

Barbara Bojko

List of Publications by Year in descending order

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121
papers

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citations

87723

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all docs

125
docs citations

125
times ranked

3899
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in Solid Phase Microextraction and Perspective on Future Directions. <i>Analytical Chemistry</i> , 2018, 90, 302-360.	3.2	534
2	A critical review of the state of the art of solid-phase microextraction of complex matrices III. Bioanalytical and clinical applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 71, 249-264.	5.8	203
3	SPME – Quo vadis?. <i>Analytica Chimica Acta</i> , 2012, 750, 132-151.	2.6	163
4	Targeting Mitochondria with Avocatin B Induces Selective Leukemia Cell Death. <i>Cancer Research</i> , 2015, 75, 2478-2488.	0.4	136
5	Solid-phase microextraction in metabolomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 61, 168-180.	5.8	127
6	Biocompatible Solid-Phase Microextraction Nanoelectrospray Ionization: An Unexploited Tool in Bioanalysis. <i>Analytical Chemistry</i> , 2016, 88, 1259-1265.	3.2	117
7	Competitive binding of phenylbutazone and colchicine to serum albumin in multidrug therapy: A spectroscopic study. <i>Journal of Molecular Structure</i> , 2008, 881, 97-106.	1.8	115
8	Solid-Phase Microextraction: A Complementary In Vivo Sampling Method to Microdialysis. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12124-12126.	7.2	108
9	Fast Quantitation of Target Analytes in Small Volumes of Complex Samples by Matrix-Compatible Solid-Phase Microextraction Devices. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7510-7514.	7.2	96
10	Interaction of anticancer drugs with human and bovine serum albumin. <i>Journal of Molecular Structure</i> , 2003, 651-653, 133-140.	1.8	94
11	Introduction of solid-phase microextraction as a high-throughput sample preparation tool in laboratory analysis of prohibited substances. <i>Analytica Chimica Acta</i> , 2014, 809, 69-81.	2.6	89
12	Quantitative structure-retention relationships models for prediction of high performance liquid chromatography retention time of small molecules: Endogenous metabolites and banned compounds. <i>Analytica Chimica Acta</i> , 2013, 797, 13-19.	2.6	86
13	A non-invasive method for in vivo skin volatile compounds sampling. <i>Analytica Chimica Acta</i> , 2013, 804, 111-119.	2.6	77
14	High throughput quantification of prohibited substances in plasma using thin film solid phase microextraction. <i>Journal of Chromatography A</i> , 2014, 1374, 40-49.	1.8	77
15	Solid Phase Microextraction Devices Prepared on Plastic Support as Potential Single-Use Samplers for Bioanalytical Applications. <i>Analytical Chemistry</i> , 2015, 87, 9722-9730.	3.2	73
16	Cell cultures in drug discovery and development: The need of reliable in vitro-in vivo extrapolation for pharmacodynamics and pharmacokinetics assessment. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 147, 297-312.	1.4	72
17	Effect of temperature on the methotrexate – BSA interaction: Spectroscopic study. <i>Journal of Molecular Structure</i> , 2007, 834-836, 162-169.	1.8	59
18	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. <i>Journal of Proteome Research</i> , 2016, 15, 963-975.	1.8	59

