

# Mark Cave

## List of Publications by Year in descending order

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126  
papers

4,063  
citations

117453

34  
h-index

133063

59  
g-index

133  
all docs

133  
docs citations

133  
times ranked

3715  
citing authors

#	ARTICLE	IF	CITATIONS
1	Potential fluoride exposure from selected food crops grown in high fluoride soils in the Makueni County, south-eastern Kenya. <i>Environmental Geochemistry and Health</i> , 2022, 44, 4703-4717.	1.8	5
2	Comparison of two non-specific flow-through sequential extraction approaches to identify the physico-chemical partitioning of potentially harmful elements in a certified reference material. <i>Talanta</i> , 2021, 223, 121685.	2.9	2
3	Respiratory bioaccessibility and solid phase partitioning of potentially harmful elements in urban environmental matrices. <i>Science of the Total Environment</i> , 2021, 765, 142791.	3.9	7
4	Application of Bioavailability Measurements in Medical Geology. , 2021, , 235-261.		2
5	Persistent Organic Pollutants in Urban Soils of Central of London, England, UK: Measurement and Spatial Modelling of Black Carbon (BC), Petroleum Hydrocarbons (TPH), Polycyclic Aromatic Hydrocarbons (PAH) and Polychlorinated Biphenyls (PCB). <i>Advances in Environmental and Engineering Research</i> , 2021, 02, 1-1.	0.3	7
6	Modelling and Mapping Total and Bioaccessible Arsenic and Lead in Stoke-on-Trent and Their Relationships with Industry. <i>Geosciences (Switzerland)</i> , 2021, 11, 515.	1.0	1
7	Identifying geogenic and anthropogenic controls on different spatial distribution patterns of aluminium, calcium and lead in urban topsoil of Greater London Authority area. <i>Chemosphere</i> , 2020, 238, 124541.	4.2	16
8	Biogeochemistry of Household Dust Samples Collected from Private Homes of a Portuguese Industrial City. <i>Geosciences (Switzerland)</i> , 2020, 10, 392.	1.0	4
9	Investigating the Geochemical Controls on Pb Bioaccessibility in Urban Agricultural Soils to Inform Sustainable Site Management. <i>Geosciences (Switzerland)</i> , 2020, 10, 398.	1.0	3
10	Incorporating oral bioaccessibility into human health risk assessment due to potentially toxic elements in extractive waste and contaminated soils from an abandoned mine site. <i>Chemosphere</i> , 2020, 255, 126927.	4.2	34
11	Soil-sebum partition coefficients for high molecular weight polycyclic aromatic hydrocarbons (HMW-PAH). <i>Journal of Hazardous Materials</i> , 2020, 398, 122633.	6.5	3
12	Exploration of spatially varying relationships between Pb and Al in urban soils of London at the regional scale using geographically weighted regression (GWR). <i>Journal of Hazardous Materials</i> , 2020, 393, 122377.	6.5	32
13	Naturally Occurring Potentially Harmful Elements in Groundwater in Makueni County, South-Eastern Kenya: Effects on Drinking Water Quality and Agriculture. <i>Geosciences (Switzerland)</i> , 2020, 10, 62.	1.0	11
14	Comparison of methods for addressing the point-to-area data transformation to make data suitable for environmental, health and socio-economic studies. <i>Science of the Total Environment</i> , 2019, 689, 797-807.	3.9	13
15	Factors governing the solid phase distribution of Cr, Cu and As in contaminated soil after 40 years of ageing. <i>Science of the Total Environment</i> , 2019, 652, 744-754.	3.9	23
16	Mineralogy, solid-phase fractionation and chemical extraction to assess the mobility and availability of arsenic in an urban environment. <i>Applied Geochemistry</i> , 2019, 100, 244-257.	1.4	8
17	Indoor radon measurements in south west England explained by topsoil and stream sediment geochemistry, airborne gamma-ray spectroscopy and geology. <i>Journal of Environmental Radioactivity</i> , 2018, 181, 152-171.	0.9	16
18	Spatial distribution patterns of phosphorus in top-soils of Greater London Authority area and their natural and anthropogenic factors. <i>Applied Geochemistry</i> , 2018, 88, 213-220.	1.4	18

