

# James Barker

## List of Publications by Year in descending order

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73  
papers

2,449  
citations

201674

27  
h-index

206112

48  
g-index

78  
all docs

78  
docs citations

78  
times ranked

3181  
citing authors

#	ARTICLE	IF	CITATIONS
1	Occurrence, fate and transformation of emerging contaminants in water: An overarching review of the field. <i>Environmental Pollution</i> , 2017, 231, 954-970.	7.5	488
2	Ecotoxic pharmaceuticals, personal care products, and other emerging contaminants: A review of environmental, receptor-mediated, developmental, and epigenetic toxicity with discussion of proposed toxicity to humans. <i>Critical Reviews in Environmental Science and Technology</i> , 2016, 46, 336-381.	12.8	149
3	Effect of silicon on gastrointestinal absorption of aluminium. <i>Lancet, The</i> , 1993, 342, 211-212.	13.7	148
4	Misleading measures in Vitamin D analysis: A novel LC-MS/MS assay to account for epimers and isobars. <i>Nutrition Journal</i> , 2011, 10, 46.	3.4	134
5	Spatial (bio)accumulation of pharmaceuticals, illicit drugs, plasticisers, perfluorinated compounds and metabolites in river sediment, aquatic plants and benthic organisms. <i>Environmental Pollution</i> , 2018, 234, 864-875.	7.5	110
6	Aluminium absorption studied by <sup>26</sup> Al tracer. <i>Lancet, The</i> , 1991, 337, 1345.	13.7	85
7	Analysis of anabolic steroids in human hair using LC-MS/MS. <i>Steroids</i> , 2010, 75, 710-714.	1.8	73
8	A validation study comparing accelerator MS and liquid scintillation counting for analysis of <sup>14</sup> C-labelled drugs in plasma, urine and faecal extracts. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2000, 24, 197-209.	2.8	62
9	Spatial distribution of organic contaminants in three rivers of Southern England bound to suspended particulate material and dissolved in water. <i>Science of the Total Environment</i> , 2017, 593-594, 487-497.	8.0	57
10	A novel steroidal saponin glycoside from <i>Fagonia indica</i> induces cell-selective apoptosis or necrosis in cancer cells. <i>European Journal of Pharmaceutical Sciences</i> , 2012, 47, 464-473.	4.0	55
11	Review on molecularly imprinted polymers with a focus on their application to the analysis of protein biomarkers. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 144, 116431.	11.4	54
12	Determination of metal ion content of beverages and estimation of target hazard quotients: a comparative study. <i>Chemistry Central Journal</i> , 2008, 2, 13.	2.6	52
13	Cytotoxicity and bioavailability studies on a decoction of <i>Oldenlandia diffusa</i> and its fractions separated by HPLC. <i>Journal of Ethnopharmacology</i> , 2010, 131, 396-403.	4.1	46
14	Virtue or Pretense? Looking behind Self-Declared Innocence in Doping. <i>PLoS ONE</i> , 2010, 5, e10457.	2.5	44
15	Quantitative analysis of mephedrone using liquid chromatography tandem mass spectroscopy: Application to human hair. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 61, 64-69.	2.8	40
16	Occurrence of anticancer drugs in the aquatic environment: a systematic review. <i>Environmental Science and Pollution Research</i> , 2020, 27, 1339-1347.	5.3	39
17	Recovery and Adaptation From Repeated Intermittent-Sprint Exercise. <i>International Journal of Sports Physiology and Performance</i> , 2014, 9, 489-496.	2.3	35
18	Plants as biomarkers for monitoring heavy metal contaminants on landfill sites using sequential extraction and inductively coupled plasma atomic emission spectrophotometry (ICP-AES). <i>Journal of Environmental Monitoring</i> , 2000, 2, 621-627.	2.1	34