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19	Pharmacokinetics of tranexamic acid in patients undergoing cardiac surgery with use of cardiopulmonary bypass*. <i>Anaesthesia</i> , 2012, 67, 1242-1250.	1.8	57
20	Tranexamic Acid Dosing for Cardiac Surgical Patients With Chronic Renal Dysfunction: A New Dosing Regimen. <i>Anesthesia and Analgesia</i> , 2018, 127, 1323-1332.	1.1	56
21	In vivo Solid Phase Microextraction for Sampling of Oxylipins in Brain of Awake, Moving Rats. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2392-2398.	7.2	56
22	Effect of urea on serum albumin complex with antithyroid drugs: fluorescence study. <i>Journal of Molecular Structure</i> , 2003, 651-653, 237-243.	1.8	55
23	Competition of drugs to serum albumin in combination therapy. <i>Biopolymers</i> , 2004, 74, 256-262.	1.2	54
24	Effect of guanidine hydrochloride on bovine serum albumin complex with antithyroid drugs: fluorescence study. <i>Journal of Molecular Structure</i> , 2004, 704, 291-295.	1.8	48
25	SPME in clinical, pharmaceutical, and biotechnological research – How far are we from daily practice?. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 115, 203-213.	5.8	48
26	Low invasive in vivo tissue sampling for monitoring biomarkers and drugs during surgery. <i>Laboratory Investigation</i> , 2014, 94, 586-594.	1.7	47
27	In Vivo Brain Sampling Using a Microextraction Probe Reveals Metabolic Changes in Rodents after Deep Brain Stimulation. <i>Analytical Chemistry</i> , 2019, 91, 9875-9884.	3.2	47
28	Changes of serum albumin affinity for aspirin induced by fatty acid. <i>International Journal of Biological Macromolecules</i> , 2008, 42, 314-323.	3.6	46
29	Fluorescence analysis of competition of phenylbutazone and methotrexate in binding to serum albumin in combination treatment in rheumatology. <i>Journal of Molecular Structure</i> , 2009, 924-926, 378-384.	1.8	46
30	Solid phase microextraction fills the gap in tissue sampling protocols. <i>Analytica Chimica Acta</i> , 2013, 803, 75-81.	2.6	46
31	Paracetamol and cytarabine binding competition in high affinity binding sites of transporting protein. <i>Journal of Molecular Structure</i> , 2006, 792-793, 249-256.	1.8	45
32	Microextraction versus exhaustive extraction approaches for simultaneous analysis of compounds in wide range of polarity. <i>Journal of Chromatography A</i> , 2013, 1316, 37-43.	1.8	45
33	Equilibrium ex vivo calibration of homogenized tissue for in vivo SPME quantitation of doxorubicin in lung tissue. <i>Talanta</i> , 2018, 183, 304-310.	2.9	43
34	Solid-phase microextraction. How far are we from clinical practice?. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 1505-1512.	5.8	42
35	Development of high throughput 96-blade solid phase microextraction-liquid chromatography-mass spectrometry protocol for metabolomics. <i>Analytica Chimica Acta</i> , 2015, 892, 95-104.	2.6	41
36	Determination of tranexamic acid concentration by solid phase microextraction and liquid chromatography-tandem mass spectrometry: First step to in vivo analysis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 3781-3787.	1.2	40

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37	Analysis of human saliva metabolome by direct immersion solid-phase microextraction LC and benchtop orbitrap MS. <i>Bioanalysis</i> , 2013, 5, 783-792.	0.6	40
38	<i>In vivo</i> and <i>ex vivo</i> SPME: a low invasive sampling and sample preparation tool in clinical bioanalysis. <i>Bioanalysis</i> , 2014, 6, 1227-1239.	0.6	40
39	Deposition of a Sorbent into a Recession on a Solid Support To Provide a New, Mechanically Robust Solid-Phase Microextraction Device. <i>Analytical Chemistry</i> , 2017, 89, 8021-8026.	3.2	40
40	<i>In vivo</i> solid-phase microextraction for tissue bioanalysis. <i>Bioanalysis</i> , 2012, 4, 2605-2619.	0.6	39
41	Application of Solid Phase Microextraction for Quantitation of Polyunsaturated Fatty Acids in Biological Fluids. <i>Analytical Chemistry</i> , 2014, 86, 12022-12029.	3.2	38
42	Direct coupling of solid phase microextraction with electrospray ionization mass spectrometry: A Case study for detection of ketamine in urine. <i>Analytica Chimica Acta</i> , 2019, 1075, 112-119.	2.6	37
43	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. <i>European Journal of Medicinal Chemistry</i> , 2019, 175, 162-171.	2.6	37
44	Solid phase microextraction chemical biopsy tool for monitoring of doxorubicin residue during <i>in vivo</i> lung chemo-perfusion. <i>Journal of Pharmaceutical Analysis</i> , 2021, 11, 37-47.	2.4	36
45	Development of SPME method for concomitant sample preparation of rocuronium bromide and tranexamic acid in plasma. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 92, 183-192.	1.4	34
46	Investigations of acetaminophen binding to bovine serum albumin in the presence of fatty acid: Fluorescence and ¹ H NMR studies. <i>Journal of Molecular Structure</i> , 2009, 924-926, 332-337.	1.8	32
47	The competition of drugs to serum albumin in combination chemotherapy: NMR study. <i>Journal of Molecular Structure</i> , 2005, 744-747, 781-787.	1.8	31
48	High-throughput analysis using non-depletive SPME: challenges and applications to the determination of free and total concentrations in small sample volumes. <i>Scientific Reports</i> , 2018, 8, 1167.	1.6	31
49	Development of SPME-LC-MS method for screening of eight beta-blockers and bronchodilators in plasma and urine samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 127, 147-155.	1.4	30
50	The influence of dietary habits and pathological conditions on the binding of theophylline to serum albumin. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 52, 384-390.	1.4	29
51	Automated SPME-GC-MS monitoring of headspace metabolomic responses of <i>E. coli</i> to biologically active components extracted by the coating. <i>Analytica Chimica Acta</i> , 2013, 776, 41-49.	2.6	29
52	Therapeutic Monitoring of Tranexamic Acid Concentration: High-Throughput Analysis With Solid-Phase Microextraction. <i>Therapeutic Drug Monitoring</i> , 2012, 34, 31-37.	1.0	28
53	A spectroscopic study of phenylbutazone and aspirin bound to serum albumin in rheumatoid diseases. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 82, 181-190.	2.0	26
54	High throughput solid phase microextraction: A new alternative for analysis of cellular lipidome?. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1043, 12-19.	1.2	26