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19	Using Local Moran's I to identify contamination hotspots of rare earth elements in urban soils of London. <i>Applied Geochemistry</i> , 2018, 88, 167-178.	1.4	74
20	The effect of lead in soil on crime deprivation in Derby, Leicester and Nottingham. <i>Applied Geochemistry</i> , 2018, 88, 198-212.	1.4	2
21	In vitro prediction of polycyclic aromatic hydrocarbon bioavailability of 14 different incidentally ingested soils in juvenile swine. <i>Science of the Total Environment</i> , 2018, 618, 682-689.	3.9	12
22	Modelling the Atmospheric Concentration and Deposition of Pb and Cd in the UK. <i>Springer Proceedings in Complexity</i> , 2018, , 381-385.	0.2	0
23	The Link between Soil Geochemistry in South-West England and Human Exposure to Soil Arsenic. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 570.	0.8	4
24	Lead and zinc concentrations in household dust and toenails of the residents (Estarreja, Portugal): a source-pathway-fate model. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 1210-1224.	1.7	18
25	An overview of research and development themes in the measurement and occurrences of polyaromatic hydrocarbons in dusts and particulates. <i>Journal of Hazardous Materials</i> , 2018, 360, 373-390.	6.5	23
26	Linkage of national soil quality measurements to primary care medical records in England and Wales: a new resource for investigating environmental impacts on human health. <i>Population Health Metrics</i> , 2018, 16, 12.	1.3	0
27	The relationship between historical development and potentially toxic element concentrations in urban soils. <i>Environmental Pollution</i> , 2017, 220, 1036-1049.	3.7	46
28	Geochemistry and related studies of Clyde Estuary sediments. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2017, 108, 269-288.	0.3	1
29	In Vitro Investigations of Human Bioaccessibility from Reference Materials Using Simulated Lung Fluids. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 112.	1.2	94
30	Mercury, n-alkane and unresolved complex mixture hydrocarbon pollution in surface sediment across the rural-urban-estuarine continuum of the River Clyde, Scotland, UK. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2017, 108, 315-326.	0.3	3
31	Linkage between solid-phase apportionment and bioaccessible arsenic, chromium and lead in soil from Glasgow, Scotland, UK. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2017, 108, 217-230.	0.3	1
32	China's soil and groundwater management challenges: Lessons from the UK's experience and opportunities for China. <i>Environment International</i> , 2016, 91, 196-200.	4.8	47
33	A machine learning approach to geochemical mapping. <i>Journal of Geochemical Exploration</i> , 2016, 167, 49-61.	1.5	94
34	Source and pathway analysis of lead and polycyclic aromatic hydrocarbons in Lisbon urban soils. <i>Science of the Total Environment</i> , 2016, 573, 324-336.	3.9	30
35	New Insights into the Reliability of Automatic Dynamic Methods for Oral Bioaccessibility Testing: A Case Study for BGS102 soil. <i>Environmental Science &amp; Technology</i> , 2016, 50, 9479-9486.	4.6	12
36	Is received dose from ingested soil independent of soil PAH concentrations?â€”Animal model results. <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 2261-2269.	2.2	3

