

# Pavel MikuÅ¾ka

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

1,481  
citations

361413

20  
h-index

361022

35  
g-index

67  
all docs

67  
docs citations

67  
times ranked

2129  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous determination of nitrite and nitrate in water by chemiluminescent flow-injection analysis. <i>Analytica Chimica Acta</i> , 2003, 495, 225-232.	5.4	136
2	Comparative analysis of organic and elemental carbon concentrations in carbonaceous aerosols in three European cities. <i>Atmospheric Environment</i> , 2007, 41, 5972-5983.	4.1	128
3	Organic and elemental carbon concentrations in carbonaceous aerosols during summer and winter sampling campaigns in Barcelona, Spain. <i>Atmospheric Environment</i> , 2006, 40, 2180-2193.	4.1	102
4	Polycyclic aromatic hydrocarbons and hopanes in PM1 aerosols in urban areas. <i>Atmospheric Environment</i> , 2013, 47, 27-37.	4.1	82
5	Comparison of emissions of gaseous and particulate pollutants from the combustion of biomass and coal in modern and old-type boilers used for residential heating in the Czech Republic, Central Europe. <i>Chemosphere</i> , 2019, 229, 51-59.	8.2	57
6	Source apportionment of aerosol particles at a European air pollution hot spot using particle number size distributions and chemical composition. <i>Environmental Pollution</i> , 2018, 234, 145-154.	7.5	50
7	Blends of butanol and hydrotreated vegetable oils as drop-in replacement for diesel engines: Effects on combustion and emissions. <i>Fuel</i> , 2017, 197, 407-421.	6.4	48
8	Seasonal variations of monosaccharide anhydrides in PM1 and PM2.5 aerosol in urban areas. <i>Atmospheric Environment</i> , 2010, 44, 5148-5155.	4.1	46
9	Dynamics of fine particles and photo-oxidants in the Eastern Mediterranean (SUB-AERO). <i>Atmospheric Environment</i> , 2006, 40, 6214-6228.	4.1	44
10	Continuous fluorescence determination of formaldehyde in air. <i>Analytica Chimica Acta</i> , 2004, 518, 51-57.	5.4	40
11	The influence of local emissions and regional air pollution transport on a European air pollution hot spot. <i>Environmental Science and Pollution Research</i> , 2019, 26, 1675-1692.	5.3	36
12	Inhaled Cadmium Oxide Nanoparticles: Their in Vivo Fate and Effect on Target Organs. <i>International Journal of Molecular Sciences</i> , 2016, 17, 874.	4.1	35
13	Ozone flux over a Norway spruce forest and correlation with net ecosystem production. <i>Environmental Pollution</i> , 2011, 159, 1024-1034.	7.5	34
14	Flow-injection chemiluminescence determination of formaldehyde in water. <i>Talanta</i> , 2007, 71, 900-905.	5.5	31
15	Determination of the bioaccessible fraction of metals in urban aerosol using simulated lung fluids. <i>Atmospheric Environment</i> , 2016, 140, 469-475.	4.1	28
16	Content of metals in emissions from gasoline, diesel, and alternative mixed biofuels. <i>Environmental Science and Pollution Research</i> , 2019, 26, 29012-29019.	5.3	28
17	Chemiluminescent flow-injection analysis of nitrates in water using on-line ultraviolet photolysis. <i>Analytica Chimica Acta</i> , 2002, 474, 99-105.	5.4	26
18	Continuous chemiluminescence determination of formaldehyde in air based on Trautz-Schorigin reaction. <i>Analytica Chimica Acta</i> , 2006, 562, 236-244.	5.4	25