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55	Predictor parameters of liver viability during porcine normothermic ex situ liver perfusion in a model of liver transplantation with marginal grafts. <i>American Journal of Transplantation</i> , 2019, 19, 2991-3005.	2.6	25
56	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. <i>ACS Chemical Neuroscience</i> , 2020, 11, 3749-3760.	1.7	24
57	Fluorescence analysis of sulfasalazine bound to defatted serum albumin in the presence of denaturing factors. <i>Journal of Molecular Structure</i> , 2009, 924-926, 371-377.	1.8	23
58	SPME as a promising tool in translational medicine and drug discovery: From bench to bedside. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 130, 55-67.	1.4	22
59	Bioanalytical method for <i>in vitro</i> metabolism study of repaglinide using 96-blade thin-film solid-phase microextraction and LC-MS/MS. <i>Bioanalysis</i> , 2015, 7, 65-77.	0.6	20
60	Metabolic Evaluation of Urine from Patients Diagnosed with High Grade (HG) Bladder Cancer by SPME-LC-MS Method. <i>Molecules</i> , 2021, 26, 2194.	1.7	20
61	Interaction of phenylbutazone and colchicine in binding to serum albumin in rheumatoid therapy: 1H NMR study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 74, 1-9.	2.0	19
62	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. <i>Analytica Chimica Acta</i> , 2012, 742, 37-44.	2.6	19
63	Use of a novel technique, solid phase microextraction, to measure tranexamic acid in patients undergoing cardiac surgery. <i>Canadian Journal of Anaesthesia</i> , 2012, 59, 14-20.	0.7	19
64	Determination of bronchoalveolar lavage bile acids by solid phase microextraction liquid chromatography-tandem mass spectrometry in combination with metabolite profiling: Comparison with enzymatic assay. <i>Journal of Chromatography A</i> , 2014, 1367, 33-38.	1.8	19
65	The use of solid phase microextraction for metabolomic analysis of non-small cell lung carcinoma cell line (A549) after administration of combretastatin A4. <i>Scientific Reports</i> , 2019, 9, 402.	1.6	18
66	Assessment of solid phase microextraction as a sample preparation tool for untargeted analysis of brain tissue using liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2021, 1638, 461862.	1.8	18
67	Stability of the complex BSA-6-propyl-2-thiouracil in the presence of Cu-HCl and urea. <i>Journal of Molecular Structure</i> , 2006, 792-793, 243-248.	1.8	17
68	Monitoring of the influence of long-term oxidative stress and ischemia on the condition of kidneys using solid-phase microextraction chemical biopsy coupled with liquid chromatography-high-resolution mass spectrometry. <i>Journal of Separation Science</i> , 2020, 43, 1867-1878.	1.3	17
69	New chemical biopsy tool for spatially resolved profiling of human brain tissue in vivo. <i>Scientific Reports</i> , 2021, 11, 19522.	1.6	17
70	1HNMR study of methotrexate-serum albumin (MTX-SA) binding in rheumatoid arthritis. <i>Journal of Molecular Structure</i> , 2008, 891, 278-283.	1.8	16
71	Comparison of solid phase microextraction versus spectroscopic techniques for binding studies of carbamazepine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 66, 91-99.	1.4	16
72	Influence of myristic acid on furosemide binding to bovine serum albumin. Comparison with furosemide-human serum albumin complex. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 76, 6-11.	2.0	15

