernhard Welz

## List of Publications by Year in descending order

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100  
papers

4,174  
citations

109321

35  
h-index

138484

58  
g-index

107  
all docs

107  
docs citations

107  
times ranked

1939  
citing authors

#	ARTICLE	IF	CITATIONS
1	The use of Ca + Pd + Zr as modifiers in the determination of sulfur by HR-CS GF MAS with solid sampling. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 498-503.	3.0	5
2	Iodine determination by high-resolution continuum source molecular absorption spectrometry – A comparison between potential molecules. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 153, 42-49.	2.9	4
3	Phytoremediation potential of <i>Ulva ohnoi</i> (Chlorophyta): Influence of temperature and salinity on the uptake efficiency and toxicity of cadmium. <i>Ecotoxicology and Environmental Safety</i> , 2019, 174, 334-343.	6.0	22
4	Effective and High-Throughput Analytical Methodology for the Determination of Lead and Cadmium in Water Samples by Disposable Pipette Extraction Coupled with High-Resolution Continuum Source Graphite Furnace Atomic Absorption Spectrometry (HR-CS GF AAS). <i>Analytical Letters</i> , 2019, 52, 2133-2149.	1.8	19
5	Investigation of spectral interference in the determination of Pb in road dust using high-resolution continuum source graphite furnace atomic absorption spectrometry and direct solid sample analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 593-602.	3.0	11
6	Determination of fluorine in copper concentrate via high-resolution graphite furnace molecular absorption spectrometry and direct solid sample analysis – Comparison of three target molecules. <i>Talanta</i> , 2018, 176, 178-186.	5.5	19
7	Determination of Cr, Cu and Pb in industrial waste of oil shale using high-resolution continuum source graphite furnace atomic absorption spectrometry and direct solid sample analysis. <i>Analytical Methods</i> , 2018, 10, 3645-3653.	2.7	7
8	A systematic look at the carbon monosulfide molecule and chemical modifiers for the determination of sulfur by HR-CS GF MAS. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1394-1401.	3.0	11
9	Determination of arsenic in agricultural soil samples using High-resolution continuum source graphite furnace atomic absorption spectrometry and direct solid sample analysis. <i>Talanta</i> , 2018, 188, 722-728.	5.5	37
10	A comparison of laser ablation-inductively coupled plasma-mass spectrometry and high-resolution continuum source graphite furnace molecular absorption spectrometry for the direct determination of bromine in polymers. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 132, 50-55.	2.9	13
11	Investigation of chemical modifiers for the determination of cadmium and chromium in fish oil and lipid matrices using HR-CS GF AAS and a simple “dilute-and-shoot” approach. <i>Microchemical Journal</i> , 2017, 133, 175-181.	4.5	19
12	Development of analytical methods for the determination of copper and manganese in infant formula using high resolution continuum source graphite furnace atomic absorption spectrometry and direct solid sample analysis. <i>Analytical Methods</i> , 2017, 9, 2321-2327.	2.7	17
13	Development of a fast screening method for the direct determination of chlorinated persistent organic pollutants in fish oil by high-resolution continuum source graphite furnace molecular absorption spectrometry. <i>Food Control</i> , 2017, 78, 456-462.	5.5	11
14	Determination of cadmium, chromium and copper in vegetables of the Solanaceae family using high-resolution continuum source graphite furnace atomic absorption spectrometry and direct solid sample analysis. <i>Analytical Methods</i> , 2017, 9, 329-337.	2.7	17
15	A novel extraction-based procedure for the determination of cadmium in marine macro-algae using HR-CS GF AAS. <i>Analytical Methods</i> , 2017, 9, 5400-5406.	2.7	3
16	Arsenic containing medium and long chain fatty acids in marine fish oil identified as degradation products using reversed-phase HPLC-ICP-MS/ESI-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1836-1845.	3.0	27
17	Investigation of chemical modifiers for the direct determination of arsenic in fish oil using high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Talanta</i> , 2016, 150, 142-147.	5.5	24
18	A simple sample preparation procedure for the fast screening of selenium species in soil samples using alkaline extraction and hydride-generation graphite furnace atomic absorption spectrometry. <i>Microchemical Journal</i> , 2016, 125, 50-55.	4.5	21