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19	Inhalation of ZnO Nanoparticles: Splice Junction Expression and Alternative Splicing in Mice. <i>Toxicological Sciences</i> , 2019, 168, 190-200.	3.1	24
20	Gene Expression and Epigenetic Changes in Mice Following Inhalation of Copper(II) Oxide Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 550.	4.1	24
21	Copper Oxide Nanoparticles Stimulate the Immune Response and Decrease Antioxidant Defense in Mice After Six-Week Inhalation. <i>Frontiers in Immunology</i> , 2022, 13, 874253.	4.8	23
22	Mass concentrations and lung cancer risk assessment of PAHs bound to PM1 aerosol in six industrial, urban and rural areas in the Czech Republic, Central Europe. <i>Atmospheric Pollution Research</i> , 2020, 11, 401-408.	3.8	20
23	Estimation of NH <sub>3</sub> emissions from a naturally ventilated livestock farm using local-scale atmospheric dispersion modelling. <i>Biogeosciences</i> , 2009, 6, 2847-2860.	3.3	19
24	Determination of nitrogen dioxide with a chemiluminescent aerosol detector. <i>Analytical Chemistry</i> , 1992, 64, 2187-2191.	6.5	18
25	Effect of complexones and tensides on selectivity of nitrogen dioxide determination in air with a chemiluminescence aerosol detector. <i>Analytica Chimica Acta</i> , 2000, 410, 159-165.	5.4	18
26	Annular diffusion denuder for simultaneous removal of gaseous organic compounds and air oxidants during sampling of carbonaceous aerosols. <i>Analytica Chimica Acta</i> , 2012, 714, 68-75.	5.4	18
27	Application of gallic acid and xanthene dyes for determination of ozone in air with a chemiluminescence aerosol detector. <i>Analytica Chimica Acta</i> , 1998, 374, 297-302.	5.4	17
28	Study of aerosols generated by 213 nm laser ablation of cobalt-cemented hard metals. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1341.	3.0	17
29	Influence of physical properties and chemical composition of sample on formation of aerosol particles generated by nanosecond laser ablation at 213 nm. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 51-60.	2.9	17
30	Influence of boiler output and type on gaseous and particulate emissions from the combustion of coal for residential heating. <i>Chemosphere</i> , 2021, 278, 130402.	8.2	17
31	Seasonal Variability of Mercury Contents in Street Dust in Brno, Czech Republic. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2014, 93, 503-508.	2.7	16
32	Monosaccharide anhydrides, monocarboxylic acids and OC/EC in PM1 aerosols in urban areas in the Czech Republic. <i>Atmospheric Pollution Research</i> , 2015, 6, 917-927.	3.8	14
33	The effects of nano-sized PbO on biomarkers of membrane disruption and DNA damage in a sub-chronic inhalation study on mice. <i>Nanotoxicology</i> , 2020, 14, 214-231.	3.0	14
34	Subchronic continuous inhalation exposure to zinc oxide nanoparticles induces pulmonary cell response in mice. <i>Journal of Trace Elements in Medicine and Biology</i> , 2020, 61, 126511.	3.0	14
35	A portable device for fast analysis of explosives in the environment. <i>Journal of Chromatography A</i> , 2015, 1388, 167-173.	3.7	13
36	Variability in the Clearance of Lead Oxide Nanoparticles Is Associated with Alteration of Specific Membrane Transporters. <i>ACS Nano</i> , 2020, 14, 3096-3120.	14.6	13