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19	New non-randomised model to assess the prevalence of discriminating behaviour: a pilot study on mephedrone. <i>Substance Abuse Treatment, Prevention, and Policy</i> , 2011, 6, 20.	2.2	33
20	Pharmaceutical Excipients and Drug Metabolism: A Mini-Review. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8224.	4.1	32
21	Incongruence in Doping Related Attitudes, Beliefs and Opinions in the Context of Discordant Behavioural Data: In Which Measure Do We Trust?. <i>PLoS ONE</i> , 2011, 6, e18804.	2.5	32
22	Development of <sup>26</sup> Al accelerator mass spectrometry for biological and toxicological applications. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1990, 52, 540-543.	1.4	31
23	Apoptotic effect of <i>Oldenlandia diffusa</i> on the leukaemic cell line HL60 and human lymphocytes. <i>Journal of Ethnopharmacology</i> , 2007, 114, 290-299.	4.1	30
24	Markers of anthropogenic contamination: A validated method for quantification of pharmaceuticals, illicit drug metabolites, perfluorinated compounds, and plasticisers in sewage treatment effluent and rain runoff. <i>Chemosphere</i> , 2016, 159, 638-646.	8.2	30
25	Behaviour of neonicotinoids in contrasting soils. <i>Journal of Environmental Management</i> , 2020, 276, 111329.	7.8	30
26	Detection of testosterone and epitestosterone in human hair using liquid chromatography-tandem mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 67-68, 154-158.	2.8	29
27	Biological chemistry of aluminium studied using <sup>26</sup> Al and accelerator mass spectrometry. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1994, 92, 463-468.	1.4	28
28	Dietary green and white teas suppress UDP-glucuronosyltransferase UGT2B17 mediated testosterone glucuronidation. <i>Steroids</i> , 2012, 77, 691-695.	1.8	28
29	The Influence of EDTMP-Concentration on the Biodistribution of Radio-Lanthanides and <sup>225</sup> Ac in Tumor-Bearing Mice. <i>Nuclear Medicine and Biology</i> , 1997, 24, 367-372.	0.6	25
30	Simultaneous analysis of antiretroviral drugs abacavir and tenofovir in human hair by liquid chromatography-tandem mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 74, 308-313.	2.8	24
31	Potentially harmful advantage to athletes: a putative connection between UGT2B17 gene deletion polymorphism and renal disorders with prolonged use of anabolic androgenic steroids. <i>Substance Abuse Treatment, Prevention, and Policy</i> , 2010, 5, 7.	2.2	21
32	Lead isotope ratio measurements as indicators for the source of lead poisoning in Mute swans ( <i>Cygnus olor</i> ) wintering in Puck Bay (northern Poland). <i>Chemosphere</i> , 2016, 164, 436-442.	8.2	21
33	Nitric Oxide Ameliorates Plant Metal Toxicity by Increasing Antioxidant Capacity and Reducing Pb and Cd Translocation. <i>Antioxidants</i> , 2021, 10, 1981.	5.1	20
34	Novel acylated steroidal glycosides from <i>Caralluma tuberculata</i> induce caspase-dependent apoptosis in cancer cells. <i>Journal of Ethnopharmacology</i> , 2011, 137, 1189-1196.	4.1	19
35	Determination of diclofenac concentrations in human plasma using a sensitive gas chromatography mass spectrometry method. <i>Chemistry Central Journal</i> , 2016, 10, 52.	2.6	19
36	Zinc Oxide Nanoparticles Improve <i>Pleioblastus pygmaeus</i> Plant Tolerance to Arsenic and Mercury by Stimulating Antioxidant Defense and Reducing the Metal Accumulation and Translocation. <i>Frontiers in Plant Science</i> , 2022, 13, 841501.	3.6	19