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37	Predicting Polycyclic Aromatic Hydrocarbon Bioavailability to Mammals from Incidentally Ingested Soils Using Partitioning and Fugacity. <i>Environmental Science &amp; Technology</i> , 2016, 50, 1338-1346.	4.6	12
38	A review of the current state of the art of physiologically-based tests for measuring human dermal in vitro bioavailability of polycyclic aromatic hydrocarbons (PAH) in soil. <i>Journal of Hazardous Materials</i> , 2016, 305, 240-259.	6.5	50
39	Investigating relationships between biomarkers of exposure and environmental copper and manganese levels in house dusts from a Portuguese industrial city. <i>Environmental Geochemistry and Health</i> , 2015, 37, 725-744.	1.8	23
40	Measuring the solid-phase fractionation of lead in urban and rural soils using a combination of geochemical survey data and chemical extractions. <i>Environmental Geochemistry and Health</i> , 2015, 37, 779-790.	1.8	8
41	Assessing Fitness for Trial of Deaf Defendants. <i>Psychiatry, Psychology and Law</i> , 2015, 22, 145-156.	0.9	2
42	Measurement and modelling of the ingestion bioaccessibility of polyaromatic hydrocarbons in soils. <i>Environmental Technology and Innovation</i> , 2015, 3, 35-45.	3.0	11
43	The mobility and human oral bioaccessibility of Zn and Pb in urban dusts of Estarreja (N Portugal). <i>Environmental Geochemistry and Health</i> , 2015, 37, 115-131.	1.8	37
44	The effects of lead sources on oral bioaccessibility in soil and implications for contaminated land risk management. <i>Environmental Pollution</i> , 2015, 198, 161-171.	3.7	20
45	Lead bioaccessibility in 12 contaminated soils from China: Correlation to lead relative bioavailability and lead in different fractions. <i>Journal of Hazardous Materials</i> , 2015, 295, 55-62.	6.5	114
46	Linking selective chemical extraction of iron oxyhydroxides to arsenic bioaccessibility in soil. <i>Environmental Pollution</i> , 2015, 207, 256-265.	3.7	33
47	The Solid Phase Distribution and Bioaccessibility of Arsenic, Chromium, and Nickel in Natural Ironstone Soils in the UK. <i>Applied and Environmental Soil Science</i> , 2014, 2014, 1-12.	0.8	10
48	Polycyclic aromatic hydrocarbons (PAH) and polychlorinated biphenyls (PCB) in urban soils of Greater London, UK. <i>Applied Geochemistry</i> , 2014, 51, 303-314.	1.4	174
49	Urban geochemistry of lead in gardens, playgrounds and schoolyards of Lisbon, Portugal: Assessing exposure and risk to human health. <i>Applied Geochemistry</i> , 2014, 44, 45-53.	1.4	35
50	Geochemistry, mineralogy, solid-phase fractionation and oral bioaccessibility of lead in urban soils of Lisbon. <i>Environmental Geochemistry and Health</i> , 2014, 36, 867-881.	1.8	33
51	Mapping trace element deficiency by cokriging from regional geochemical soil data: A case study on cobalt for grazing sheep in Ireland. <i>Geoderma</i> , 2014, 226-227, 64-78.	2.3	32
52	Effects of drying and comminution type on the quantification of Polycyclic Aromatic Hydrocarbons (PAH) in a homogenised gasworks soil and the implications for human health risk assessment. <i>Chemosphere</i> , 2014, 111, 396-404.	4.2	33
53	The importance of solid-phase distribution on the oral bioaccessibility of Ni and Cr in soils overlying Palaeogene basalt lavas, Northern Ireland. <i>Environmental Geochemistry and Health</i> , 2013, 35, 553-567.	1.8	34
54	Lead bioaccessibility in topsoils from lead mineralisation and urban domains, UK. <i>Environmental Pollution</i> , 2013, 178, 278-287.	3.7	31

