Barbara Bojko

List of Publications by Year in descending order

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87723 118652 4,514 121 38 62 citations h-index g-index papers 125 125 125 3899 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Metabolomic Phenotyping of Gliomas: What Can We Get with Simplified Protocol for Intact Tissue Analysis?. Cancers, 2022, 14, 312.	1.7	11
2	A Review of Current and Emerging Trends in Donor Graft-Quality Assessment Techniques. Journal of Clinical Medicine, 2022, 11, 487.	1.0	14
3	Antimicrobial and Cytotoxic Activity of Novel Imidazolium-Based Ionic Liquids. Molecules, 2022, 27, 1974.	1.7	8
4	Investigating the Potential Use of Chemical Biopsy Devices to Characterize Brain Tumor Lipidomes. International Journal of Molecular Sciences, 2022, 23, 3518.	1.8	7
5	Coated Blade Spray-Mass Spectrometry as a New Approach for the Rapid Characterization of Brain Tumors. Molecules, 2022, 27, 2251.	1.7	5
6	Untargeted Metabolomic Assay of Prefrail Older Adults after Nutritional Intervention. Metabolites, 2022, 12, 378.	1.3	0
7	Solid-phase microextraction: a fit-for-purpose technique in biomedical analysis. Analytical and Bioanalytical Chemistry, 2022, 414, 7005-7013.	1.9	8
8	Metabolomic fingerprinting of porcine lung tissue during pre-clinical prolonged exÂvivo lung perfusion using inÂvivo SPME coupled with LC-HRMS. Journal of Pharmaceutical Analysis, 2022, 12, 590-600.	2.4	8
9	A model to assess acute and delayed lung toxicity of oxaliplatin during inÂvivo lung perfusion. Journal of Thoracic and Cardiovascular Surgery, 2021, 161, 1626-1635.	0.4	5
10	Therapeutic drug monitoring of tranexamic acid in plasma and urine of renally impaired patients using solid phase microextraction. Talanta, 2021, 225, 121945.	2.9	13
11	Solid phase microextraction chemical biopsy tool for monitoring of doxorubicin residue during inÂvivo lung chemo-perfusion. Journal of Pharmaceutical Analysis, 2021, 11, 37-47.	2.4	36
12	Assessment of solid phase microextraction as a sample preparation tool for untargeted analysis of brain tissue using liquid chromatography-mass spectrometry. Journal of Chromatography A, 2021, 1638, 461862.	1.8	18
13	One extraction tool for inÂvitro-inÂvivo extrapolation? SPME-based metabolomics of inÂvitro 2D, 3D, and inÂvivo mouse melanoma models. Journal of Pharmaceutical Analysis, 2021, 11, 667-674.	2.4	7
14	Metabolic Evaluation of Urine from Patients Diagnosed with High Grade (HG) Bladder Cancer by SPME-LC-MS Method. Molecules, 2021, 26, 2194.	1.7	20
15	Glioblastoma Metabolomics—In Vitro Studies. Metabolites, 2021, 11, 315.	1.3	11
16	Untargeted metabolomics profiling of skeletal muscle samples from malignant hyperthermia susceptible patients. Canadian Journal of Anaesthesia, 2021, 68, 761-772.	0.7	9
17	Selected Drug-Likeness Properties of 2-Arylidene-indan-1,3-dione Derivativesâ€"Chemical Compounds with Potential Anti-Cancer Activity. Molecules, 2021, 26, 5256.	1.7	3
18	Current approaches to the analysis of bile and the determination of bile acids in various biological matrices as supportive tools to traditional diagnostic testing for liver dysfunction and biliary diseases. TrAC - Trends in Analytical Chemistry, 2021, 142, 116307.	5.8	4

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19	New chemical biopsy tool for spatially resolved profiling of human brain tissue in vivo. Scientific Reports, 2021, 11, 19522.	1.6	17
20	Profiling of Carnitine Shuttle System Intermediates in Gliomas Using Solid-Phase Microextraction (SPME). Molecules, 2021, 26, 6112.	1.7	9