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19	Fluorine in eye shadow: Development of method using high-resolution continuum source graphite furnace molecular absorption spectrometry via calcium mono-fluoride with direct solid sample introduction. <i>Microchemical Journal</i> , 2016, 124, 410-415.	4.5	24
20	Determination of sulfur in crude oil using high-resolution continuum source molecular absorption spectrometry of the SnS molecule in a graphite furnace. <i>Talanta</i> , 2016, 146, 203-208.	5.5	24
21	Application of direct solid sample analysis for the determination of chlorine in biological materials using electrothermal vaporization inductively coupled plasma mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 105, 12-17.	2.9	24
22	Fluorine determination in coal using high-resolution graphite furnace molecular absorption spectrometry and direct solid sample analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 105, 18-24.	2.9	22
23	Application of disposable starch-based platforms for sample introduction and determination of refractory elements using graphite furnace atomic absorption spectrometry and direct solid sample analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 381-388.	3.0	9
24	Investigation of chemical modifiers for sulfur determination in diesel fuel samples by high-resolution continuum source graphite furnace molecular absorption spectrometry using direct analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 108, 68-74.	2.9	16
25	Determination of chlorine in coal via the SrCl molecule using high-resolution graphite furnace molecular absorption spectrometry and direct solid sample analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 114, 46-50.	2.9	22
26	Direct solid sample analysis with graphite furnace atomic absorption spectrometry – A fast and reliable screening procedure for the determination of inorganic arsenic in fish and seafood. <i>Talanta</i> , 2015, 134, 224-231.	5.5	26
27	Determination of fluorine in plant materials via calcium mono-fluoride using high-resolution graphite furnace molecular absorption spectrometry with direct solid sample introduction. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1564-1569.	3.0	31
28	Method development for the determination of Cd, Cu, Ni and Pb in PM2.5 particles sampled in industrial and urban areas of Greater Cairo, Egypt, using high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Microchemical Journal</i> , 2014, 113, 4-9.	4.5	37
29	Investigation of chemical modifiers for the determination of lead in fertilizers and limestone using graphite furnace atomic absorption spectrometry with Zeeman-effect background correction and slurry sampling. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 92, 1-8.	2.9	28
30	Strontium mono-chloride – A new molecule for the determination of chlorine using high-resolution graphite furnace molecular absorption spectrometry and direct solid sample analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 102, 1-6.	2.9	26
31	Simultaneous determination of Mo and Ni in wine and soil amendments by HR-CS GF AAS. <i>Analytical Methods</i> , 2014, 6, 4247-4256.	2.7	17
32	Simultaneous determination of bromine and chlorine in coal using electrothermal vaporization inductively coupled plasma mass spectrometry and direct solid sample analysis. <i>Analytica Chimica Acta</i> , 2014, 852, 82-87.	5.4	25
33	Investigation of spectral interferences in the determination of lead in fertilizers and limestone samples using high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 101, 213-219.	2.9	19
34	Method development for the determination of bromine in coal using high-resolution continuum source graphite furnace molecular absorption spectrometry and direct solid sample analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 96, 33-39.	2.9	23
35	Determination of selenium in soil samples using high-resolution continuum source graphite furnace atomic absorption spectrometry and direct solid sample analysis. <i>Analytical Methods</i> , 2014, 6, 2870-2875.	2.7	18
36	Determination of chromium and antimony in polymers from electrical and electronic equipment using high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Analytical Methods</i> , 2013, 5, 6941.	2.7	11