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55	Methodology for the determination of normal background concentrations of contaminants in English soil. <i>Science of the Total Environment</i> , 2013, 454-455, 604-618.	3.9	132
56	Effect of weathering product assemblages on Pb bioaccessibility in mine waste: implications for risk management. <i>Environmental Science and Pollution Research</i> , 2013, 20, 7699-7710.	2.7	19
57	Regional variations of basal cell carcinoma incidence in the U.K. using The Health Improvement Network database (2004-10). <i>British Journal of Dermatology</i> , 2013, 169, 1093-1099.	1.4	24
58	Measurement modelling and mapping of arsenic bioaccessibility in Northampton, United Kingdom. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2013, 48, 629-640.	0.9	19
59	Variability of bioaccessibility results using seventeen different methods on a standard reference material, NIST 2710. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2013, 48, 641-655.	0.9	54
60	Dialectical behavioral therapy informed treatment with Deaf mental health consumers: an Australian pilot program. <i>Australasian Psychiatry</i> , 2012, 20, 425-428.	0.4	6
61	Bedrock detection beneath river terrace deposits using three-dimensional electrical resistivity tomography. <i>Geomorphology</i> , 2012, 177-178, 17-25.	1.1	72
62	In Vivo Validation of the Unified BARGE Method to Assess the Bioaccessibility of Arsenic, Antimony, Cadmium, and Lead in Soils. <i>Environmental Science &amp; Technology</i> , 2012, 46, 6252-6260.	4.6	293
63	Bioaccessibility of trace elements in soils in Northern Ireland. <i>Science of the Total Environment</i> , 2012, 433, 398-417.	3.9	64
64	Anthropogenic and geogenic impacts on arsenic bioaccessibility in UK topsoils. <i>Science of the Total Environment</i> , 2012, 435-436, 21-29.	3.9	29
65	Assessment of a geochemical extraction procedure to determine the solid phase fractionation and bioaccessibility of potentially harmful elements in soils: A case study using the NIST 2710 reference soil. <i>Analytica Chimica Acta</i> , 2012, 722, 43-54.	2.6	28
66	The application of an in vitro gastrointestinal extraction to assess the oral bioaccessibility of polycyclic aromatic hydrocarbons in soils from a former industrial site. <i>Analytica Chimica Acta</i> , 2012, 735, 54-61.	2.6	30
67	Modelling lead bioaccessibility in urban topsoils based on data from Glasgow, London, Northampton and Swansea, UK. <i>Environmental Pollution</i> , 2012, 171, 265-272.	3.7	51
68	Oral Bioavailability. , 2011, , 287-324.		11
69	An inter-laboratory trial of the unified BARGE bioaccessibility method for arsenic, cadmium and lead in soil. <i>Science of the Total Environment</i> , 2011, 409, 4016-30.	3.9	255
70	A lead isotopic study of the human bioaccessibility of lead in urban soils from Glasgow, Scotland. <i>Science of the Total Environment</i> , 2011, 409, 4958-4965.	3.9	89
71	Determination of polycyclic aromatic hydrocarbons in urban street dust: Implications for human health. <i>Chemosphere</i> , 2011, 83, 970-977.	4.2	104
72	Soil radium, soil gas radon and indoor radon empirical relationships to assist in post-closure impact assessment related to near-surface radioactive waste disposal. <i>Journal of Environmental Radioactivity</i> , 2011, 102, 221-234.	0.9	10

