

# Paweł, Urban

## List of Publications by Year in descending order

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109  
papers

3,464  
citations

172457

29  
h-index

155660

55  
g-index

111  
all docs

111  
docs citations

111  
times ranked

4044  
citing authors

#	ARTICLE	IF	CITATIONS
1	Portable fizzy extraction ion-mobility spectrometry system. <i>Analytica Chimica Acta</i> , 2022, 1204, 339699.	5.4	4
2	Skin Metabolomics. <i>Trends in Endocrinology and Metabolism</i> , 2021, 32, 66-75.	7.1	39
3	Portable Pen-Probe Analyzer Based on Ion Mobility Spectrometry for <i>in Situ</i> Analysis of Volatile Organic Compounds Emanating from Surfaces and Wireless Transmission of the Acquired Spectra. <i>Analytical Chemistry</i> , 2021, 93, 2424-2432.	6.5	12
4	Robotized Noncontact Open-Space Mapping of Volatile Organic Compounds Emanating from Solid Specimens. <i>Analytical Chemistry</i> , 2021, 93, 6889-6894.	6.5	4
5	Catalytic Oxygenation-Mediated Extraction as a Facile and Green Way to Analyze Volatile Solutes. <i>Analytical Chemistry</i> , 2021, 93, 8923-8930.	6.5	2
6	BioChemPen for a Rapid Analysis of Compounds Supported on Solid Surfaces. <i>ACS Sensors</i> , 2021, 6, 3744-3752.	7.8	8
7	Telechemistry 2.0: Remote monitoring of fluorescent chemical reactions. <i>HardwareX</i> , 2021, 10, e00244.	2.2	2
8	Flat Disc-Shaped Sampling Probe and Online Re-extraction Apparatus for Mass Spectrometric Analysis of Skin Metabolites: A Proof of Concept. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 2803-2811.	2.8	0
9	Automation of mass spectrometric detection of analytes and related workflows: A review. <i>Talanta</i> , 2020, 208, 120304.	5.5	30
10	Rapid Extraction and Analysis of Volatile Solutes with an Effervescent Tablet. <i>Analytical Chemistry</i> , 2020, 92, 2756-2763.	6.5	14
11	On-Line Coupling of Simultaneous Distillation-Extraction Using the Likens-Nickerson Apparatus with Gas Chromatography. <i>Analytical Chemistry</i> , 2020, 92, 1228-1235.	6.5	7
12	Please Avoid Plotting Analytical Response against Logarithm of Concentration. <i>Analytical Chemistry</i> , 2020, 92, 10210-10212.	6.5	22
13	Elevating Chemistry Research with a Modern Electronics Toolkit. <i>Chemical Reviews</i> , 2020, 120, 9482-9553.	47.7	49
14	Sample Flow Rate Scan in Electrospray Ionization Mass Spectrometry Reveals Alterations in Protein Charge State Distribution. <i>Analytical Chemistry</i> , 2020, 92, 13042-13049.	6.5	15
15	Temporal Correlations of Skin and Blood Metabolites with Clinical Outcomes of Biologic Therapy in Psoriasis. <i>Journal of Applied Laboratory Medicine</i> , 2020, 5, 877-888.	1.3	12
16	Facilitating chemical and biochemical experiments with electronic microcontrollers and single-board computers. <i>Nature Protocols</i> , 2020, 15, 925-990.	12.0	29
17	Recent advances in robotic protein sample preparation for clinical analysis and other biomedical applications. <i>Clinica Chimica Acta</i> , 2020, 507, 104-116.	1.1	54
18	Agarose-Based Gel-Phase Microextraction Technique for Quick Sampling of Polar Analytes Adsorbed on Surfaces. <i>ACS Omega</i> , 2019, 4, 19063-19070.	3.5	4