21	Application of Thin-Film Microextraction to Analyze Volatile Metabolites in A549 Cancer Cells. Metabolites, 2021, 11, 704.	1.3	8
22	Inâ€Vivo Solidâ€Phase Microextraction for Sampling of Oxylipins in Brain of Awake, Moving Rats. Angewandte Chemie, 2020, 132, 2413-2419.	1.6	2
23	Inâ€Vivo Solidâ€Phase Microextraction for Sampling of Oxylipins in Brain of Awake, Moving Rats. Angewandte Chemie - International Edition, 2020, 59, 2392-2398.	7.2	56
24	Tropinone-Derived Alkaloids as Potent Anticancer Agents: Synthesis, Tyrosinase Inhibition, Mechanism of Action, DFT Calculation, and Molecular Docking Studies. International Journal of Molecular Sciences, 2020, 21, 9050.	1,8	15
25	Comprehensive Investigation of Metabolic Changes Occurring in the Rat Brain Hippocampus after Fluoxetine Administration Using Two Complementary In Vivo Techniques: Solid Phase Microextraction and Microdialysis. ACS Chemical Neuroscience, 2020, 11, 3749-3760.	1.7	24
26	Development of a thin-film solid-phase microextraction (TF-SPME) method coupled to liquid chromatography and tandem mass spectrometry for high-throughput determination of steroid hormones in white sucker fish plasma. Analytical and Bioanalytical Chemistry, 2020, 412, 4183-4194.	1.9	13
27	On-Site Sampling and Extraction of Brain Tumors for Metabolomics and Lipidomics Analysis. Journal of Visualized Experiments, 2020, , .	0.2	6
28	Mechanism of interactions between organophosphorus insecticides and human serum albumin: Solid-phase microextraction, thermodynamics and computational approach. Chemosphere, 2020, 253, 126698.	4.2	13
29	Comparison of Metabolomic Profiles of Organs in Mice of Different Strains Based on SPME-LC-HRMS. Metabolites, 2020, 10, 255.	1.3	13
30	Monitoring of the influence of longâ€term oxidative stress and ischemia on the condition of kidneys using solidâ€phase microextraction chemical biopsy coupled with liquid chromatography–highâ€resolution mass spectrometry. Journal of Separation Science, 2020, 43, 1867-1878.	1.3	17
31	Using a Chemical Biopsy for Graft Quality Assessment. Journal of Visualized Experiments, 2020, , .	0.2	8
32	In Vivo Brain Sampling Using a Microextraction Probe Reveals Metabolic Changes in Rodents after Deep Brain Stimulation. Analytical Chemistry, 2019, 91, 9875-9884.	3.2	47
33	Application of in situ Solid-Phase Microextraction on Mediterranean Sponges for Untargeted Exometabolome Screening and Environmental Monitoring. Frontiers in Marine Science, 2019, 6, .	1.2	15
34	The use of solid phase microextraction for metabolomic analysis of non-small cell lung carcinoma cell line (A549) after administration of combretastatin A4. Scientific Reports, 2019, 9, 402.	1.6	18
35	Direct coupling of solid phase microextraction with electrospray ionization mass spectrometry: A Case study for detection of ketamine in urine. Analytica Chimica Acta, 2019, 1075, 112-119.	2.6	37
36	Predictor parameters of liver viability during porcine normothermic ex situ liver perfusion in a model of liver transplantation with marginal grafts. American Journal of Transplantation, 2019, 19, 2991-3005.	2.6	25

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37	Discovery of tropinone-thiazole derivatives as potent caspase 3/7 activators, and noncompetitive tyrosinase inhibitors with high antiproliferative activity: Rational design, one-pot tricomponent synthesis, and lipophilicity determination. European Journal of Medicinal Chemistry, 2019, 175, 162-171.	2.6	37
38	SPME in clinical, pharmaceutical, and biotechnological research $\hat{a} \in \text{``How far are we from daily practice?.}$ TrAC - Trends in Analytical Chemistry, 2019, 115, 203-213.	5.8	48