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37	Determination of sulfur in coal using direct solid sampling and high-resolution continuum source molecular absorption spectrometry of the CS molecule in a graphite furnace. <i>Talanta</i> , 2013, 106, 368-374.	5.5	39
38	Sequential determination of Cd and Cr in biomass samples and their ashes using high-resolution continuum source graphite furnace atomic absorption spectrometry and direct solid sample analysis. <i>Talanta</i> , 2013, 115, 55-60.	5.5	34
39	Effect of magnesium acetylacetonate on the signal of organic forms of vanadium in graphite furnace atomic absorption spectrometry. <i>Talanta</i> , 2013, 103, 66-74.	5.5	4
40	Comparison of three different sample preparation procedures for the determination of traffic-related elements in airborne particulate matter collected on glass fiber filters. <i>Talanta</i> , 2012, 88, 689-695.	5.5	30
41	Prof. Reinaldo Calixto de Campos. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 69, 1.	2.9	0
42	Method development and optimization for the determination of selenium in bean and soil samples using hydride generation electrothermal atomic absorption spectrometry. <i>Talanta</i> , 2011, 85, 1350-1356.	5.5	42
43	Determination of fluorine in tea using high-resolution molecular absorption spectrometry with electrothermal vaporization of the calcium mono-fluoride CaF. <i>Talanta</i> , 2011, 85, 2681-2685.	5.5	77
44	Method development for the determination of cadmium in fertilizer samples using high-resolution continuum source graphite furnace atomic absorption spectrometry and slurry sampling. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011, 66, 529-535.	2.9	47
45	A fast and accurate method for the determination of total and soluble fluorine in toothpaste using high-resolution graphite furnace molecular absorption spectrometry and its comparison with established techniques. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011, 54, 1040-1046.	2.8	61
46	Direct determination of arsenic in petroleum derivatives by graphite furnace atomic absorption spectrometry: A comparison between filter and platform atomizers. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011, 66, 345-351.	2.9	16
47	Determination of mercury in airborne particulate matter collected on glass fiber filters using high-resolution continuum source graphite furnace atomic absorption spectrometry and direct solid sampling. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011, 66, 378-382.	2.9	32
48	High-Resolution Continuum Source Atomic and Molecular Absorption Spectrometry—A Review. <i>Applied Spectroscopy Reviews</i> , 2010, 45, 327-354.	6.7	87
49	Unusual calibration curves observed for iron using high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 258-262.	2.9	9
50	Trace element status of activated charcoals and carbon black: Influence on thermal stability of modified lyocell solutions. <i>Journal of Applied Polymer Science</i> , 2010, 116, 3408-3418.	2.6	3
51	Optimization of fluorine determination via the molecular absorption of gallium mono-fluoride in a graphite furnace using a high-resolution continuum source spectrometer. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 864-869.	2.9	76
52	Simultaneous determination of Cd and Fe in sewage sludge by high-resolution continuum source electrothermal atomic absorption spectrometry with slurry sampling. <i>Microchemical Journal</i> , 2010, 95, 333-336.	4.5	38
53	Determination of cadmium and lead in plastic material from waste electronic equipment using solid sampling graphite furnace atomic absorption spectrometry. <i>Microchemical Journal</i> , 2010, 96, 102-107.	4.5	47
54	Determination of sulfur in biological samples using high-resolution molecular absorption spectrometry in a graphite furnace with direct solid sampling. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1039.	3.0	35