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19	Automation of fizzy extraction enabled by inexpensive open-source modules. <i>Heliyon</i> , 2019, 5, e01639.	3.2	14
20	Temporal Analysis of Conformers in the Course of pH Scan Directed by Ureaâ€Urease Reactionâ€A â€œProtein Clockâ€ Analytical Chemistry, 2019, 91, 8814-8819.	6.5	13
21	On-line coupling of fizzy extraction with gas chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2511-2520.	3.7	14
22	Telechemistry: monitoring chemical reactions<i>via</i>the cloud using the Particle Photon Wi-Fi module. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1616-1622.	3.7	14
23	Microanalysis Using Acoustically Actuated Droplets Pinned Onto a Thread. <i>IEEE Access</i> , 2019, 7, 154743-154749.	4.2	7
24	Dry ice fog extraction of volatile organic compounds. <i>Journal of Chromatography A</i> , 2019, 1585, 196-201.	3.7	6
25	Programmable flow rate scanner for evaluating detector sensitivity regime. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 992-998.	7.8	11
26	Blotting paper as a disposable tool for sampling chemical residues from skin surface. <i>Journal of Food and Drug Analysis</i> , 2019, 27, 610-613.	1.9	2
27	Clinical Analysis by Mass Spectrometry., 2018, , .		0
28	Automated Dual-Chamber Sampling System to Follow Dynamics of Volatile Organic Compounds Emitted by Biological Specimens. <i>Analytical Chemistry</i> , 2018, 90, 13848-13854.	6.5	7
29	Prototyping Instruments for the Chemical Laboratory Using Inexpensive Electronic Modules. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11074-11077.	13.8	40
30	Prototypenâ€Entwicklung von Instrumenten fÃ¼r das chemische Laboratorium mithilfe von preiswerten Elektronikmodulen. <i>Angewandte Chemie</i> , 2018, 130, 11241-11245.	2.0	3
31	Chemical clocks, oscillations, and other temporal effects in analytical chemistry: oddity or viable approach?. <i>Analyst, The</i> , 2018, 143, 3514-3525.	3.5	9
32	Kinetic study of continuous liquid-liquid extraction of wine with real-time detection. <i>Analytica Chimica Acta</i> , 2018, 1034, 85-91.	5.4	11
33	Colorful Bioluminescence: Exploring ATP's Effect On The Firefly Luciferase Reaction. , 2018, , .		0
34	Probing Skin for Metabolites and Topical Drugs with Hydrogel Micropatches. <i>Analytical Chemistry</i> , 2017, 89, 2664-2670.	6.5	27
35	The dawn of unmanned analytical laboratories. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 88, 41-52.	11.4	71
36	Spontaneous luminescence color change in the firefly luciferase assay system. <i>Analytical Biochemistry</i> , 2017, 539, 54-59.	2.4	2