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73	Metabolic profiling of plasma from cardiac surgical patients concurrently administered with tranexamic acid: DI-SPME-LC-MS analysis. <i>Journal of Pharmaceutical Analysis</i> , 2014, 4, 6-13.	2.4	15
74	Application of in situ Solid-Phase Microextraction on Mediterranean Sponges for Untargeted Exometabolome Screening and Environmental Monitoring. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	15
75	Tropinone-Derived Alkaloids as Potent Anticancer Agents: Synthesis, Tyrosinase Inhibition, Mechanism of Action, DFT Calculation, and Molecular Docking Studies. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9050.	1.8	15
76	The effect of concentration of guanidine hydrochloride on the sulfasalazine-serum albumin complex. <i>Journal of Molecular Structure</i> , 2005, 744-747, 775-779.	1.8	14
77	Competition of cytarabine and aspirin in binding to serum albumin in multidrug therapy. <i>Biopolymers</i> , 2006, 81, 464-472.	1.2	14
78	Abrogating fibrinolysis does not improve bleeding or rFVIIa/rFVIII treatment in a non-mucosal venous injury model in haemophilic rodents. <i>Journal of Thrombosis and Haemostasis</i> , 2018, 16, 1369-1382.	1.9	14
79	A Review of Current and Emerging Trends in Donor Graft-Quality Assessment Techniques. <i>Journal of Clinical Medicine</i> , 2022, 11, 487.	1.0	14
80	Alterations of furosemide binding to serum albumin induced by increased level of fatty acid. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 51, 273-277.	1.4	13
81	The benefits of using solid-phase microextraction as a greener sample preparation technique. <i>Bioanalysis</i> , 2012, 4, 1263-1265.	0.6	13
82	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. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 4183-4194.	1.9	13
83	Mechanism of interactions between organophosphorus insecticides and human serum albumin: Solid-phase microextraction, thermodynamics and computational approach. <i>Chemosphere</i> , 2020, 253, 126698.	4.2	13
84	Comparison of Metabolomic Profiles of Organs in Mice of Different Strains Based on SPME-LC-HRMS. <i>Metabolites</i> , 2020, 10, 255.	1.3	13
85	Therapeutic drug monitoring of tranexamic acid in plasma and urine of renally impaired patients using solid phase microextraction. <i>Talanta</i> , 2021, 225, 121945.	2.9	13
86	Binding of 6-propyl-2-thiouracil to human serum albumin destabilized by chemical denaturants. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2009, 97, 54-59.	1.7	12
87	Fast Quantitation of Target Analytes in Small Volumes of Complex Samples by Matrix-Compatible Solid-Phase Microextraction Devices. <i>Angewandte Chemie</i> , 2016, 128, 7636-7640.	1.6	11
88	Comparing early liver graft function from heart beating and living donors: A pilot study aiming to identify new biomarkers of liver injury. <i>Biopharmaceutics and Drug Disposition</i> , 2017, 38, 326-339.	1.1	11
89	Glioblastoma Metabolomics-In Vitro Studies. <i>Metabolites</i> , 2021, 11, 315.	1.3	11
90	Metabolomic Phenotyping of Gliomas: What Can We Get with Simplified Protocol for Intact Tissue Analysis?. <i>Cancers</i> , 2022, 14, 312.	1.7	11