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55	Simultaneous determination of cobalt and vanadium in undiluted crude oil using high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 590.	3.0	35
56	Determination of heavy metals in activated charcoals and carbon black for Lyocell fiber production using direct solid sampling high-resolution continuum source graphite furnace atomic absorption and inductively coupled plasma optical emission spectrometry. <i>Talanta</i> , 2010, 81, 980-987.	5.5	39
57	Determination of antimony in airborne particulate matter collected on filters using direct solid sampling and high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 580-584.	3.0	21
58	Determination of silver in geological samples using high-resolution continuum source electrothermal atomic absorption spectrometry and direct solid sampling. <i>Mikrochimica Acta</i> , 2009, 167, 21-26.	5.0	24
59	Direct and simultaneous determination of Cr and Fe in crude oil using high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 537-543.	2.9	60
60	Determination of phosphorus, sulfur and the halogens using high-temperature molecular absorption spectrometry in flames and furnaces—A review. <i>Analytica Chimica Acta</i> , 2009, 647, 137-148.	5.4	134
61	Comparison of direct sampling and emulsion analysis using a filter furnace for the determination of lead in crude oil by graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 530-536.	2.9	32
62	Simultaneous determination of Cd and Fe in grain products using direct solid sampling and high-resolution continuum source electrothermal atomic absorption spectrometry. <i>Talanta</i> , 2009, 78, 577-583.	5.5	45
63	Correction of structured molecular background by means of high-resolution continuum source electrothermal atomic absorption spectrometry—Determination of antimony in sediment reference materials using direct solid sampling. <i>Talanta</i> , 2009, 80, 846-852.	5.5	38
64	Simultaneous Determination of Cd and Fe in Beans and Soil of Different Regions of Brazil Using High-Resolution Continuum Source Graphite Furnace Atomic Absorption Spectrometry and Direct Solid Sampling. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 10089-10094.	5.2	39
65	Investigation of artifacts caused by deuterium background correction in the determination of phosphorus by electrothermal atomization using high-resolution continuum source atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 337-348.	2.9	20
66	Sample Preparation for the Determination of Metals in Food Samples Using Spectroanalytical Methods—A Review. <i>Applied Spectroscopy Reviews</i> , 2008, 43, 67-92.	6.7	208
67	Feasibility of using solid sampling graphite furnace atomic absorption spectrometry for speciation analysis of volatile and non-volatile compounds of nickel and vanadium in crude oil. <i>Talanta</i> , 2007, 71, 1877-1885.	5.5	34
68	Atomic spectrometric methods for the determination of metals and metalloids in automotive fuels — A review. <i>Talanta</i> , 2007, 73, 1-11.	5.5	152
69	Method development for the determination of manganese, cobalt and copper in green coffee comparing direct solid sampling electrothermal atomic absorption spectrometry and inductively coupled plasma optical emission spectrometry. <i>Talanta</i> , 2007, 73, 862-869.	5.5	85
70	Investigation of phosphorus atomization using high-resolution continuum source electrothermal atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 429-434.	2.9	21
71	Determination of aluminum in highly concentrated iron samples: Study of interferences using high-resolution continuum source atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 1012-1018.	2.9	20
72	Feasibility of using direct determination of cadmium and lead in fresh meat by electrothermal atomic absorption spectrometry for screening purposes. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 1037-1045.	2.9	23