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37	Multi-layered antimicrobial synergism of ( <i>E</i> )-caryophyllene with minor compounds, tecleanatalensine B and normelicopine, from the leaves of <i>Vepris gossweileri</i> (L. Verd.) Mziray. <i>Natural Product Research</i> , 2022, 36, 2447-2457.	1.8	18
38	Enzymatic Digestion and Selective Quantification of Underivatized Delta-9-Tetrahydrocannabinol and Cocaine in Human Hair Using Gas Chromatography-Mass Spectrometry. <i>Journal of Analytical Methods in Chemistry</i> , 2012, 2012, 1-7.	1.6	16
39	Development of <sup>26</sup> Al accelerator mass spectrometry for aluminium absorption experiments in humans. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1992, 68, 319-322.	1.4	15
40	Inhibition of Cytochrome P450 Activities by Extracts of <i>Hyptis verticillata</i> Jacq.: Assessment for Potential HERB-Drug Interactions. <i>Molecules</i> , 2018, 23, 430.	3.8	14
41	Co-Application of 24-Epibrassinolide and Titanium Oxide Nanoparticles Promotes <i>Pleioblastus pygmaeus</i> Plant Tolerance to Cu and Cd Toxicity by Increasing Antioxidant Activity and Photosynthetic Capacity and Reducing Heavy Metal Accumulation and Translocation. <i>Antioxidants</i> , 2022, 11, 451.	5.1	14
42	Dietary chelators as antioxidant enzyme mimetics: implications for dietary intervention in neurodegenerative diseases. <i>Behavioural Pharmacology</i> , 2006, 17, 425-430.	1.7	13
43	Closed vessels microwave digestion method for uranium analysis of soils using alpha-spectroscopy. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2007, 273, 281-284.	1.5	13
44	Determination of stanozolol and 3 $\alpha$ -hydroxystanozolol in rat hair, urine and serum using liquid chromatography tandem mass spectrometry. <i>Chemistry Central Journal</i> , 2012, 6, 162.	2.6	13
45	Roadside Drug Testing Approaches. <i>Molecules</i> , 2021, 26, 3291.	3.8	13
46	Significantly Elevated Levels of Plasma Nicotinamide, Pyridoxal, and Pyridoxamine Phosphate Levels in Obese Emirati Population: A Cross-Sectional Study. <i>Molecules</i> , 2020, 25, 3932.	3.8	12
47	Potential chemopreventive, anticancer and anti-inflammatory properties of a refined artocarpin-rich wood extract of <i>Artocarpus heterophyllus</i> Lam.. <i>Scientific Reports</i> , 2021, 11, 6854.	3.3	12
48	Selective cytotoxic and anti-metastatic activity in DU-145 prostate cancer cells induced by <i>Annona muricata</i> L. bark extract and phytochemical, annonacin. <i>BMC Complementary Medicine and Therapies</i> , 2020, 20, 375.	2.7	11
49	Aquatic ecotoxicology of anticancer drugs: A systematic review. <i>Science of the Total Environment</i> , 2021, 800, 149598.	8.0	11
50	Bunched release of gases from oxide targets. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1997, 126, 176-181.	1.4	8
51	Relationship between blood lead levels and physiological stress in mute swans ( <i>Cygnus olor</i> ) in municipal beaches of the southern Baltic. <i>Science of the Total Environment</i> , 2020, 710, 136292.	8.0	8
52	On the Origins of Some Spectroscopic Properties of $\text{Fe}^{2+}$ (the Tetraoxoferrate(VI) Ion) and Its Pourbaix Safe-Space. <i>Molecules</i> , 2021, 26, 5266.	3.8	8
53	AMS measurements to study uptake and distribution of <sup>26</sup> Al in mice and the role of the transferrin receptor in aluminium absorption mechanisms. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1997, 123, 275-278.	1.4	7
54	134 sample multi-cathode source of negative ions by cesium sputtering (134 MC-SNICS)., 1999, , .		5

