

# Petr S Fedotov

## List of Publications by Year in Descending Order

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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 | Natural silicate nanoparticles: separation, characterization, and assessment of stability and perspectives of their use as reference nanomaterials. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 413, 3999-4012            | 4.4  | 1         |
| 33 | Sedimentation Field-flow Fractionation in Thin Channels and Rotating Coiled Columns: From Analytical to Preparative Scale Separations. <i>Separation and Purification Reviews</i> , <b>2021</b> , 50, 363-379                               | 7.3  | 2         |
| 32 | 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> , <b>2021</b> , 28, 31850-31860   | 5.1  | 1         |
| 31 | Nanospeciation of metals and metalloids in volcanic ash using single particle inductively coupled plasma mass spectrometry. <i>Chemosphere</i> , <b>2021</b> , 281, 130950  | 8.4  | 1         |
| 30 | Fractionation and fixation of rare earth elements in soils: Effect of spiking with lanthanum, cerium, and neodymium chlorides. <i>Journal of Rare Earths</i> , <b>2020</b> , 40, 143-143  | 3.7  | 5         |
| 29 | Global occurrence, chemical properties, and ecological impacts of e-wastes (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2020</b> , 92, 1733-1767  | 2.1  | 15        |
| 28 | Metal-organic complexes as a major sink for rare earth elements in soils. <i>Environmental Chemistry</i> , <b>2019</b> , 16, 323  | 3.2  | 13        |
| 27 | Reliability of the direct ICP-MS analysis of volcanic ash nanoparticles. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2019</b> , 99, 369-379   | 1.8  | 3         |
| 26 | Separation of nanoparticles from polydisperse environmental samples: comparative study of filtration, sedimentation, and coiled tube field-flow fractionation. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 8011-8021 | 4.4  | 8         |
| 25 | 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> , <b>2019</b> , 192, 395-399                    | 6.2  | 0         |
| 24 | Nanoparticles of volcanic ash as a carrier for toxic elements on the global scale. <i>Chemosphere</i> , <b>2018</b> , 200, 16-22  | 8.4  | 43        |
| 23 | Unexpected behavior of Zn, Cd, Cu, and Pb in soils contaminated by ore processing after 70 years of burial. <i>Environmental Chemistry Letters</i> , <b>2018</b> , 16, 637-645  | 13.3 | 6         |
| 22 | Terminology of separation methods (IUPAC Recommendations 2017). <i>Pure and Applied Chemistry</i> , <b>2018</b> , 90, 181-231   | 2.1  | 15        |
| 21 | A contribution of nanoscale particles of road-deposited sediments to the pollution of urban runoff by heavy metals. <i>Chemosphere</i> , <b>2018</b> , 210, 65-75   | 8.4  | 36        |
| 20 | 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> , <b>2017</b> , 13, 288-293                   | 0.7  | 1         |
| 19 | 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> , <b>2016</b> , 23, 23781-23790                             | 5.1  | 11        |
| 18 | Separation and characterization of environmental nano- and submicron particles. <i>Reviews in Analytical Chemistry</i> , <b>2016</b> , 35, 185-199  | 2.3  | 20        |

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|----|--|------|----|
| 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> , <b>2016</b> , 146, 371-8   | 8.4  | 12 |
| 16 | Field-flow fractionation of metallic microparticles in a rotating coiled column. <i>Mendeleev Communications</i> , <b>2016</b> , 26, 358-359   | 1.9  | 2  |
| 15 | Field-flow fractionation of nano- and microparticles in rotating coiled columns. <i>Journal of Chromatography A</i> , <b>2015</b> , 1381, 202-9  | 4.5  | 19 |
| 14 | 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> , <b>2014</b> , 130, 1-7                | 6.2  | 45 |
| 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> , <b>2014</b> , 86, 1085-1095       | 2.1  | 7  |
| 12 | Continuous-flow fractionation of selenium in contaminated sediment and soil samples using rotating coiled column and microcolumn extraction. <i>Talanta</i> , <b>2012</b> , 88, 369-74   | 6.2  | 12 |
| 11 | 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> , <b>2012</b> , 42, 1117-1171 | 11.1 | 57 |
| 10 | Characterization of a hydroxyapatite suspension by capillary zone electrophoresis after fractionation in a rotating coiled column. <i>Mendeleev Communications</i> , <b>2011</b> , 21, 212-214   | 1.9  | 3  |
| 9  | Fractionation and characterization of nano- and microparticles in liquid media. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 400, 1787-804  | 4.4  | 71 |
| 8  | 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> , <b>2009</b> , 79, 1081-8                           | 6.2  | 18 |
| 7  | Studies on trace and major elements association in soils using continuous-flow leaching in rotating coiled columns. <i>Geoderma</i> , <b>2007</b> , 142, 58-68   | 6.7  | 17 |
| 6  | 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> , <b>2006</b> , 131, 509-15  | 5    | 34 |
| 5  | 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> , <b>2005</b> , 61, 107-15                                       | 8.4  | 31 |
| 4  | Dynamic extraction in rotating coiled columns, a new approach to direct recovery of polycyclic aromatic hydrocarbons from soils. <i>Journal of Chromatography A</i> , <b>2004</b> , 1023, 305-9  | 4.5  | 16 |
| 3  | UNTRADITIONAL APPLICATIONS OF COUNTERCURRENT CHROMATOGRAPHY. <i>Journal of Liquid Chromatography and Related Technologies</i> , <b>2002</b> , 25, 2065-2078  | 1.3  | 19 |
| 2  | Possibility of Field-Flow Fractionation of Macromolecules and Particles in a Rotating Coiled Tube.. <i>Analytical Sciences</i> , <b>2000</b> , 16, 535-536   | 1.7  | 11 |
| 1  | Induced Phytoextraction of Mercury. <i>Separation and Purification Reviews</i> , 1-21  | 7.3  | 0  |