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73	Feasibility of peak volume, side pixel and multiple peak registration in high-resolution continuum source atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 1222-1230.	2.9	117
74	Progress in direct solid sampling analysis using line source and high-resolution continuum source electrothermal atomic absorption spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 2085-2095.	3.7	98
75	High-resolution continuum source electrothermal atomic absorption spectrometry – An analytical and diagnostic tool for trace analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 873-883.	2.9	58
76	Determination of lead in biological samples by high-resolution continuum source graphite furnace atomic absorption spectrometry with direct solid sampling. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 763.	3.0	56
77	Speciation analysis of volatile and non-volatile vanadium compounds in Brazilian crude oils using high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 2006, 558, 195-200.	5.4	56
78	Feasibility of employing permanent chemical modifiers for the determination of cadmium in coal using slurry sampling electrothermal atomic absorption spectrometry. <i>Microchemical Journal</i> , 2006, 82, 174-182.	4.5	26
79	Determination of mercury in biological samples using solid sampling high-resolution continuum source electrothermal atomization atomic absorption spectrometry with calibration against aqueous standards. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 1321.	3.0	39
80	Determination of Lead in Coal Using Direct Solid Sampling and High-Resolution Continuum Source Graphite Furnace Atomic Absorption Spectrometry. <i>Mikrochimica Acta</i> , 2006, 154, 101-107.	5.0	32
81	Investigation of chemical modifiers for phosphorus in a graphite furnace using high-resolution continuum source atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 934-944.	2.9	36
82	Determination of cobalt in biological samples by line-source and high-resolution continuum source graphite furnace atomic absorption spectrometry using solid sampling or alkaline treatment. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 693-698.	2.9	45
83	Determination of cadmium in coal using solid sampling graphite furnace high-resolution continuum source atomic absorption spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 1835-1841.	3.7	34
84	Palladium as chemical modifier for the stabilization of volatile nickel and vanadium compounds in crude oil using graphite furnace atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 1332.	3.0	43
85	Method development for the determination of thallium in coal using solid sampling graphite furnace atomic absorption spectrometry with continuum source, high-resolution monochromator and CCD array detector. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 841-850.	2.9	68
86	Method development for the determination of nickel in petroleum using line-source and high-resolution continuum-source graphite furnace atomic absorption spectrometry. <i>Microchemical Journal</i> , 2004, 77, 131-140.	4.5	88
87	Optimization of analytical performance of a graphite furnace atomic absorption spectrometer with Zeeman-effect background correction using variable magnetic field strength. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 1663-1678.	2.9	27
88	High-resolution continuum-source atomic absorption spectrometry: what can we expect?. <i>Journal of the Brazilian Chemical Society</i> , 2003, 14, 220-229.	0.6	69
89	Control of spectral and non-spectral interferences in the determination of thallium in river and marine sediments using solid sampling electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 38-45.	3.0	32
90	Investigation of interferences in the determination of thallium in marine sediment reference materials using high-resolution continuum-source atomic absorption spectrometry and electrothermal atomization. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 1043-1055.	2.9	35

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91	Noble metals as permanent chemical modifiers for the determination of mercury in environmental reference materials using solid sampling graphite furnace atomic absorption spectrometry and calibration against aqueous standards. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 2031-2045.	2.9	56
92	Spectral and non-spectral interferences in the determination of thallium in environmental materials using electrothermal atomization and vaporization techniques—a case study. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 1821-1834.	2.9	21
93	Determination of arsenic in sediments, coal and fly ash slurries after ultrasonic treatment by hydride generation atomic absorption spectrometry and trapping in an iridium-treated graphite tube. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 2057-2067.	2.9	51
94	Investigations on the determination of chloride and bromide by furnace atomic non-thermal excitation spectrometry and furnace ionic non-thermal excitation spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1991, 6, 465.	3.0	7
95	Investigations of interferences in graphite furnace atomic absorption spectrometry using a dual-cavity platform. Part 2. Influence of sodium chloride and nickel chloride on the atomisation of lead. <i>Journal of Analytical Atomic Spectrometry</i> , 1987, 2, 793.	3.0	52
96	Palladium and magnesium nitrates, a more universal modifier for graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1986, 41, 1157-1165.	2.9	344
97	Investigations of interferences in graphite furnace atomic-absorption spectrometry using a dual cavity platform. Part 1. Influence of nickel chloride on the determination of antimony. <i>Analyst, The</i> , 1985, 110, 459.	3.5	52
98	Solid sampling in graphite furnace atomic-absorption spectrometry using the cup-in-tube technique. <i>Analyst, The</i> , 1985, 110, 573-577.	3.5	85
99	Improvements in graphite-furnace atomic-absorption microanalysis with solid sampling. <i>Mikrochimica Acta</i> , 1982, 77, 115-125.	5.0	33
100	High-Resolution Continuum Source AAS and its Application to Food Analysis. , 0, , 81-114.		0