39	High-Throughput Solid-Phase Microextraction–Liquid Chromatography–Mass Spectrometry for Microbial Untargeted Metabolomics. Methods in Molecular Biology, 2019, 1859, 133-152.	0.4	10
40	Equilibrium ex vivo calibration of homogenized tissue for in vivo SPME quantitation of doxorubicin in lung tissue. Talanta, 2018, 183, 304-310.	2.9	43
41	Untargeted screening of phase I metabolism of combretastatin A4 by multi-tool analysis. Talanta, 2018, 182, 22-31.	2.9	10
42	High-throughput analysis using non-depletive SPME: challenges and applications to the determination of free and total concentrations in small sample volumes. Scientific Reports, 2018, 8, 1167.	1.6	31
43	Tranexamic Acid Dosing for Cardiac Surgical Patients With Chronic Renal Dysfunction: A New Dosing Regimen. Anesthesia and Analgesia, 2018, 127, 1323-1332.	1.1	56
44	Cell cultures in drug discovery and development: The need of reliable in vitro-in vivo extrapolation for pharmacodynamics and pharmacokinetics assessment. Journal of Pharmaceutical and Biomedical Analysis, 2018, 147, 297-312.	1.4	72
45	Advances in Solid Phase Microextraction and Perspective on Future Directions. Analytical Chemistry, 2018, 90, 302-360.	3.2	534
46	Abrogating fibrinolysis does not improve bleeding or rFVIIa/rFVIII treatment in a nonâ€mucosal venous injury model in haemophilic rodents. Journal of Thrombosis and Haemostasis, 2018, 16, 1369-1382.	1.9	14
47	A new strategy for brain tumour metabolomic analysis. Medical Research Journal, 2018, 3, 15-22.	0.1	6
48	Comparing early liver graft function from heart beating and livingâ€donors: A pilot study aiming to identify new biomarkers of liver injury. Biopharmaceutics and Drug Disposition, 2017, 38, 326-339.	1.1	11
49	Editorial for the special issue entitled "Extraction and Sample Preparation Techniques in Bioanalysis― Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1043, 1-2.	1.2	4
50	Deposition of a Sorbent into a Recession on a Solid Support To Provide a New, Mechanically Robust Solid-Phase Microextraction Device. Analytical Chemistry, 2017, 89, 8021-8026.	3.2	40
51	High throughput solid phase microextraction: A new alternative for analysis of cellular lipidome?. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1043, 12-19.	1.2	26
52	Fast Quantitation of Target Analytes in Small Volumes of Complex Samples by Matrixâ€Compatible Solidâ€Phase Microextraction Devices. Angewandte Chemie - International Edition, 2016, 55, 7510-7514.	7.2	96
53	Fast Quantitation of Target Analytes in Small Volumes of Complex Samples by Matrixâ€Compatible Solidâ€Phase Microextraction Devices. Angewandte Chemie, 2016, 128, 7636-7640.	1.6	11
54	SPME as a promising tool in translational medicine and drug discovery: From bench to bedside. Journal of Pharmaceutical and Biomedical Analysis, 2016, 130, 55-67.	1.4	22

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55	Cinnamaldehyde Characterization as an Antibacterial Agent toward ⟨i⟩E. coli⟨/i⟩ Metabolic Profile Using 96-Blade Solid-Phase Microextraction Coupled to Liquid Chromatography–Mass Spectrometry. Journal of Proteome Research, 2016, 15, 963-975.	1.8	59
56	Biocompatible Solid-Phase Microextraction Nanoelectrospray Ionization: An Unexploited Tool in Bioanalysis. Analytical Chemistry, 2016, 88, 1259-1265.	3.2	117
57	Development of SPME-LC–MS method for screening of eight beta-blockers and bronchodilators in plasma and urine samples. Journal of Pharmaceutical and Biomedical Analysis, 2016, 127, 147-155.	1.4	30
