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	Multi-layered antimicrobial synergism of (E)-caryophyllene with minor compounds, tecleanatalensine B and normelicopine, from the leaves of Vepris gossweileri (I. Verd.) Mziray. Natural Product Research, 2022, 36, 2447-2457.	1.8	18
2	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	0.8	0
3	Co-Application of 24-Epibrassinolide and Titanium Oxide Nanoparticles Promotes Pleioblastus pygmaeus Plant Tolerance to Cu and Cd Toxicity by Increasing Antioxidant Activity and Photosynthetic Capacity and Reducing Heavy Metal Accumulation and Translocation. Antioxidants, 2022, 11, 451.	5.1	14
4	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 50 617	3.8	0
5	Fate of Neonicotinoids in the Environment: Why Bees Are Threatened. Handbook of Environmental Chemistry, 2022, , .	0.4	1
6	Zinc Oxide Nanoparticles Improve Pleioblastus pygmaeus Plant Tolerance to Arsenic and Mercury by Stimulating Antioxidant Defense and Reducing the Metal Accumulation and Translocation. Frontiers in Plant Science, 2022, 13, 841501.	3.6	19
7	Development and Validation of an HPLC-UV Method for the Quantification of 4â€²-Hydroxydiclofenac Using Salicylic Acid: Future Applications for Measurement of In Vitro Drugâ€“Drug Interaction in Rat Liver Microsomes. Molecules, 2022, 27, 3587.	3.8	0
8	Potential chemopreventive, anticancer and anti-inflammatory properties of a refined artocarpin-rich wood extract of Artocarpus heterophyllus Lam.. Scientific Reports, 2021, 11, 6854.	3.3	12
9	Roadside Drug Testing Approaches. Molecules, 2021, 26, 3291.	3.8	13
10	Potential Assessment of UGT2B17 Inhibition by Salicylic Acid in Human Supersomes In Vitro. Molecules, 2021, 26, 4410.	3.8	2
11	On the Origins of Some Spectroscopic Properties of â€œPurple Ironâ€•(the Tetraoxoferrate(VI) Ion) and Its Pourbaix Safe-Space. Molecules, 2021, 26, 5266.	3.8	8
12	Review on molecularly imprinted polymers with a focus on their application to the analysis of protein biomarkers. TrAC - Trends in Analytical Chemistry, 2021, 144, 116431.	11.4	54
13	Aquatic ecotoxicology of anticancer drugs: A systematic review. Science of the Total Environment, 2021, 800, 149598.	8.0	11
14	Nitric Oxide Ameliorates Plant Metal Toxicity by Increasing Antioxidant Capacity and Reducing Pb and Cd Translocation. Antioxidants, 2021, 10, 1981.	5.1	20
15	Relationship between blood lead levels and physiological stress in mute swans (Cygnus olor) in municipal beaches of the southern Baltic. Science of the Total Environment, 2020, 710, 136292.	8.0	8
16	Occurrence of anticancer drugs in the aquatic environment: a systematic review. Environmental Science and Pollution Research, 2020, 27, 1339-1347.	5.3	39
17	Behaviour of neonicotinoids in contrasting soils. Journal of Environmental Management, 2020, 276, 111329.	7.8	30
18	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

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19	Significantly Elevated Levels of Plasma Nicotinamide, Pyridoxal, and Pyridoxamine Phosphate Levels in Obese Emirati Population: A Cross-Sectional Study. Molecules, 2020, 25, 3932.	3.8	12
20	Selective cytotoxic and anti-metastatic activity in DU-145 prostate cancer cells induced by Annona muricata L. bark extract and phytochemical, annonacin. BMC Complementary Medicine and Therapies, 2020, 20, 375.	2.7	11
21	Pharmaceutical Excipients and Drug Metabolism: A Mini-Review. International Journal of Molecular Sciences, 2020, 21, 8224.	4.1	32
22	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
23	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
24	Spatial (bio)accumulation of pharmaceuticals, illicit drugs, plasticisers, perfluorinated compounds and metabolites in river sediment, aquatic plants and benthic organisms. Environmental Pollution, 2018, 234, 864-875.	7.5	110