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37	Determination of nitrous acid in air using wet effluent diffusion denuder – FIA technique. <i>Talanta</i> , 2008, 77, 635-641.	5.5	12
38	A murine model of the effects of inhaled CuO nanoparticles on cells of innate and adaptive immunity – a kinetic study of a continuous three-month exposure. <i>Nanotoxicology</i> , 2019, 13, 952-963.	3.0	12
39	Generator of Fine Polydisperse Aerosol. <i>Collection of Czechoslovak Chemical Communications</i> , 2004, 69, 1453-1463.	1.0	11
40	Shipboard Measurements of Nitrogen Dioxide, Nitrous Acid, Nitric Acid and Ozone in the Eastern Mediterranean Sea. <i>Water, Air and Soil Pollution</i> , 2008, 8, 117-125.	0.8	11
41	Aerosol sampler for analysis of fine and ultrafine aerosols. <i>Analytica Chimica Acta</i> , 2018, 1020, 123-133.	5.4	11
42	Six-week inhalation of CdO nanoparticles in mice: The effects on immune response, oxidative stress, antioxidative defense, fibrotic response, and bones. <i>Food and Chemical Toxicology</i> , 2020, 136, 110954.	3.6	11
43	Determination of dicarboxylic acids in atmospheric aerosols using continuous aerosol sampler with on-line connected ion chromatography system. <i>Atmospheric Environment</i> , 2020, 222, 117178.	4.1	11
44	Nonparametric algorithm for identification of outliers in environmental data. <i>Journal of Chemometrics</i> , 2018, 32, e2997.	1.3	10
45	Characterization and Source Identification of Elements and Water-Soluble Ions in Submicrometre Aerosols in Brno and Álapanice (Czech Republic). <i>Atmosphere</i> , 2020, 11, 688.	2.3	10
46	Photo-induced flow-injection determination of nitrate in water. <i>International Journal of Environmental Analytical Chemistry</i> , 2014, 94, 1038-1049.	3.3	9
47	Organic Solvents with Wet Effluent Diffusion Denuder for Preconcentration of 1,4-Dichlorobenzene from Air. <i>Analytical Chemistry</i> , 1995, 67, 2763-2766.	6.5	8
48	A Clearance Period after Soluble Lead Nanoparticle Inhalation Did Not Ameliorate the Negative Effects on Target Tissues Due to Decreased Immune Response. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8738.	4.1	8
49	Aerosol Counterflow Two-Jets Unit for Continuous Measurement of the Soluble Fraction of Atmospheric Aerosols. <i>Analytical Chemistry</i> , 2005, 77, 5534-5541.	6.5	7
50	Dynamics of Atmospheric Aerosol Number Size Distributions in the Eastern Mediterranean During the “SUB-AERO” Project. <i>Water, Air, and Soil Pollution</i> , 2011, 214, 133-146.	2.4	7
51	Antimicrobial properties and chemical composition of liquid and gaseous phases of essential oils. <i>Chemical Papers</i> , 2015, 69, .	2.2	7
52	Detection and identification of engineered nanoparticles in exhaled breath condensate, blood serum, and urine of occupationally exposed subjects. <i>Monatshefte für Chemie</i> , 2019, 150, 511-523.	1.8	6
53	Tungsten carbide precursors as an example for influence of a binder on the particle formation in the nanosecond laser ablation of powdered materials. <i>Talanta</i> , 2010, 80, 1862-1867.	5.5	5
54	Analysis of water-soluble fraction of metals in atmospheric aerosols using aerosol counterflow two-jets unit and chemiluminescent detection. <i>International Journal of Environmental Analytical Chemistry</i> , 2012, 92, 432-449.	3.3	5

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55	VUV photoionization aerosol mass spectrometric study on the iodine oxide particles formed from O <sub>3</sub> -initiated photooxidation of diiodomethane (CH <sub>2</sub> I <sub>2</sub> ). RSC Advances, 2017, 7, 56779-56787.	3.6	5
56	Wet effluent diffusion denuder: The tool for determination of monoterpenes in forest. Talanta, 2016, 153, 260-267.	5.5	4
57	Determination of short-term changes in levoglucosan and dehydroabietic acid in aerosols with Condensation Growth Unit " Aerosol Counterflow Two-Jets Unit " LC-MS. Chemosphere, 2018, 210, 279-286.	8.2	4
58	Six-week inhalation of lead oxide nanoparticles in mice affects antioxidant defense, immune response, kidneys, intestine and bones. Environmental Science: Nano, 2022, 9, 751-766.	4.3	4
59	Nontuberculous Mycobacteria Prevalence in Aerosol and Spiders' Webs in Karst Caves: Low Risk for Speleotherapy. Microorganisms, 2021, 9, 2573.	3.6	4
60	A continuous-flow instrument for the determination of linear polyacrylamide stability. Electrophoresis, 2004, 25, 2139-2143.	2.4	3
61	Simultaneous Determination of Gaseous Ammonia and Particulate Ammonium in Ambient Air Using a Cylindrical Wet Effluent Diffusion Denuder and a Continuous Aerosol Sampler. Analytical Chemistry, 2020, 92, 15827-15836.	6.5	3
62	Application of wet effluent diffusion denuder for measurement of uptake coefficient of gaseous pollutants. Talanta, 2011, 84, 519-523.	5.5	1
63	Statistical analysis of chemical composition of PM1 aerosols. , 2013, , .		0
64	Detection of peroxyacetyl nitrate in air using chemiluminescence aerosol detector. Chemical Papers, 2014, 68, .	2.2	0
65	Optimisation of preconcentration for determination of dicarboxylic acids using ion chromatography. International Journal of Environmental Analytical Chemistry, 0, , 1-12.	3.3	0