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73	Bedrock Detection and Mineral Thickness Assessment Using 3D Electrical Resistivity Tomography (ERT). , 2011, , .		0
74	An investigation into the occurrence and distribution of polycyclic aromatic hydrocarbons in two soil size fractions at a former industrial site in NE England, UK using inÂsitu PFEâ€“GCâ€“MS. Environmental Geochemistry and Health, 2010, 32, 553-565.	1.8	20
75	Preface. Environmental Geochemistry and Health, 2010, 32, 461-462.	1.8	0
76	Determination of the bioaccessibility of chromium in Glasgow soil and the implications for human health risk assessment. Science of the Total Environment, 2010, 409, 267-277.	3.9	122
77	Comparison of Batch Mode and Dynamic Physiologically Based Bioaccessibility Tests for PAHs in Soil Samples. Environmental Science & Technology, 2010, 44, 2654-2660.	4.6	70
78	Medical Geology in Europe. , 2010, , 259-301.		5
79	A structured approach to the measurement of uncertainty in 3D geological models. Quarterly Journal of Engineering Geology and Hydrogeology, 2009, 42, 95-105.	0.8	40
80	Earthworms and inÂvitro physiologically-based extraction tests: complementary tools for a holistic approach towards understanding risk at arsenic-contaminated sites. Environmental Geochemistry and Health, 2009, 31, 273-282.	1.8	29
81	Medical geology â€” the European perspective. Central European Geology, 2008, 51, 133-151.	0.4	0
82	Arsenic speciation and mobility in mine wastes from a copperâ€“arsenic mine in Devon, UK: a SEM, XAS, sequential chemical extraction study. Trace Metals and Other Contaminants in the Environment, 2007, , 441-471.	0.1	9
83	Estimation of the bioaccessible arsenic fraction in soils using near infrared spectroscopy. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2007, 42, 1293-1301.	0.9	13
84	A Study of the relationship between arsenic bioaccessibility and its solid-phase distribution in soils from Wellingborough, UK. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2007, 42, 1303-1315.	0.9	60
85	Comparison of five in vitro digestion models to in vivo experimental results: Lead bioaccessibility in the human gastrointestinal tract. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2007, 42, 1203-1211.	0.9	154
86	Arsenic speciation and mobility in mine wastes from a copperâ€“arsenic mine in Devon, UK: a SEM, XAS, sequential chemical extraction study. , 2007, , 441-471.		0
87	Trace metal distribution in the Arosa estuary (N.W. Spain): The application of a recently developed sequential extraction procedure for metal partitioning. Analytica Chimica Acta, 2006, 557, 344-352.	2.6	17
88	Preliminary Assessment of a Unified Bioaccessibility Method for Potentially Harmful Elements in Soils. Epidemiology, 2006, 17, S39.	1.2	14
89	Bioaccessibility of arsenic in soils developed over Jurassic ironstones in eastern England. Environmental Geochemistry and Health, 2005, 27, 121-130.	1.8	63
90	Evaluation of a method for identification of host physico-chemical phases for trace metals and measurement of their solid-phase partitioning in soil samples by nitric acid extraction and chemometric mixture resolution. Geochemistry: Exploration, Environment, Analysis, 2004, 4, 71-86.	0.5	48

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91	Investigating multi-element soil geochemical signatures and their potential for use in forensic studies. Geological Society Special Publication, 2004, 232, 197-206.	0.8	15
92	The effect of humic acids on the sequential extraction of metals in soils and sediments using ICP-AES and chemometric analysis. Journal of Environmental Monitoring, 2003, 5, 929-934.	2.1	14
93	Arsenic in UK soils: reassessing the risk. Proceedings of the Institution of Civil Engineers: Civil Engineering, 2002, 150, 187-190.	0.3	3
94	Atomic Spectrometry Update. Environmental analysis. Journal of Analytical Atomic Spectrometry, 2001, 16, 194-235.	1.6	41
95	Environmental analysis. Journal of Analytical Atomic Spectrometry, 2000, 15, 181-235.	1.6	42
96	Evaluation of the containment properties of geological and engineered barriers by pore-water extraction and characterization. Geological Society Special Publication, 1999, 157, 265-273.	0.8	1
97	Determination of cadmium and lead in human urine by STAT-FAAS after enrichment on activated carbon. Journal of Analytical Atomic Spectrometry, 1999, 14, 279-352.	1.6	15
98	Atomic Spectrometry Update—Environmental analysis. Journal of Analytical Atomic Spectrometry, 1998, 13, 1R.	1.6	25
99	Improvement of short-term precision in inductively coupled plasma atomic emission spectrometry by principal component analysis modelling. Journal of Analytical Atomic Spectrometry, 1998, 13, 125-129.	1.6	5
100	Alteration of Repository Structural Materials Within the First Few Years. Materials Research Society Symposia Proceedings, 1997, 506, 503.	0.1	2
101	Measurement of Trace Element Distributions in Soils and Sediments Using Sequential Leach Data and a Non-specific Extraction System With Chemometric Data Processing. Analyst, The, 1997, 122, 1211-1221.	1.7	39
102	Determination of Trace Metal Distributions in the Iron Oxide Phases of Red Bed Sandstones by Chemometric Analysis of Whole Rock and Selective Leachate Data. Analyst, The, 1997, 122, 501-512.	1.7	17
103	Determination of chlorine and bromine in rocks by alkaline fusion with ion chromatography detection. Journal of Chromatography A, 1997, 770, 93-98.	1.8	37
104	Atomic Spectrometry Update—Environmental Analysis. Journal of Analytical Atomic Spectrometry, 1996, 11, 19R-66R.	1.6	6
105	Atomic Spectrometry Update—Environmental Analysis. Journal of Analytical Atomic Spectrometry, 1995, 10, 9R-48R.	1.6	9
106	Reconstruction of in situ pore-water compositions obtained by aqueous leaching of drill core: an evaluation using multivariate statistical deconvolution. Analyst, The, 1995, 120, 1341.	1.7	7
107	Atomic Spectrometry Update—Environmental Analysis. Journal of Analytical Atomic Spectrometry, 1994, 9, 25R-71R.	1.6	9
108	Chemical Characterisation of Core Pore-Waters for Deep Borehole Investigations at Sellafield, Cumbria. Mineralogical Magazine, 1994, 58A, 158-159.	0.6	2

