

# Petr S Fedotov

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

750  
citations

471371

17  
h-index

526166

27  
g-index

177  
all docs

177  
docs citations

177  
times ranked

603  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fractionation and characterization of nano- and microparticles in liquid media. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 1787-1804.	1.9	81
2	Nanoparticles of volcanic ash as a carrier for toxic elements on the global scale. <i>Chemosphere</i> , 2018, 200, 16-22.	4.2	65
3	Extraction and Fractionation Methods for Exposure Assessment of Trace Metals, Metalloids, and Hazardous Organic Compounds in Terrestrial Environments. <i>Critical Reviews in Environmental Science and Technology</i> , 2012, 42, 1117-1171.	6.6	64
4	A contribution of nanoscale particles of road-deposited sediments to the pollution of urban runoff by heavy metals. <i>Chemosphere</i> , 2018, 210, 65-75.	4.2	56
5	Characterization of size, morphology and elemental composition of nano-, submicron, and micron particles of street dust separated using field-flow fractionation in a rotating coiled column. <i>Talanta</i> , 2014, 130, 1-7.	2.9	51
6	Global occurrence, chemical properties, and ecological impacts of e-wastes (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2020, 92, 1733-1767.	0.9	42
7	A hyphenated flow-through analytical system for the study of the mobility and fractionation of trace and major elements in environmental solid samples. <i>Analyst</i> , 2006, 131, 509.	1.7	37
8	Dynamic studies on the mobility of trace elements in soil and sediment samples influenced by dumping of residues of the flood in the Mulde River region in 2002. <i>Chemosphere</i> , 2005, 61, 107-115.	4.2	33
9	Terminology of separation methods (IUPAC Recommendations 2017). <i>Pure and Applied Chemistry</i> , 2018, 90, 181-231.	0.9	32
10	Field-flow fractionation of nano- and microparticles in rotating coiled columns. <i>Journal of Chromatography A</i> , 2015, 1381, 202-209.	1.8	24
11	Studies on trace and major elements association in soils using continuous-flow leaching in rotating coiled columns. <i>Geoderma</i> , 2007, 142, 58-68.	2.3	23
12	Separation and characterization of environmental nano- and submicron particles. <i>Reviews in Analytical Chemistry</i> , 2016, 35, 185-199.	1.5	23
13	Dynamic fractionation of trace metals in soil and sediment samples using rotating coiled column extraction and sequential injection microcolumn extraction: A comparative study. <i>Talanta</i> , 2009, 79, 1081-1088.	2.9	21
14	UNTRADITIONAL APPLICATIONS OF COUNTERCURRENT CHROMATOGRAPHY. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2002, 25, 2065-2078.	0.5	20
15	Dynamic extraction in rotating coiled columns, a new approach to direct recovery of polycyclic aromatic hydrocarbons from soils. <i>Journal of Chromatography A</i> , 2004, 1023, 305-309.	1.8	18
16	Metal-organic complexes as a major sink for rare earth elements in soils. <i>Environmental Chemistry</i> , 2019, 16, 323.	0.7	18
17	Continuous-flow leaching in a rotating coiled column for studies on the mobility of toxic elements in dust samples collected near a metallurgic plant. <i>Chemosphere</i> , 2016, 146, 371-378.	4.2	17
18	Assessment of elemental composition and properties of copper smelter-affected dust and its nano- and micron size fractions. <i>Environmental Science and Pollution Research</i> , 2016, 23, 23781-23790.	2.7	15

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19	Possibility of Field-Flow Fractionation of Macromolecules and Particles in a Rotating Coiled Tube.. Analytical Sciences, 2000, 16, 535-536.	0.8	14
20	Continuous-flow fractionation of selenium in contaminated sediment and soil samples using rotating coiled column and microcolumn extraction. Talanta, 2012, 88, 369-374.	2.9	14
21	Separation of nanoparticles from polydisperse environmental samples: comparative study of filtration, sedimentation, and coiled tube field-flow fractionation. Analytical and Bioanalytical Chemistry, 2019, 411, 8011-8021.	1.9	12
22	Nanospeciation of metals and metalloids in volcanic ash using single particle inductively coupled plasma mass spectrometry. Chemosphere, 2021, 281, 130950.	4.2	10
23	Estimating the bioavailability of trace metals/metalloids and persistent organic substances in terrestrial environments: challenges and need for multidisciplinary approaches. Pure and Applied Chemistry, 2014, 86, 1085-1095.	0.9	9
24	Fractionation and fixation of rare earth elements in soils: Effect of spiking with lanthanum, cerium, and neodymium chlorides. Journal of Rare Earths, 2022, 40, 143-152.	2.5	9
25	Unexpected behavior of Zn, Cd, Cu, and Pb in soils contaminated by ore processing after 70 years of burial. Environmental Chemistry Letters, 2018, 16, 637-645.	8.3	7
26	A novel combined countercurrent chromatography – inductively coupled plasma mass spectrometry method for the determination of ultra trace uranium and thorium in Roman lead. Talanta, 2019, 192, 395-399.	2.9	6
27	Induced Phytoextraction of Mercury. Separation and Purification Reviews, 2022, 51, 174-194.	2.8	6
28	Sedimentation Field-flow Fractionation in Thin Channels and Rotating Coiled Columns: From Analytical to Preparative Scale Separations. Separation and Purification Reviews, 2021, 50, 363-379.	2.8	5
29	Characterization of volcanic ash nanoparticles and study of their fate in aqueous medium by asymmetric flow field-flow fractionation – multi-detection. Environmental Science and Pollution Research, 2021, 28, 31850-31860.	2.7	4
30	Characterization of a hydroxyapatite suspension by capillary zone electrophoresis after fractionation in a rotating coiled column. Mendeleev Communications, 2011, 21, 212-214.	0.6	3
31	Field-flow fractionation of metallic microparticles in a rotating coiled column. Mendeleev Communications, 2016, 26, 358-359.	0.6	3
32	Reliability of the direct ICP-MS analysis of volcanic ash nanoparticles. International Journal of Environmental Analytical Chemistry, 2019, 99, 369-379.	1.8	3
33	Natural silicate nanoparticles: separation, characterization, and assessment of stability and perspectives of their use as reference nanomaterials. Analytical and Bioanalytical Chemistry, 2021, 413, 3999-4012.	1.9	3
34	Study on the Elemental Composition of Environmental Nanoparticles Separated in a Rotating Coiled Column: How Hazardous May Be Urban Dust and Volcanic Ash. Nano Hybrids and Composites, 2017, 13, 288-293.	0.8	1