

# BoÅ¼ena ZabięgaÅ¸a

## List of Publications by Year in descending order

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Version: 2024-02-01

79  
papers

2,631  
citations

201674

27  
h-index

197818

49  
g-index

82  
all docs

82  
docs citations

82  
times ranked

2756  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Passive sampling and/or extraction techniques in environmental analysis: a review. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 381, 279-301.  | 3.7  | 321       |
| 2  | Advances in passive sampling in environmental studies. <i>Analytica Chimica Acta</i> , 2007, 602, 141-163.  | 5.4  | 221       |
| 3  | Passive sampling for long-term monitoring of organic pollutants in water. <i>TrAC - Trends in Analytical Chemistry</i> , 2000, 19, 446-459.   | 11.4 | 143       |
| 4  | Passive sampling as a tool for obtaining reliable analytical information in environmental quality monitoring. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 273-296.                           | 3.7  | 139       |
| 5  | Indoor air quality in public utility environmentsâ€™a review. <i>Environmental Science and Pollution Research</i> , 2017, 24, 11166-11176.  | 5.3  | 114       |
| 6  | PBDEs in environmental samples: Sampling and analysis. <i>Talanta</i> , 2012, 93, 1-17.   | 5.5  | 105       |
| 7  | Current air quality analytics and monitoring: A review. <i>Analytica Chimica Acta</i> , 2015, 853, 116-126.   | 5.4  | 104       |
| 8  | Monitoring VOCs in atmospheric air II. Sample collection and preparation. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 1101-1112.   | 11.4 | 89        |
| 9  | Indoor air quality (IAQ), pollutants, their sources and concentration levels. <i>Building and Environment</i> , 1992, 27, 339-356.  | 6.9  | 77        |
| 10 | Monitoring VOCs in atmospheric air I. On-line gas analyzers. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 1092-1100.  | 11.4 | 56        |
| 11 | Developments in ultrasound-assisted microextraction techniques for isolation and preconcentration of organic analytes from aqueous samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 49, 45-54. | 11.4 | 55        |
| 12 | Permeation passive sampling as a tool for the evaluation of indoor air quality. <i>Atmospheric Environment</i> , 2002, 36, 2907-2916.   | 4.1  | 52        |
| 13 | BTEX concentration levels in urban air in the area of the Tri-City agglomeration (Gdansk, Gdynia, Tj ETQq1 1 0.784314 rgBT /Overlock<br>3.3 51  |      |           |
| 14 | Occurrence and levels of polybrominated diphenyl ethers (PBDEs) in house dust and hair samples from Northern Poland; an assessment of human exposure. <i>Chemosphere</i> , 2014, 110, 91-96.                | 8.2  | 49        |
| 15 | Indoor air quality of everyday use spaces dedicated to specific purposesâ€™a review. <i>Environmental Science and Pollution Research</i> , 2018, 25, 2065-2082.   | 5.3  | 47        |
| 16 | Monitoring and analytics of semivolatile organic compounds (SVOCs) in indoor air. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 1751-1769.   | 3.7  | 44        |
| 17 | Application of Passive Samplers in Monitoring of Organic Constituents of Air. <i>Critical Reviews in Analytical Chemistry</i> , 2007, 37, 51-78.  | 3.5  | 43        |
| 18 | Solventless sample preparation techniques based on solid- and vapour-phase extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 277-300.  | 3.7  | 38        |

