

Petr S Fedotov

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34
papers

556
citations

15
h-index

23
g-index

177
ext. papers

643
ext. citations

5.1
avg, IF

3.95
L-index

#	Paper	IF	Citations
34	Fractionation and characterization of nano- and microparticles in liquid media. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 1787-804	4.4	71
33	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	11.1	57
32	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	6.2	45
31	Nanoparticles of volcanic ash as a carrier for toxic elements on the global scale. <i>Chemosphere</i> , 2018 , 200, 16-22	8.4	43
30	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	8.4	36
29	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, The</i> , 2006 , 131, 509-15	5	34
28	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, 107-15	8.4	31
27	Separation and characterization of environmental nano- and submicron particles. <i>Reviews in Analytical Chemistry</i> , 2016 , 35, 185-199	2.3	20
26	Field-flow fractionation of nano- and microparticles in rotating coiled columns. <i>Journal of Chromatography A</i> , 2015 , 1381, 202-9	4.5	19
25	UNTRADITIONAL APPLICATIONS OF COUNTERCURRENT CHROMATOGRAPHY. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2002 , 25, 2065-2078	1.3	19
24	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, 1081-8	6.2	18
23	Studies on trace and major elements association in soils using continuous-flow leaching in rotating coiled columns. <i>Geoderma</i> , 2007 , 142, 58-68	6.7	17
22	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, 305-9	4.5	16
21	Terminology of separation methods (IUPAC Recommendations 2017). <i>Pure and Applied Chemistry</i> , 2018 , 90, 181-231	2.1	15
20	Global occurrence, chemical properties, and ecological impacts of e-wastes (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2020 , 92, 1733-1767	2.1	15
19	Metal-organic complexes as a major sink for rare earth elements in soils. <i>Environmental Chemistry</i> , 2019 , 16, 323	3.2	13
18	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, 371-8	8.4	12

17	Continuous-flow fractionation of selenium in contaminated sediment and soil samples using rotating coiled column and microcolumn extraction. <i>Talanta</i> , 2012 , 88, 369-74	6.2	12
16	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	5.1	11
15	Possibility of Field-Flow Fractionation of Macromolecules and Particles in a Rotating Coiled Tube.. <i>Analytical Sciences</i> , 2000 , 16, 535-536	1.7	11
14	Separation of nanoparticles from polydisperse environmental samples: comparative study of filtration, sedimentation, and coiled tube field-flow fractionation. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 8011-8021	4.4	8
13	Estimating the bioavailability of trace metals/metalloids and persistent organic substances in terrestrial environments: challenges and need for multidisciplinary approaches. <i>Pure and Applied Chemistry</i> , 2014 , 86, 1085-1095	2.1	7
12	Unexpected behavior of Zn, Cd, Cu, and Pb in soils contaminated by ore processing after 70 years of burial. <i>Environmental Chemistry Letters</i> , 2018 , 16, 637-645	13.3	6
11	Fractionation and fixation of rare earth elements in soils: Effect of spiking with lanthanum, cerium, and neodymium chlorides. <i>Journal of Rare Earths</i> , 2020 , 40, 143-143	3.7	5
10	Reliability of the direct ICP-MS analysis of volcanic ash nanoparticles. <i>International Journal of Environmental Analytical Chemistry</i> , 2019 , 99, 369-379	1.8	3
9	Characterization of a hydroxyapatite suspension by capillary zone electrophoresis after fractionation in a rotating coiled column. <i>Mendeleev Communications</i> , 2011 , 21, 212-214	1.9	3
8	Field-flow fractionation of metallic microparticles in a rotating coiled column. <i>Mendeleev Communications</i> , 2016 , 26, 358-359	1.9	2
7	Sedimentation Field-flow Fractionation in Thin Channels and Rotating Coiled Columns: From Analytical to Preparative Scale Separations. <i>Separation and Purification Reviews</i> , 2021 , 50, 363-379	7.3	2
6	Study on the Elemental Composition of Environmental Nanoparticles Separated in a Rotating Coiled Column: How Hazardous May Be Urban Dust and Volcanic Ash. <i>Nano Hybrids and Composites</i> , 2017 , 13, 288-293	0.7	1
5	Natural silicate nanoparticles: separation, characterization, and assessment of stability and perspectives of their use as reference nanomaterials. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 3999-4012	4.4	1
4	Characterization of volcanic ash nanoparticles and study of their fate in aqueous medium by asymmetric flow field-flow fractionation-multi-detection. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 31850-31860	5.1	1
3	Nanospeciation of metals and metalloids in volcanic ash using single particle inductively coupled plasma mass spectrometry. <i>Chemosphere</i> , 2021 , 281, 130950	8.4	1
2	A novel combined countercurrent chromatography - inductively coupled plasma mass spectrometry method for the determination of ultra trace uranium and thorium in Roman lead. <i>Talanta</i> , 2019 , 192, 395-399	6.2	0
1	Induced Phytoextraction of Mercury. <i>Separation and Purification Reviews</i> , 1-21	7.3	0