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91	Untargeted screening of phase I metabolism of combretastatin A4 by multi-tool analysis. <i>Talanta</i> , 2018, 182, 22-31.	2.9	10
92	High-Throughput Solid-Phase Microextractionâ€“Liquid Chromatographyâ€“Mass Spectrometry for Microbial Untargeted Metabolomics. <i>Methods in Molecular Biology</i> , 2019, 1859, 133-152.	0.4	10
93	Solid-phase microextraction: a multi-purpose microtechnique. <i>Bioanalysis</i> , 2011, 3, 1895-1899.	0.6	9
94	The influence of fatty acids on theophylline binding to human serum albumin. Comparative fluorescence study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 89, 270-275.	2.0	9
95	Untargeted metabolomics profiling of skeletal muscle samples from malignant hyperthermia susceptible patients. <i>Canadian Journal of Anaesthesia</i> , 2021, 68, 761-772.	0.7	9
96	Profiling of Carnitine Shuttle System Intermediates in Gliomas Using Solid-Phase Microextraction (SPME). <i>Molecules</i> , 2021, 26, 6112.	1.7	9
97	Solidâ€“Phase Microextraction: A Complementary Inâ€“Vivo Sampling Method to Microdialysis. <i>Angewandte Chemie</i> , 2013, 125, 12346-12348.	1.6	8
98	Using a Chemical Biopsy for Graft Quality Assessment. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	8
99	Application of Thin-Film Microextraction to Analyze Volatile Metabolites in A549 Cancer Cells. <i>Metabolites</i> , 2021, 11, 704.	1.3	8
100	Antimicrobial and Cytotoxic Activity of Novel Imidazolium-Based Ionic Liquids. <i>Molecules</i> , 2022, 27, 1974.	1.7	8
101	Solid-phase microextraction: a fit-for-purpose technique in biomedical analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 7005-7013.	1.9	8
102	Metabolomic fingerprinting of porcine lung tissue during pre-clinical prolonged exâ€“vivo lung perfusion using inâ€“vivo SPME coupled with LC-HRMS. <i>Journal of Pharmaceutical Analysis</i> , 2022, 12, 590-600.	2.4	8
103	One extraction tool for inâ€“vitro-inâ€“vivo extrapolation? SPME-based metabolomics of inâ€“vitro 2D, 3D, and inâ€“vivo mouse melanoma models. <i>Journal of Pharmaceutical Analysis</i> , 2021, 11, 667-674.	2.4	7
104	Investigating the Potential Use of Chemical Biopsy Devices to Characterize Brain Tumor Lipidomes. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3518.	1.8	7
105	Polypharmacotherapy in rheumatology: 1H NMR analysis of binding of phenylbutazone and methotrexate to serum albumin. <i>Journal of Molecular Structure</i> , 2011, 993, 302-307.	1.8	6
106	In situ chemical exploration of underwater ecosystems with microsampling/enrichment device. <i>Journal of Chromatography A</i> , 2014, 1328, 113-117.	1.8	6
107	On-Site Sampling and Extraction of Brain Tumors for Metabolomics and Lipidomics Analysis. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	6
108	A new strategy for brain tumour metabolomic analysis. <i>Medical Research Journal</i> , 2018, 3, 15-22.	0.1	6

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109	A model to assess acute and delayed lung toxicity of oxaliplatin during in vivo lung perfusion. Journal of Thoracic and Cardiovascular Surgery, 2021, 161, 1626-1635.	0.4	5
110	Coated Blade Spray-Mass Spectrometry as a New Approach for the Rapid Characterization of Brain Tumors. Molecules, 2022, 27, 2251.	1.7	5
111	Application of spin markers for study of liposome prepared by the modified reverse-phase evaporation method. Spectroscopy, 2008, 22, 33-41.	0.8	4
112	Thermotropic Phase Behavior of Liposome Entrapped 5-FU and LCV. Molecular Crystals and Liquid Crystals, 2010, 523, 282/[854]-288/[860].	0.4	4
113	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
114	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
115	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
116	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
117	Selected Drug-Likeness Properties of 2-Arylidene-indan-1,3-dione Derivatives" Chemical Compounds with Potential Anti-Cancer Activity. Molecules, 2021, 26, 5256.	1.7	3
118	Drug Analysis by SPME. , 2012, , 335-382.		2
119	In vivo Solid Phase Microextraction for Sampling of Oxylipins in Brain of Awake, Moving Rats. Angewandte Chemie, 2020, 132, 2413-2419.	1.6	2
120	Modern Analytical Chemistry in Clinics. Modern Chemistry & Applications, 2013, 01, .	0.2	0
121	Untargeted Metabolomic Assay of Pre frail Older Adults after Nutritional Intervention. Metabolites, 2022, 12, 378.	1.3	0