25	Inhibition of Cytochrome P450 Activities by Extracts of Hyptis verticillata Jacq.: Assessment for Potential HERB-Drug Interactions. Molecules, 2018, 23, 430.	3.8	14
26	Spatial distribution of organic contaminants in three rivers of Southern England bound to suspended particulate material and dissolved in water. Science of the Total Environment, 2017, 593-594, 487-497.	8.0	57
27	Occurrence, fate and transformation of emerging contaminants in water: An overarching review of the field. Environmental Pollution, 2017, 231, 954-970.	7.5	488
28	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
29	False Positive Drug Results by ELISA Associated with Enzymatic Hair Digestion. Open Access Journal of Toxicology, 2017, 1, .	0.3	0
30	Lead isotope ratio measurements as indicators for the source of lead poisoning in Mute swans (Cygnus olor) wintering in Puck Bay (northern Poland). Chemosphere, 2016, 164, 436-442.	8.2	21
31	Determination of diclofenac concentrations in human plasma using a sensitive gas chromatography mass spectrometry method. Chemistry Central Journal, 2016, 10, 52.	2.6	19
32	HPLC estimation of iothalamate to measure glomerular filtration rate in humans. Chemistry Central Journal, 2016, 10, 80.	2.6	1
33	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. Chemosphere, 2016, 159, 638-646.	8.2	30
34	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. Critical Reviews in Environmental Science and Technology, 2016, 46, 336-381.	12.8	149
35	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
36	Recovery and Adaptation From Repeated Intermittent-Sprint Exercise. International Journal of Sports Physiology and Performance, 2014, 9, 489-496.	2.3	35

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37	Simultaneous analysis of antiretroviral drugs abacavir and tenofovir in human hair by liquid chromatographyâ€“tandem mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2013, 74, 308-313.	2.8	24
38	Enzymatic Digestion and Selective Quantification of Underivatised Delta-9-Tetrahydrocannabinol and Cocaine in Human Hair Using Gas Chromatography-Mass Spectrometry. Journal of Analytical Methods in Chemistry, 2012, 2012, 1-7.	1.6	16
39	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
40	Dietary green and white teas suppress UDP-glucuronosyltransferase UGT2B17 mediated testosterone glucuronidation. Steroids, 2012, 77, 691-695.	1.8	28
41	Detection of testosterone and epitestosterone in human hair using liquid chromatographyâ€“tandem mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2012, 67-68, 154-158.	2.8	29
42	A novel steroidal saponin glycoside from Fagonia indica induces cell-selective apoptosis or necrosis in cancer cells. European Journal of Pharmaceutical Sciences, 2012, 47, 464-473.	4.0	55
43	Determination of stanozolol and 3â€²-hydroxystanozolol in rat hair, urine and serum using liquid chromatography tandem mass spectrometry. Chemistry Central Journal, 2012, 6, 162.	2.6	13
44	Quantitative analysis of mephedrone using liquid chromatography tandem mass spectroscopy: Application to human hair. Journal of Pharmaceutical and Biomedical Analysis, 2012, 61, 64-69.	2.8	40
45	Novel acylated steroidal glycosides from Caralluma tuberculata induce caspase-dependent apoptosis in cancer cells. Journal of Ethnopharmacology, 2011, 137, 1189-1196.	4.1	19
46	Misleading measures in Vitamin D analysis: A novel LC-MS/MS assay to account for epimers and isobars. Nutrition Journal, 2011, 10, 46.	3.4	134
47	New non-randomised model to assess the prevalence of discriminating behaviour: a pilot study on mephedrone. Substance Abuse Treatment, Prevention, and Policy, 2011, 6, 20.	2.2	33
48	Detection of stanozolol in environmental waters using liquid chromatography tandem mass spectrometry. Chemistry Central Journal, 2011, 5, 63.	2.6	5