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37	Fizzy Extraction of Volatile Organic Compounds Combined with Atmospheric Pressure Chemical Ionization Quadrupole Mass Spectrometry. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	12
38	Dual robotic arm "production line" mass spectrometry assay guided by multiple Arduino-type microcontrollers. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 608-616.	7.8	33
39	Cool Mist Scavenging of Gas-Phase Molecules. <i>Analytical Sciences</i> , 2017, 33, 1161-1167.	1.6	1
40	Prototype of an Interface for Hyphenating Distillation with Gas Chromatography and Mass Spectrometry. <i>Mass Spectrometry</i> , 2017, 6, S0061-S0061.	0.6	5
41	A Role Model with Endless Enthusiasm for Science: In Memory of Tsutomu Masujima. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2017, 65, 150-153.	0.1	0
42	Clarifying Misconceptions about Mass and Concentration Sensitivity. <i>Journal of Chemical Education</i> , 2016, 93, 984-987.	2.3	20
43	Self-built labware stimulates creativity. <i>Nature</i> , 2016, 532, 313-313.	27.8	11
44	Quantitative mass spectrometry of unconventional human biological matrices. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150380.	3.4	23
45	Fizzy Extraction of Volatile and Semivolatile Compounds into the Gas Phase. <i>Analytical Chemistry</i> , 2016, 88, 8735-8740.	6.5	33
46	Quantitative mass spectrometry: an overview. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150382.	3.4	61
47	Plug-Volume-Modulated Dilution Generator for Flask-Free Chemistry. <i>Analytical Chemistry</i> , 2016, 88, 11663-11669.	6.5	8
48	In-Oleo Microgasometry of Nanoliter-Scale Gas Volumes with Image-Based Detection. <i>Analytical Chemistry</i> , 2016, 88, 11368-11372.	6.5	0
49	Hydrogel Micropatch and Mass Spectrometry-Assisted Screening for Psoriasis-Related Skin Metabolites. <i>Clinical Chemistry</i> , 2016, 62, 1120-1128.	3.2	52
50	One-Step Detection of Major Lipid Components in Submicroliter Volumes of Unpurified Liposome and Cell Suspensions. <i>Analytical Chemistry</i> , 2016, 88, 7337-7343.	6.5	4
51	Mass spectrometry-guided refinement of chemical energy buffers. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20150812.	2.1	3
52	Nucleotide-Dependent Bioautocatalytic Timer Reaction. <i>ACS Synthetic Biology</i> , 2016, 5, 962-968.	3.8	5
53	Facile multi-dimensional profiling of chemical gradients at the millimetre scale. <i>Analyst</i> , 2016, 141, 150-156.	3.5	2
54	Capillary hydrodynamic chromatography reveals temporal profiles of cell aggregates. <i>Analytica Chimica Acta</i> , 2016, 910, 75-83.	5.4	4

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55	Micropatch arrays pads for non-invasive spatial and temporal profiling of topical drugs on skin surface. <i>Journal of Mass Spectrometry</i> , 2015, 50, 1321-1325.	1.6	27
56	Microcontroller-Assisted Compensation of Adenosine Triphosphate Levels: Instrument and Method Development. <i>Scientific Reports</i> , 2015, 5, 8135.	3.3	12
57	On-line monitoring of Soxhlet extraction by chromatography and mass spectrometry to reveal temporal extract profiles. <i>Analytica Chimica Acta</i> , 2015, 881, 74-81.	5.4	20
58	Fusion of microlitre water-in-oil droplets for simple, fast and green chemical assays. <i>Analyst, The</i> , 2015, 140, 5145-5151.	3.5	6
59	A compact 3D-printed interface for coupling open digital microchips with Venturi easy ambient sonic-spray ionization mass spectrometry. <i>Analyst, The</i> , 2015, 140, 1495-1501.	3.5	30
60	Automated on-line liquid-liquid extraction system for temporal mass spectrometric analysis of dynamic samples. <i>Analytica Chimica Acta</i> , 2015, 894, 35-43.	5.4	26
61	Universal electronics for miniature and automated chemical assays. <i>Analyst, The</i> , 2015, 140, 963-975.	3.5	73
62	Robotics-assisted mass spectrometry assay platform enabled by open-source electronics. <i>Biosensors and Bioelectronics</i> , 2015, 64, 260-268.	10.1	44
63	Open-Source Electronics As a Technological Aid in Chemical Education. <i>Journal of Chemical Education</i> , 2014, 91, 751-752.	2.3	46
64	Name Concepts in Analytical Science. <i>Journal of Chemical Education</i> , 2014, 91, 1753-1756.	2.3	2
65	Automated system for extraction and instantaneous analysis of millimeter-sized samples. <i>RSC Advances</i> , 2014, 4, 10693.	3.6	21
66	In quest for chemomarkers to classify Taiwanese teas. <i>Analytical Methods</i> , 2014, 6, 3013.	2.7	0
67	A pinch-valve interface for automated sampling and monitoring of dynamic processes by gas chromatography-mass spectrometry. <i>Analytical Methods</i> , 2014, 6, 4652.	2.7	16
68	On the dynamics of kefir volatome. <i>RSC Advances</i> , 2014, 4, 28865.	3.6	9
69	Spectral imaging of chemical reactions using a computer display and a digital camera. <i>RSC Advances</i> , 2014, 4, 31094.	3.6	10
70	Compartmentalised chemistry: from studies on the origin of life to engineered biochemical systems. <i>New Journal of Chemistry</i> , 2014, 38, 5135-5141.	2.8	31
71	Hydrogel Micropatches for Sampling and Profiling Skin Metabolites. <i>Analytical Chemistry</i> , 2014, 86, 2337-2344.	6.5	62
72	Analysis of single algal cells by combining mass spectrometry with Raman and fluorescence mapping. <i>Analyst, The</i> , 2013, 138, 6732.	3.5	56