58	Bioanalytical method for <i>in vitro</i> metabolism study of repaglinide using 96-blade thin-film solid-phase microextraction and LC–MS/MS. Bioanalysis, 2015, 7, 65-77.	0.6	20
59	Targeting Mitochondria with Avocatin B Induces Selective Leukemia Cell Death. Cancer Research, 2015, 75, 2478-2488.	0.4	136
60	A critical review of the state of the art of solid-phase microextraction of complex matrices III. Bioanalytical and clinical applications. TrAC - Trends in Analytical Chemistry, 2015, 71, 249-264.	5.8	203
61	Development of high throughput 96-blade solid phase microextraction-liquid chromatrography-mass spectrometry protocol for metabolomics. Analytica Chimica Acta, 2015, 892, 95-104.	2.6	41
62	Solid Phase Microextraction Devices Prepared on Plastic Support as Potential Single-Use Samplers for Bioanalytical Applications. Analytical Chemistry, 2015, 87, 9722-9730.	3.2	73
63	<i>ln vivo</i> and <i>exÂvivo</i> SPME: a low invasive sampling and sample preparation tool in clinical bioanalysis. Bioanalysis, 2014, 6, 1227-1239.	0.6	40
64	High throughput quantification of prohibited substances in plasma using thin film solid phase microextraction. Journal of Chromatography A, 2014, 1374, 40-49.	1.8	77
65	Introduction of solid-phase microextraction as a high-throughput sample preparation tool in laboratory analysis of prohibited substances. Analytica Chimica Acta, 2014, 809, 69-81.	2.6	89
66	Determination of bronchoalveolar lavage bile acids by solid phase microextraction liquid chromatography–tandem mass spectrometry in combination with metabolite profiling: Comparison with enzymatic assay. Journal of Chromatography A, 2014, 1367, 33-38.	1.8	19
67	Application of Solid Phase Microextraction for Quantitation of Polyunsaturated Fatty Acids in Biological Fluids. Analytical Chemistry, 2014, 86, 12022-12029.	3.2	38
68	Solid-phase microextraction in metabolomics. TrAC - Trends in Analytical Chemistry, 2014, 61, 168-180.	5.8	127
69	Development of SPME method for concomitant sample preparation of rocuronium bromide and tranexamic acid in plasma. Journal of Pharmaceutical and Biomedical Analysis, 2014, 92, 183-192.	1.4	34
70	Metabolic profiling of plasma from cardiac surgical patients concurrently administered with tranexamic acid: DI-SPME–LC–MS analysis. Journal of Pharmaceutical Analysis, 2014, 4, 6-13.	2.4	15
71	Low invasive in vivo tissue sampling for monitoring biomarkers and drugs during surgery. Laboratory Investigation, 2014, 94, 586-594.	1.7	47
72	In situ chemical exploration of underwater ecosystems with microsampling/enrichment device. Journal of Chromatography A, 2014, 1328, 113-117.	1.8	6

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73	Automated SPME–GC–MS monitoring of headspace metabolomic responses of E. coli to biologically active components extracted by the coating. Analytica Chimica Acta, 2013, 776, 41-49.	2.6	29
74	Solid phase microextraction fills the gap in tissue sampling protocols. Analytica Chimica Acta, 2013, 803, 75-81.	2.6	46
75	Solidâ€Phase Microextraction: A Complementary Inâ€Vivo Sampling Method to Microdialysis. Angewandte Chemie - International Edition, 2013, 52, 12124-12126.	7.2	108
76	Microextraction versus exhaustive extraction approaches for simultaneous analysis of compounds in wide range of polarity. Journal of Chromatography A, 2013, 1316, 37-43.	1.8	45
77	Quantitative structure–retention relationships models for prediction of high performance liquid chromatography retention time of small molecules: Endogenous metabolites and banned compounds. Analytica Chimica Acta, 2013, 797, 13-19.	2.6	86