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|----|--|------|-----------|
| 19 | Testing and sampling devices for monitoring volatile and semi-volatile organic compounds in indoor air. <i>TrAC - Trends in Analytical Chemistry</i> , 2012, 32, 76-86.  | 11.4 | 38        |
| 20 | Application of passive sampling technique in monitoring research on quality of atmospheric air in the area of Tczew, Poland. <i>International Journal of Environmental Analytical Chemistry</i> , 2014, 94, 151-167.   | 3.3  | 34        |
| 21 | Application of Passive Sampling Technique for Monitoring of BTEX Concentration in Urban Air: Field Comparison of Different Types of Passive Samplers. <i>Journal of Chromatographic Science</i> , 2010, 48, 167-175.   | 1.4  | 33        |
| 22 | The influence of meteorological conditions and anthropogenic activities on the seasonal fluctuations of BTEX in the urban air of the Hanseatic city of Gdansk, Poland. <i>Environmental Science and Pollution Research</i> , 2015, 22, 11940-11954.                | 5.3  | 33        |
| 23 | Î±-Pinene, 3-carene and d-limonene in indoor air of Polish apartments: The impact on air quality and human exposure. <i>Science of the Total Environment</i> , 2014, 468-469, 985-995.   | 8.0  | 32        |
| 24 | The effect of anthropogenic activity on BTEX, NO <sub>2</sub> , SO <sub>2</sub> , and CO concentrations in urban air of the spa city of Sopot and medium-industrialized city of Tczew located in North Poland. <i>Environmental Research</i> , 2016, 147, 513-524. | 7.5  | 32        |
| 25 | Measurement of benzene concentration in urban air using passive sampling. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 1067-1082.  | 3.7  | 30        |
| 26 | Human hair as a biomarker of human exposure to persistent organic pollutants (POPs). <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 47, 84-98.   | 11.4 | 30        |
| 27 | Bioreactor shoot cultures of <i>Rhododendron tomentosum</i> ( <i>Ledum palustre</i> ) for a large-scale production of bioactive volatile compounds. <i>Plant Cell, Tissue and Organ Culture</i> , 2017, 131, 51-64.  | 2.3  | 29        |
| 28 | Sample preparation for gas chromatographic determination of halogenated volatile organic compounds in environmental and biological samples. <i>Journal of Chromatography A</i> , 2009, 1216, 422-441.  | 3.7  | 27        |
| 29 | Determination of polybrominated diphenyl ethers in house dust using standard addition method and gas chromatography with electron capture and mass spectrometric detection. <i>Journal of Chromatography A</i> , 2012, 1249, 201-214.                              | 3.7  | 25        |
| 30 | The miniaturised emission chamber system and home-made passive flux sampler studies of monoaromatic hydrocarbons emissions from selected commercially-available floor coverings. <i>Building and Environment</i> , 2017, 123, 1-13.                                | 6.9  | 24        |
| 31 | The emissions of monoaromatic hydrocarbons from small polymeric toys placed in chocolate food products. <i>Science of the Total Environment</i> , 2015, 530-531, 290-296.  | 8.0  | 23        |
| 32 | Elicitation strategies for the improvement of essential oil content in <i>Rhododendron tomentosum</i> ( <i>Ledum palustre</i> ) bioreactor-grown microshoots. <i>Industrial Crops and Products</i> , 2018, 123, 461-469.   | 5.2  | 23        |
| 33 | Mobile Systems (Portable, Handheld, Transportable) for Monitoring Air Pollution. <i>Critical Reviews in Analytical Chemistry</i> , 2012, 42, 2-15.   | 3.5  | 22        |
| 34 | Calibration of Permeation Passive Samplers with Silicone Membranes Based on Physicochemical Properties of the Analytes. <i>Analytical Chemistry</i> , 2003, 75, 3182-3192.   | 6.5  | 21        |
| 35 | A Comparative Study of the Performance of Passive Samplers. <i>Journal of the Air and Waste Management Association</i> , 2011, 61, 260-268.  | 1.9  | 19        |
| 36 | Application of the chromatographic retention index system for the estimation of the calibration constants of permeation passive samplers with polydimethylsiloxane membranes. <i>Journal of Chromatography A</i> , 2006, 1117, 19-30.                              | 3.7  | 18        |