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55	An in vitro based investigation of the cytotoxic effect of water extracts of the Chinese herbal remedy LD on cancer cells. Chemistry Central Journal, 2009, 3, 12.	2.6	5
56	Detection of stanozolol in environmental waters using liquid chromatography tandem mass spectrometry. Chemistry Central Journal, 2011, 5, 63.	2.6	5
57	Development of AMS at Daresbury for fully-stripped heavy ions. Nuclear Instruments & Methods in Physics Research B, 1990, 52, 290-293.	1.4	4
58	On-line separation of short-lived beryllium isotopes. , 1998, , .		4
59	New approaches for the separation and determination of americium in soil samples using short column chromatography and alpha spectroscopy. Journal of Radioanalytical and Nuclear Chemistry, 2012, 293, 731-734.	1.5	4
60	Quantification of Neonicotinoid Pesticides in Six Cultivable Fish Species from the River Owena in Nigeria and a Template for Food Safety Assessment. Water (Switzerland), 2020, 12, 2422.	2.7	4
61	Validation of an HPLC Method for the Simultaneous Quantification of Metabolic Reaction Products Catalysed by CYP2C11 Enzymes in Rat Liver Microsomes: In Vitro Inhibitory Effect of Salicylic Acid on CYP2C11 Enzyme. Molecules, 2019, 24, 4294.	3.8	3
62	Validation of an HPLC Method for the Simultaneous Quantification of Metabolic Reaction Products Catalysed by CYP2E1 Enzyme Activity: Inhibitory Effect of Cytochrome P450 Enzyme CYP2E1 by Salicylic Acid in Rat Liver Microsomes. Molecules, 2020, 25, 932.	3.8	2
63	Potential Assessment of UGT2B17 Inhibition by Salicylic Acid in Human Supersomes In Vitro. Molecules, 2021, 26, 4410.	3.8	2
64	Potential Effects of Ibuprofen, Remdesivir and Omeprazole on Dexamethasone Metabolism in Control Sprague Dawley Male Rat Liver Microsomes (Drugs Often Used Together Alongside COVID-19) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 37	3.8	2
65	HPLC estimation of iothalamate to measure glomerular filtration rate in humans. Chemistry Central Journal, 2016, 10, 80.	2.6	1
66	Development and Validation of a Novel HPLC Method to Analyse Metabolic Reaction Products Catalysed by the CYP3A2 Isoform: In Vitro Inhibition of CYP3A2 Enzyme Activity by Aspirin (Drugs Often) Tj ETQq0 0 0 rgBT /Overlock 10	3.8	2
67	Fate of Neonicotinoids in the Environment: Why Bees Are Threatened. Handbook of Environmental Chemistry, 2022, , .	0.4	1
68	A Novel Method for Determination of Fenofibric Acid in Human Plasma using HPLC-UV: Application to a Pharmacokinetic Study of New Formulations. Journal of Analytical & Bioanalytical Techniques, 2014, s12, , .	0.6	0
69	Inhibitory Effects of Diclofenac on Steroid Glucuronidation In Vivo Do Not Affect Hair-Based Doping Tests for Stanozolol. Molecules, 2017, 22, 976.	3.8	0
70	False Positive Drug Results by ELISA Associated with Enzymatic Hair Digestion. Open Access Journal of Toxicology, 2017, 1, .	0.3	0
71	Development and Validation of an HPLC-UV Method for the Quantification of 4- <sup>2</sup> -Hydroxydiclofenac Using Salicylic Acid: Future Applications for Measurement of In Vitro Drug-Drug Interaction in Rat Liver Microsomes. Molecules, 2022, 27, 3587.	3.8	0
72	Electrodeposition and determination of nano-scale uranium and plutonium using alpha-spectroscopy. Journal of Radioanalytical and Nuclear Chemistry, 2006, 268, 497-501.	1.5	0

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73	High performance liquid chromatography quadrupole ion trap and gas chromatography/mass spectrometry studies of polyhydroxyalkaloids in bluebells. Rapid Communications in Mass Spectrometry, 1999, 13, 195-200.	1.5	0