78	A non-invasive method for in vivo skin volatile compounds sampling. Analytica Chimica Acta, 2013, 804, 111-119.	2.6	77
79	Analysis of human saliva metabolome by direct immersion solid-phase microextraction LC and benchtop orbitrap MS. Bioanalysis, 2013, 5, 783-792.	0.6	40
80	Solidâ€Phase Microextraction: A Complementary Inâ€Vivo Sampling Method to Microdialysis. Angewandte Chemie, 2013, 125, 12346-12348.	1.6	8
81	Modern Analytical Chemistry in Clinics. Modern Chemistry & Applications, 2013, 01, .	0.2	0
82	Therapeutic Monitoring of Tranexamic Acid Concentration: High-Throughput Analysis With Solid-Phase Microextraction. Therapeutic Drug Monitoring, 2012, 34, 31-37.	1.0	28
83	<i>In vivo</i> solid-phase microextraction for tissue bioanalysis. Bioanalysis, 2012, 4, 2605-2619.	0.6	39
84	Semi-automated in vivo solid-phase microextraction sampling and the diffusion-based interface calibration model to determine the pharmacokinetics of methoxyfenoterol and fenoterol in rats. Analytica Chimica Acta, 2012, 742, 37-44.	2.6	19
85	SPME – Quo vadis?. Analytica Chimica Acta, 2012, 750, 132-151.	2.6	163
86	The benefits of using solid-phase microextraction as a greener sample preparation technique. Bioanalysis, 2012, 4, 1263-1265.	0.6	13
87	Drug Analysis by SPME. , 2012, , 335-382.		2
88	The influence of fatty acids on theophylline binding to human serum albumin. Comparative fluorescence study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 89, 270-275.	2.0	9
89	Comparison of solid phase microextraction versus spectroscopic techniques for binding studies of carbamazepine. Journal of Pharmaceutical and Biomedical Analysis, 2012, 66, 91-99.	1.4	16
90	Pharmacokinetics of tranexamic acid in patients undergoing cardiac surgery with use of cardiopulmonary bypass*. Anaesthesia, 2012, 67, 1242-1250.	1.8	57

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91	Use of a novel technique, solid phase microextraction, to measure tranexamic acid in patients undergoing cardiac surgery. Canadian Journal of Anaesthesia, 2012, 59, 14-20.	0.7	19
92	Determination of tranexamic acid concentration by solid phase microextraction and liquid chromatography–tandem mass spectrometry: First step to in vivo analysis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 3781-3787.	1,2	40
93	Solid-phase microextraction. How far are we from clinical practice?. TrAC - Trends in Analytical Chemistry, 2011, 30, 1505-1512.	5.8	42
94	A spectroscopic study of phenylbutazone and aspirin bound to serum albumin in rheumatoid diseases. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 82, 181-190.	2.0	26
95	Polypharmacotherapy in rheumatology: 1H NMR analysis of binding of phenylbutazone and methotrexate to serum albumin. Journal of Molecular Structure, 2011, 993, 302-307.	1.8	6
96	Effect of ageing of human serum albumin in vitro on surface hydrophobicity and binding sites of metronidazole. Journal of Molecular Structure, 2011, 993, 477-484.	1.8	4
97	Solid-phase microextraction: a multi-purpose microtechnique. Bioanalysis, 2011, 3, 1895-1899.	0.6	9
98	Influence of myristic acid on furosemide binding to bovine serum albumin. Comparison with furosemide–human serum albumin complex. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2010, 76, 6-11.	2.0	15
99	Alterations of furosemide binding to serum albumin induced by increased level of fatty acid. Journal of Pharmaceutical and Biomedical Analysis, 2010, 51, 273-277.	1.4	13