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|----|--|-----|-----------|
| 37 | Investigations on the Applicability of some Commercial Polyethylene Films to Permeation-type Passive Samplers for Organic Vapours. <i>Indoor Air</i> , 1992, 2, 115-120.   | 4.3 | 17        |
| 38 | An investigation of selected monoaromatic hydrocarbons released from the surface of polystyrene lids used in coffee-to-go cups. <i>Microchemical Journal</i> , 2017, 133, 496-505.   | 4.5 | 17        |
| 39 | Changes in concentration levels of selected VOCs in newly erected and remodelled buildings in GdaÅ¼sk. <i>Chemosphere</i> , 1999, 39, 2035-2046.   | 8.2 | 16        |
| 40 | Screening of volatile organic compounds as a source for indoor pollution. <i>International Journal of Environment and Health</i> , 2007, 1, 13.  | 0.3 | 15        |
| 41 | Spatial and Seasonal Patterns of Benzene, Toluene, Ethylbenzene, and Xylenes in the GdaÅ¼sk, Poland and Surrounding Areas Determined Using Radiello Passive Samplers. <i>Journal of Environmental Quality</i> , 2010, 39, 896-906.   | 2.0 | 15        |
| 42 | Small-scale passive emission chamber for screening studies on monoterpene emission flux from the surface of wood-based indoor elements. <i>Science of the Total Environment</i> , 2014, 481, 35-46.  | 8.0 | 15        |
| 43 | Concentrations of monoaromatic hydrocarbons in the air of the underground car park and individual garages attached to residential buildings. <i>Science of the Total Environment</i> , 2016, 573, 767-777.   | 8.0 | 15        |
| 44 | Real-time monitoring of the emission of volatile organic compounds from polylactide 3D printing filaments. <i>Science of the Total Environment</i> , 2022, 805, 150181.  | 8.0 | 14        |
| 45 | Evaluation of Pollution Degree of the Odra River Basin with Organic Compounds after the 1997 Summer Flood - General Comments. <i>Clean - Soil, Air, Water</i> , 1999, 27, 343-349.   | 0.6 | 13        |
| 46 | The Relationships Between BTEX, NO <sub>x</sub> , and O <sub>3</sub> Concentrations in Urban Air in Gdansk and Gdynia, Poland. <i>Clean - Soil, Air, Water</i> , 2014, 42, 1326-1336.  | 1.1 | 13        |
| 47 | Validated HPTLC method for determination of ledol and alloaromadendrene in the essential oil fractions of <i>Rhododendron tomentosum</i> plants and in vitro cultures and bioautography for their activity screening. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1086, 63-72. | 2.3 | 13        |
| 48 | In Vitro Propagation of <i>Rhododendron tomentosum</i> â€” an Endangered Essential Oil Bearing Plant from Peatland. <i>Acta Biologica Cracoviensia Series Botanica</i> , 2016, 58, 29-43.  | 0.5 | 12        |
| 49 | Homogeneity study of candidate reference material (contaminated soil) based on determination of selected metals, PCBs and PAHs. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 128, 1-12.  | 5.0 | 12        |
| 50 | Determination of polybrominated diphenyl ethers (PBDEs) in dust samples collected in air conditioning filters of different usage â€” method development. <i>Journal of Chromatography A</i> , 2018, 1565, 57-67.   | 3.7 | 12        |
| 51 | Polybrominated diphenyl ether (PBDE) concentrations in dust from various indoor environments in GdaÅ¼sk, Poland: Prediction of concentrations in indoor air and assessment of exposure of adults. <i>Science of the Total Environment</i> , 2020, 734, 139437.   | 8.0 | 12        |
| 52 | Applicability of Silicone Membrane Passive Samplers for Monitoring of Indoor Air Quality. <i>Analytical Letters</i> , 2000, 33, 1361-1372.   | 1.8 | 11        |
| 53 | Production of essential oils from in vitro cultures of <i>Caryopteris</i> species and comparison of their concentrations with in vivo plants. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.  | 2.1 | 11        |
| 54 | The estimation of total volatile organic compounds emissions generated from peroxide-cured natural rubber/polycaprolactone blends. <i>Microchemical Journal</i> , 2016, 127, 30-35.  | 4.5 | 11        |