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109	Atomic Spectrometry Update—Environmental Analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 1993, 8, 1R-44R.	1.6	22
110	The reaction kinetics of laumontite under hydrothermal conditions. <i>European Journal of Mineralogy</i> , 1993, 5, 523-536.	0.4	16
111	Atomic Spectrometry Update—Environmental Analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 1992, 7, 1R-51R.	1.6	11
112	A natural analogue of high pH cement pore waters from the Maqarin area of northern Jordan. I: introduction to the site. <i>Journal of Geochemical Exploration</i> , 1992, 46, 117-132.	1.5	72
113	Atomic Spectrometry Update—Environmental Analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 1991, 6, 1R-40R.	1.6	9
114	The Effect of Microbial Activity on the Near and Far Fields of a Swiss Type b Repository. <i>Materials Research Society Symposia Proceedings</i> , 1991, 257, 729.	0.1	3
115	Atomic Spectrometry Update—Environmental Analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 1990, 5, 1R-55R.	1.6	9
116	Simplex optimization of response-time-limited systems. <i>Analytica Chimica Acta</i> , 1989, 223, 403-410.	2.6	0
117	Feasibility study of the determination of iodide, tin, arsenic, selenium and hydrogen carbonate in groundwater by inductively coupled plasma atomic emission spectrometry using a membrane gas-liquid separator. <i>Journal of Analytical Atomic Spectrometry</i> , 1989, 4, 223.	1.6	28
118	Results of the Oman Analogue Study. <i>Radiochimica Acta</i> , 1988, 44-45, 311-316.	0.5	19
119	Hydrothermal alteration of granite by meteoric fluid: an example from the Carnmenellis Granite, United Kingdom. <i>Contributions To Mineralogy and Petrology</i> , 1987, 96, 391-405.	1.2	47
120	An improved skmplex algorithm for dealing with boundary conditions. <i>Analytica Chimica Acta</i> , 1986, 181, 107-116.	2.6	10
121	The Origin of Saline Groundwaters in Granitic Rocks: Evidence From Hydrothermal Experiments. <i>Materials Research Society Symposia Proceedings</i> , 1985, 50, 121.	0.1	4
122	Comparison of simplex algorithms. <i>Analytica Chimica Acta</i> , 1985, 175, 231-237.	2.6	26
123	A study of pneumatic nebulisation systems for inductively coupled plasma emission spectrometry. <i>Analyst</i> , 1982, 107, 172.	1.7	81
124	Research and Development Topics in Analytical Chemistry. <i>Analytical Proceedings</i> , 1981, 18, 7.	0.4	3
125	A versatile new torch for inductively coupled plasma spectrometry. <i>Analytica Chimica Acta</i> , 1980, 115, 171-178.	2.6	24
126	Simplex optimisation of inductively coupled plasmas. <i>Analytica Chimica Acta</i> , 1980, 115, 179-187.	2.6	63