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73	Liquid-phase and gas-phase investigation of biomolecules in a single experiment. <i>Analytical Methods</i> , 2013, 5, 5908.	2.7	7
74	Coffee-ring effects in laser desorption/ionization mass spectrometry. <i>Analytica Chimica Acta</i> , 2013, 766, 77-82.	5.4	59
75	Time-resolved mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 44, 106-120.	11.4	45
76	Advances in ultrasensitive mass spectrometry of organic molecules. <i>Chemical Society Reviews</i> , 2013, 42, 5299.	38.1	61
77	A hybrid nanoparticle matrix for mass spectrometry. <i>RSC Advances</i> , 2013, 3, 6865.	3.6	7
78	Mass spectrometry-based metabolomics of single yeast cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8790-8794.	7.1	214
79	Spatiotemporal effects of a bioautocatalytic chemical wave revealed by time-resolved mass spectrometry. <i>RSC Advances</i> , 2013, 4, 2103-2108.	3.6	14
80	Recording temporal characteristics of convection currents by continuous and segmented-flow sampling. <i>RSC Advances</i> , 2012, 2, 12431.	3.6	9
81	On-Target Labeling of Intracellular Metabolites Combined with Chemical Mapping of Individual Hyphae Revealing Cytoplasmic Relocation of Isotopologues. <i>Analytical Chemistry</i> , 2012, 84, 5110-5116.	6.5	14
82	Isotope Label-Aided Mass Spectrometry Reveals the Influence of Environmental Factors on Metabolism in Single Eggs of Fruit Fly. <i>PLoS ONE</i> , 2012, 7, e50258.	2.5	6
83	Carbon-13 labelling strategy for studying the ATP metabolism in individual yeast cells by micro-arrays for mass spectrometry. <i>Molecular BioSystems</i> , 2011, 7, 2837.	2.9	35
84	Microscale MALDI Imaging of Outer-Layer Lipids in Intact Egg Chambers from <i>Drosophila melanogaster</i> . <i>Analytical Chemistry</i> , 2011, 83, 3918-3925.	6.5	18
85	Capillary Action-Supported Contactless Atmospheric Pressure Ionization for the Combined Sampling and Mass Spectrometric Analysis of Biomolecules. <i>Analytical Chemistry</i> , 2011, 83, 2866-2869.	6.5	37
86	Multidimensional Analysis of Single Algal Cells by Integrating Microspectroscopy with Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 1843-1849.	6.5	59
87	Lab-on-a-plate: Extending the functionality of MALDI-MS and LDI-MS targets. <i>Mass Spectrometry Reviews</i> , 2011, 30, 435-478.	5.4	45
88	Single-Cell MALDI-MS as an Analytical Tool for Studying Intrapopulation Metabolic Heterogeneity of Unicellular Organisms. <i>Analytical Chemistry</i> , 2010, 82, 7394-7400.	6.5	132
89	Analytical techniques for single-cell metabolomics: state of the art and trends. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2493-2504.	3.7	136
90	Miniature flowing atmospheric-pressure afterglow ion source for facile interfacing of CE with MS. <i>Electrophoresis</i> , 2010, 31, 3597-3605.	2.4	20