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|----|--|------|-----------|
| 55 | Miniaturized Passive Emission Chambers for In Situ Measurement of Emissions of Volatile Organic Compounds. <i>Critical Reviews in Analytical Chemistry</i> , 2013, 43, 55-61.  | 3.5  | 10        |
| 56 | Monitoring the BTEX Volatiles during 3D Printing with Acrylonitrile Butadiene Styrene (ABS) Using Electronic Nose and Proton Transfer Reaction Mass Spectrometry. <i>Sensors</i> , 2020, 20, 5531.   | 3.8  | 10        |
| 57 | Chemical variability of <i>Rhododendron tomentosum</i> ( <i>Ledum palustre</i> ) essential oils and their pro-apoptotic effect on lymphocytes and rheumatoid arthritis synoviocytes. <i>FÅ-toterapÅ-Åç</i> , 2019, 139, 104402.  | 2.2  | 9         |
| 58 | Matrix solid-phase dispersion (MSPD) as simple and useful sample preparation technique for determination of polybrominated diphenyl ethers (PBDEs) in dust. <i>Analytica Chimica Acta</i> , 2019, 1084, 33-42.   | 5.4  | 9         |
| 59 | Current trends in analytical strategies for determination of polybrominated diphenyl ethers (PBDEs) in samples with different matrix compositions Å“ Part 1.: Screening of new developments in sample preparation. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 132, 115255. | 11.4 | 9         |
| 60 | Recent advances on SOA formation in indoor air, fate and strategies for SOA characterization in indoor air - A review. <i>Science of the Total Environment</i> , 2022, 843, 156948.  | 8.0  | 8         |
| 61 | Determination of Selected Organic Pollutants in Indoor Air using Permeation Passive Samplers. <i>International Journal of Environmental Analytical Chemistry</i> , 1989, 37, 139-147.  | 3.3  | 7         |
| 62 | The home-made in situ passive flux sampler for the measurement of monoterpene emission flux: preliminary studies. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 6879-6884.  | 3.7  | 6         |
| 63 | Investigation on air quality of specific indoor environmentsÅ“ spa salons located in Gdynia, Poland. <i>Environmental Science and Pollution Research</i> , 2020, 28, 59214-59232.  | 5.3  | 5         |
| 64 | Accumulation of volatile constituents in agar and bioreactor shoot cultures of <i>Verbena officinalis</i> L.. <i>Plant Cell, Tissue and Organ Culture</i> , 2021, 144, 671-679.  | 2.3  | 5         |
| 65 | Active Sampling of Air. <i>Comprehensive Analytical Chemistry</i> , 2016, , 167-201.   | 1.3  | 4         |
| 66 | Investigation of the Dynamism of Nanosized SOA Particle Formation in Indoor Air by a Scanning Mobility Particle Sizer and Proton-Transfer-Reaction Mass Spectrometry. <i>Molecules</i> , 2020, 25, 2202.   | 3.8  | 4         |
| 67 | Emission profile of butan-2-one oxime from commercially available neutral silicone sealant. <i>Microchemical Journal</i> , 2020, 156, 104982.  | 4.5  | 4         |
| 68 | FROM HARVESTING TO DISTILLATION Å“ EFFECT OF ANALYTICAL PROCEDURES ON THE YIELD AND CHEMICAL COMPOSITION OF RHODODENDRON TOMENTOSUM ( <i>LEDUM PALUSTRE</i> ) ESSENTIAL OIL. <i>Acta Poloniae Pharmaceutica</i> , 2019, 76, 83-92.   | 0.1  | 4         |
| 69 | Current trends in analytical strategies for the determination of polybrominated diphenyl ethers (PBDEs) in samples with different matrix compositions Å“ Part 2: New approaches to PBDEs determination. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 132, 115889.            | 11.4 | 3         |
| 70 | Small Polymeric Toys Placed in Child-Dedicated Chocolate Food ProductsÅ“Do They Contain Harmful Chemicals? Examination of Quality by Example of Selected VOCs and SVOCs. <i>Exposure and Health</i> , 2022, 14, 203-216.   | 4.9  | 3         |
| 71 | Emission Profiles of Volatiles during 3D Printing with ABS, ASA, Nylon, and PETG Polymer Filaments. <i>Molecules</i> , 2022, 27, 3814.   | 3.8  | 3         |
| 72 | Chapter 4 Use of permeation passive samplers in air monitoring. <i>Comprehensive Analytical Chemistry</i> , 2007, , 85-106.  | 1.3  | 2         |

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|----|---|------|-----------|
| 73 | Employment of passive sampling in monitoring indoor air quality in selected residences in a Tri-city area in Poland. <i>Toxicological and Environmental Chemistry</i> , 2005, 87, 529-541.  | 1.2  | 1         |
| 74 | Monitoring with the use of passive samplers a useful source of information for the mapping and modelling of urban atmosphere pollution. <i>International Journal of Environment and Health</i> , 2007, 1, 268.                        | 0.3  | 1         |
| 75 | Unconventional and user-friendly sampling techniques of semi-volatile organic compounds present in an indoor environment: An approach to human exposure assessment. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 154, 116669. | 11.4 | 1         |
| 76 | Green Sample Collection. , 2017, , 379-414.   |      | 0         |
| 77 | Mass Spectrometry-Based Direct Analytical Techniques. <i>Green Chemistry and Sustainable Technology</i> , 2019, , 75-101.   | 0.7  | 0         |
| 78 | Real-time monitoring of volatiles and particles emitted from thermoplastic filaments during 3D printing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1150, 012001.  | 0.6  | 0         |
| 79 | 165. Permeation Passive Sampling in Air Analysis. , 2006, , .   |      | 0         |