

Jan Hovorka

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,147
citations

430874

18
h-index

377865

34
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45
all docs

45
docs citations

45
times ranked

1744
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of Lead in Eight Central European Peat Bogs Determined from Isotope Ratios, Strengths, and Operation Times of Regional Pollution Sources. <i>Environmental Science & Technology</i> , 2003, 37, 437-445.	10.0	159
2	Chemical and phase composition of particles produced by laser ablation of silicate glass and zirconium implications for elemental fractionation during ICP-MS analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 402-409.	3.0	124
3	Oxygenated and Nitrated Polycyclic Aromatic Hydrocarbons in Ambient Air Levels, Phase Partitioning, Mass Size Distributions, and Inhalation Bioaccessibility. <i>Environmental Science & Technology</i> , 2020, 54, 2615-2625.	10.0	69
4	Elemental and organic carbon in atmospheric aerosols at downtown and suburban sites in Prague. <i>Atmospheric Research</i> , 2008, 90, 287-302.	4.1	66
5	Transfer of ferricenium cation across water/organic solvent interfaces. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1987, 216, 303-308.	0.1	65
6	A new methodology to assess the performance and uncertainty of source apportionment models II: The results of two European intercomparison exercises. <i>Atmospheric Environment</i> , 2015, 123, 240-250.	4.1	63
7	Source apportionment of size resolved particulate matter at a European air pollution hot spot. <i>Science of the Total Environment</i> , 2015, 502, 172-183.	8.0	53
8	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
9	Association of size-resolved number concentrations of particulate matter with cardiovascular and respiratory hospital admissions and mortality in Prague, Czech Republic. <i>Inhalation Toxicology</i> , 2010, 22, 21-28.	1.6	44
10	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
11	Chemical vapor generation of silver for atomic absorption spectrometry with the multiatomizer: Radiotracer efficiency study and characterization of silver species. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 1240-1247.	2.9	34
12	Source Apportionment of Winter Submicron Prague Aerosols from Combined Particle Number Size Distribution and Gaseous Composition Data. <i>Aerosol and Air Quality Research</i> , 2009, 9, 209-236.	2.1	34
13	Wood combustion, a dominant source of winter aerosol in residential district in proximity to a large automobile factory in Central Europe. <i>Atmospheric Environment</i> , 2015, 113, 98-107.	4.1	33
14	Integration of air pollution data collected by mobile measurement to derive a preliminary spatiotemporal air pollution profile from two neighboring German-Czech border villages. <i>Science of the Total Environment</i> , 2020, 722, 137632.	8.0	27
15	Day-to-day variability of toxic events induced by organic compounds bound to size segregated atmospheric aerosol. <i>Environmental Pollution</i> , 2015, 202, 135-145.	7.5	25
16	Elemental composition and source identification of very fine aerosol particles in a European air pollution hot-spot. <i>Atmospheric Pollution Research</i> , 2016, 7, 671-679.	3.8	25
17	Source Impact Determination using Airborne and Ground Measurements of Industrial Plumes. <i>Environmental Science & Technology</i> , 2016, 50, 9881-9888.	10.0	22
18	Electron transfer between ferrocene and hexacyanoferrate(III) across the water/1,2-dichloroethane interface. <i>Collection of Czechoslovak Chemical Communications</i> , 1988, 53, 903-911.	1.0	18