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91	High-density micro-arrays for mass spectrometry. <i>Lab on A Chip</i> , 2010, 10, 3206.	6.0	105
92	Mass spectrometric method incorporating enzymatic amplification for attomole-level analysis of target metabolites in biological samples. <i>Chemical Communications</i> , 2010, 46, 2212.	4.1	15
93	Electrophoretic methods for separation of nanoparticles. <i>Journal of Separation Science</i> , 2009, 32, 1889-1906.	2.5	148
94	Tufted Hairgrass ( <i>Deschampsia caespitosa</i> ) Exhibits a Lower Photosynthetic Plasticity than Antarctic Hairgrass ( <i>D. antarctica</i> ). <i>Journal of Integrative Plant Biology</i> , 2009, 51, 593-603.	8.5	4
95	Nanoparticles: Their potential toxicity, waste and environmental management. <i>Waste Management</i> , 2009, 29, 2587-2595.	7.4	521
96	Facile analysis of metabolites by capillary electrophoresis coupled to matrix-assisted laser desorption/ionization mass spectrometry using target plates with polysilazane nanocoating and grooves. <i>Analyst, The</i> , 2009, 134, 1536.	3.5	26
97	Interfacing Microfluidics and Laser Desorption/Ionization Mass Spectrometry by Continuous Deposition for Application in Single Cell Analysis. <i>Chimia</i> , 2009, 63, 185.	0.6	19
98	Multi-compound electrophoretic assays for tyramine oxidase with a UV area detector imaging multiple windows on a looped capillary. <i>Journal of Chromatography A</i> , 2008, 1206, 52-63.	3.7	12
99	Pilot Study of Bioaccumulation and Distribution of Cesium, Potassium, Sodium and Calcium in King Oyster Mushroom ( <i>Pleurotus Eryngii</i> ) Grown Under Controlled Conditions. <i>International Journal of Phytoremediation</i> , 2008, 10, 503-514.	3.1	8
100	Electrophoretic method for assessment of substrate promiscuity of a heterogeneous biocatalyst using an area imaging ultraviolet detector. <i>Analyst, The</i> , 2007, 132, 979.	3.5	6
101	Electrophoretic assay for penicillinase: Substrate specificity screening by parallel CE with an active pixel sensor. <i>Electrophoresis</i> , 2007, 28, 1926-1936.	2.4	19
102	Electrophoretically mediated microanalysis of a nicotinamide adenine dinucleotide-dependent enzyme and its facile multiplexing using an active pixel sensor UV detector. <i>Journal of Chromatography A</i> , 2007, 1162, 132-140.	3.7	17
103	On-line low-volume transesterification-based assay for immobilized lipases. <i>Journal of Biotechnology</i> , 2006, 126, 508-518.	3.8	12
104	1,4-Benzoquinone-based electrophoretic assay for glucose oxidase. <i>Analytical Biochemistry</i> , 2006, 359, 35-39.	2.4	14
105	Visualization of electrophoretically mediated in-capillary reactions using a complementary metal oxide semiconductor-based absorbance detector. <i>Analytica Chimica Acta</i> , 2006, 570, 1-7.	5.4	21
106	Enzymatic microreactors in chemical analysis and kinetic studies. <i>Biotechnology Advances</i> , 2006, 24, 42-57.	11.7	194
107	Separation and online preconcentration by multistep stacking with large-volume injection of anabolic steroids by capillary electrokinetic chromatography using charged cyclodextrins and UV-absorption detection. <i>Journal of Separation Science</i> , 2005, 28, 2200-2209.	2.5	18
108	Accumulation and translocation of cesium-137 in onion plants ( <i>Allium cepa</i> ). <i>Environmental and Experimental Botany</i> , 2004, 51, 3-7.	4.2	23

#	ARTICLE	IF	CITATIONS
109	On the mechanism of automated fizzy extraction. , 0, 1, e2.		7