49	Incongruence in Doping Related Attitudes, Beliefs and Opinions in the Context of Discordant Behavioural Data: In Which Measure Do We Trust?. PLoS ONE, 2011, 6, e18804.	2.5	32
50	Potentially harmful advantage to athletes: a putative connection between UGT2B17 gene deletion polymorphism and renal disorders with prolonged use of anabolic androgenic steroids. Substance Abuse Treatment, Prevention, and Policy, 2010, 5, 7.	2.2	21
51	Virtue or Pretense? Looking behind Self-Declared Innocence in Doping. PLoS ONE, 2010, 5, e10457.	2.5	44
52	Cytotoxicity and bioavailability studies on a decoction of Oldenlandia diffusa and its fractions separated by HPLC. Journal of Ethnopharmacology, 2010, 131, 396-403.	4.1	46
53	Analysis of anabolic steroids in human hair using LCâ€“MS/MS. Steroids, 2010, 75, 710-714.	1.8	73
54	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

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55	Determination of metal ion content of beverages and estimation of target hazard quotients: a comparative study. Chemistry Central Journal, 2008, 2, 13.	2.6	52
56	Apoptotic effect of Oldenlandia diffusa on the leukaemic cell line HL60 and human lymphocytes. Journal of Ethnopharmacology, 2007, 114, 290-299.	4.1	30
57	Closed vessels microwave digestion method for uranium analysis of soils using alpha-spectroscopy. Journal of Radioanalytical and Nuclear Chemistry, 2007, 273, 281-284.	1.5	13
58	Dietary chelators as antioxidant enzyme mimetics: implications for dietary intervention in neurodegenerative diseases. Behavioural Pharmacology, 2006, 17, 425-430.	1.7	13
59	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
60	A validation study comparing accelerator MS and liquid scintillation counting for analysis of 14C-labelled drugs in plasma, urine and faecal extracts. Journal of Pharmaceutical and Biomedical Analysis, 2000, 24, 197-209.	2.8	62
61	Plants as biomarkers for monitoring heavy metal contaminants on landfill sites using sequential extraction and inductively coupled plasma atomic emission spectrophotometry (ICP-AES). Journal of Environmental Monitoring, 2000, 2, 621-627.	2.1	34
62	134 sample multi-cathode source of negative ions by cesium sputtering (134 MC-SNICS). , 1999, , .		5
63	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
64	On-line separation of short-lived beryllium isotopes. , 1998, , .		4
65	AMS measurements to study uptake and distribution of 26Al in mice and the role of the transferrin receptor in aluminium absorption mechanisms. Nuclear Instruments & Methods in Physics Research B, 1997, 123, 275-278.	1.4	7
66	Bunched release of gases from oxide targets. Nuclear Instruments & Methods in Physics Research B, 1997, 126, 176-181.	1.4	8
67	The Influence of EDTMP-Concentration on the Biodistribution of Radio-Lanthanides and 225-Ac in Tumor-Bearing Mice. Nuclear Medicine and Biology, 1997, 24, 367-372.	0.6	25
68	Biological chemistry of aluminium studied using 26Al and accelerator mass spectrometry. Nuclear Instruments & Methods in Physics Research B, 1994, 92, 463-468.	1.4	28
69	Effect of silicon on gastrointestinal absorption of aluminium. Lancet, The, 1993, 342, 211-212.	13.7	148
70	Development of 26Al accelerator mass spectrometry for aluminium absorption experiments in humans. Nuclear Instruments & Methods in Physics Research B, 1992, 68, 319-322.	1.4	15
71	Aluminium absorption studied by 26Al tracer. Lancet, The, 1991, 337, 1345.	13.7	85
72	Development of AMS at Daresbury for fully-stripped heavy ions. Nuclear Instruments & Methods in Physics Research B, 1990, 52, 290-293.	1.4	4

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73	Development of26Al accelerator mass spectrometry for biological and toxicological applications. Nuclear Instruments & Methods in Physics Research B, 1990, 52, 540-543.	1.4	31