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19	Field tests using radioactive matter. Radiation Protection Dosimetry, 2010, 139, 519-531.	0.8	18
20	Ultrafine particles are not major carriers of carcinogenic PAHs and their genotoxicity in size-segregated aerosols. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2013, 754, 1-6.	1.7	18
21	Particulate matter source apportionment in a village situated in industrial region of Central Europe. Journal of the Air and Waste Management Association, 2013, 63, 1412-1421.	1.9	17
22	An acellular assay to assess the genotoxicity of complex mixtures of organic pollutants bound on size segregated aerosol. Part I: DNA adducts. Toxicology Letters, 2010, 198, 304-311.	0.8	15
23	An acellular assay to assess the genotoxicity of complex mixtures of organic pollutants bound on size segregated aerosol. Part II: Oxidative damage to DNA. Toxicology Letters, 2010, 198, 312-316.	0.8	15
24	Chemical Characterization of PM1-2.5 and its Associations with PM1, PM2.5-10 and Meteorology in Urban and Suburban Environments. Aerosol and Air Quality Research, 2018, 18, 1684-1697.	2.1	14
25	Nitrated monoaromatic hydrocarbons (nitrophenols, nitrocatechols, nitrosalicylic acids) in ambient air: levels, mass size distributions and inhalation bioaccessibility. Environmental Science and Pollution Research, 2021, 28, 59131-59140.	5.3	13
26	New particle formation and condensational growth in a large indoor space. Atmospheric Environment, 2011, 45, 2736-2749.	4.1	10
27	Size-segregated urban aerosol characterization by electron microscopy and dynamic light scattering and influence of sample preparation. Atmospheric Environment, 2018, 178, 181-190.	4.1	10
28	Effect of Indoor and Outdoor Sources on Particulate Matter Concentration in a Naturally Ventilated Flat (URBAN-AEROSOL Project - Prague). Indoor and Built Environment, 2005, 14, 307-312.	2.8	9
29	The Association between Intermodal (PM1-2.5) and PM1, PM2.5, Coarse Fraction and Meteorological Parameters in Various Environments in Central Europe. Aerosol and Air Quality Research, 2017, 17, 1234-1243.	2.1	9
30	Transfer of trisbipyridine transition metal complexes across the water-dichloroethane interface. Collection of Czechoslovak Chemical Communications, 1987, 52, 838-847.	1.0	7
31	Determination of As, Cd, and Pb in epicuticular waxes of pine and spruce needles by ETAAS. Fresenius' Journal of Analytical Chemistry, 1997, 358, 635-640.	1.5	7
32	Long-Term Changes in the Bioaccumulation of As, Cd, Pb, and Hg in Macroinvertebrates from the Elbe River (Czech Republic). Water, Air, and Soil Pollution, 2012, 223, 3511-3526.	2.4	6
33	Impact of Mining Activities on the Air Quality in The Village Nearby a Coal Strip Mine. IOP Conference Series: Earth and Environmental Science, 2016, 44, 032021.	0.3	6
34	Tracing Outdoor/Indoor Penetration of PM2.5, PM1.0 by 210Po/210Pb. Indoor and Built Environment, 2005, 14, 249-253.	2.8	5
35	Field tests using radioactive matter 2. Radiation Protection Dosimetry, 2013, 154, 207-216.	0.8	5
36	Spatial-temporal variability of aerosol sources based on chemical composition and particle number size distributions in an urban settlement influenced by metallurgical industry. Environmental Science and Pollution Research, 2020, 27, 38631-38643.	5.3	4

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37	Aerosol Distribution in The Planetary Boundary Layer Aloft a Residential Area. IOP Conference Series: Earth and Environmental Science, 2016, 44, 052017.	0.3	3
38	New comprehensive approach for airborne asbestos characterisation and monitoring. Environmental Science and Pollution Research, 2018, 25, 30488-30496.	5.3	3
39	Temperature and Relative Humidity Vertical Profiles within Planetary Boundary Layer in Winter Urban Airshed. IOP Conference Series: Earth and Environmental Science, 2017, 95, 052003.	0.3	2
40	The mystery "Well" A natural cloud chamber?. Journal of Aerosol Science, 2015, 81, 70-74.	3.8	1
41	Pollen Characterization in Size Segregated Atmospheric Aerosol. IOP Conference Series: Earth and Environmental Science, 2017, 95, 062001.	0.3	1
42	Rebuttal to "Unfilterable 'geoaerosols', their use in the search for thermal, mineral and mineralized waters, and their possible influence on the origin of certain types of mineral waters" by B. Krcmar and T. Vylita, published in Environmental Geology 40(6):678-682. Environmental Geology, 2002, 41, 984-985.	1.2	0
43	²¹⁰ Po/ ²¹⁰ Pb in Outdoor-Indoor PM-2.5, and PM-1.0 in Prague, Wintertime 2003. ACS Symposium Series, 2005, , 300-307.	0.5	0
44	Characterization of dust samples from a coal strip mine using a resuspension chamber. European Journal of Environmental Sciences, 2017, 7, 14-26.	0.2	0