100	The influence of dietary habits and pathological conditions on the binding of theophylline to serum albumin. Journal of Pharmaceutical and Biomedical Analysis, 2010, 52, 384-390.	1.4	29
101	Thermotropic Phase Behavior of Liposome Entrapped 5-FU and LCV. Molecular Crystals and Liquid Crystals, 2010, 523, 282/[854]-288/[860].	0.4	4
102	Fluorescence analysis of competition of phenylbutazone and methotrexate in binding to serum albumin in combination treatment in rheumatology. Journal of Molecular Structure, 2009, 924-926, 378-384.	1.8	46
103	Investigations of acetaminophen binding to bovine serum albumin in the presence of fatty acid: Fluorescence and 1H NMR studies. Journal of Molecular Structure, 2009, 924-926, 332-337.	1.8	32
104	Fluorescence analysis of sulfasalazine bound to defatted serum albumin in the presence of denaturating factors. Journal of Molecular Structure, 2009, 924-926, 371-377.	1.8	23
105	Binding of 6-propyl-2-thiouracil to human serum albumin destabilized by chemical denaturants. Journal of Photochemistry and Photobiology B: Biology, 2009, 97, 54-59.	1.7	12
106	Interaction of phenylbutazone and colchicine in binding to serum albumin in rheumatoid therapy: 1H NMR study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 74, 1-9.	2.0	19
107	1HNMR study of methotrexate–serum albumin (MTX–SA) binding in rheumatoid arthritis. Journal of Molecular Structure, 2008, 891, 278-283.	1.8	16
108	Competitive binding of phenylbutazone and colchicine to serum albumin in multidrug therapy: A spectroscopic study. Journal of Molecular Structure, 2008, 881, 97-106.	1.8	115

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109	Changes of serum albumin affinity for aspirin induced by fatty acid. International Journal of Biological Macromolecules, 2008, 42, 314-323.	3 . 6	46
110	Application of spin markers for study of liposome prepared by the modified reverse-phase evaporation method. Spectroscopy, 2008, 22, 33-41.	0.8	4
111	Effect of temperature on the methotrexate – BSA interaction: Spectroscopic study. Journal of Molecular Structure, 2007, 834-836, 162-169.	1.8	59
112	Paracetamol and cytarabine binding competition in high affinity binding sites of transporting protein. Journal of Molecular Structure, 2006, 792-793, 249-256.	1.8	45
113	Stability of the complex BSA-6-propyl-2-thiouracil in the presence of Gu·HCl and urea. Journal of Molecular Structure, 2006, 792-793, 243-248.	1.8	17
114	Competition of cytarabine and aspirin in binding to serum albumin in multidrug therapy. Biopolymers, 2006, 81, 464-472.	1.2	14
115	The Effect of Serum Albumin on Binding of Protoporphyrin IX to Phospholipid Membrane. Molecular Crystals and Liquid Crystals, 2006, 448, 73/[675]-81/[683].	0.4	3
116	The competition of drugs to serum albumin in combination chemotherapy: NMR study. Journal of Molecular Structure, 2005, 744-747, 781-787.	1.8	31
117	The effect of concentration of guanidine hydrochloride on the sulfasalazine–serum albumin complex. Journal of Molecular Structure, 2005, 744-747, 775-779.	1.8	14
118	Competition of drugs to serum albumin in combination therapy. Biopolymers, 2004, 74, 256-262.	1.2	54
119	Effect of guanidine hydrochloride on bovine serum albumin complex with antithyroid drugs: fluorescence study. Journal of Molecular Structure, 2004, 704, 291-295.	1.8	48
120	Effect of urea on serum albumin complex with antithyroid drugs: fluorescence study. Journal of Molecular Structure, 2003, 651-653, 237-243.	1.8	55
121	Interaction of anticancer drugs with human and bovine serum albumin. Journal of Molecular Structure, 2003, 651-653, 133-140.	1.8	94