

# Jussi V K Kukkonen

## List of Publications by Citations

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161  
papers

4,975  
citations

40  
h-index

58  
g-index

161  
ext. papers

5,229  
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5.7  
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5.43  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 161 | Biological uptake and depuration of carbon nanotubes by <i>Daphnia magna</i> . <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 2969-75   | 10.3 | 226       |
| 160 | Binding of organic pollutants to humic and fulvic acids: Influence of pH and the structure of humic material. <i>Chemosphere</i> , <b>1997</b> , 34, 1693-1704   | 8.4  | 182       |
| 159 | Bioavailability of organic pollutants in boreal waters with varying levels of dissolved organic material. <i>Water Research</i> , <b>1991</b> , 25, 455-463  | 12.5 | 118       |
| 158 | Toxicokinetics and toxicity of sediment-associated pyrene to <i>lumbriculus variegatus</i> (oligochaeta). <i>Environmental Toxicology and Chemistry</i> , <b>1994</b> , 13, 1457-1468  | 3.8  | 112       |
| 157 | Relative Importance of Ingested Sediment and Pore Water as Bioaccumulation Routes for Pyrene to Oligochaete ( <i>Lumbriculus variegatus</i> , Mller). <i>Environmental Science &amp; Technology</i> , <b>1998</b> , 32, 1503-1508  | 10.3 | 111       |
| 156 | Effects of XAD-8 fractions of dissolved organic carbon on the sorption and bioavailability of organic micropollutants. <i>Archives of Environmental Contamination and Toxicology</i> , <b>1990</b> , 19, 551-557   | 3.2  | 93        |
| 155 | Measuring the bioavailability of two hydrophobic organic compounds in the presence of dissolved organic matter. <i>Environmental Toxicology and Chemistry</i> , <b>2003</b> , 22, 518-524  | 3.8  | 92        |
| 154 | Analysis of fullerene-C60 and kinetic measurements for its accumulation and depuration in <i>Daphnia magna</i> . <i>Environmental Toxicology and Chemistry</i> , <b>2010</b> , 29, 1072-8  | 3.8  | 91        |
| 153 | The role of desorption for describing the bioavailability of select polycyclic aromatic hydrocarbon and polychlorinated biphenyl congeners for seven laboratory-spiked sediments. <i>Environmental Toxicology and Chemistry</i> , <b>2004</b> , 23, 1842-51                    | 3.8  | 87        |
| 152 | Sediment characteristics affecting desorption kinetics of select PAH and PCB congeners for seven laboratory spiked sediments. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 4656-63  | 10.3 | 75        |
| 151 | Toxicokinetics and toxicity of sediment-associated pyrene and phenanthrene in <i>Diporeia</i> spp.: Examination of equilibrium-partitioning theory and residue-based effects for assessing hazard. <i>Environmental Toxicology and Chemistry</i> , <b>1994</b> , 13, 1769-1780 | 3.8  | 73        |
| 150 | Feeding selectivity and assimilation of PAH and PCB in <i>Diporeia</i> spp.. <i>Environmental Toxicology and Chemistry</i> , <b>1994</b> , 13, 1445-1455   | 3.8  | 72        |
| 149 | Measuring assimilation efficiencies for sediment-bound PAH and PCB congeners by benthic organisms. <i>Aquatic Toxicology</i> , <b>1995</b> , 32, 75-92   | 5.1  | 71        |
| 148 | Toxicity assessment of sediments from three European river basins using a sediment contact test battery. <i>Ecotoxicology and Environmental Safety</i> , <b>2011</b> , 74, 123-31  | 7    | 70        |
| 147 | Toward sustainable environmental quality: Priority research questions for Europe. <i>Environmental Toxicology and Chemistry</i> , <b>2018</b> , 37, 2281-2295  | 3.8  | 68        |
| 146 | Biomarker responses along a pollution gradient: Effects of pulp and paper mill effluents on caged whitefish. <i>Aquatic Toxicology</i> , <b>1995</b> , 31, 329-345   | 5.1  | 61        |
| 145 | Essential characteristics of natural dissolved organic matter affecting the sorption of hydrophobic organic contaminants. <i>Aquatic Sciences</i> , <b>2004</b> , 66, 171-177  | 2.5  | 59        |

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|-----|--|------|----|
| 144 | Effect of sediment type, feeding level, and larval density on growth and development of a midge ( <i>Chironomus riparius</i> ). <i>Environmental Toxicology and Chemistry</i> , <b>1999</b> , 18, 756-764  | 3.8  | 59 |
| 143 | Combined effects of dissolved organic material and water hardness on toxicity of cadmium to <i>Daphnia magna</i> . <i>Environmental Toxicology and Chemistry</i> , <b>1998</b> , 17, 2498-2503   | 3.8  | 58 |
| 142 | Distribution of organic carbon and organic xenobiotics among different particle-size fractions in sediments. <i>Chemosphere</i> , <b>1996</b> , 32, 1063-1076  | 8.4  | 58 |
| 141 | Toxicokinetics of sediment-associated polybrominated diphenylethers (flame retardants) in benthic invertebrates ( <i>Lumbriculus variegatus</i> , <i>Oligochaeta</i> ). <i>Environmental Toxicology and Chemistry</i> , <b>2004</b> , 23, 166-72               | 3.8  | 56 |
| 140 | Effects of humus concentrations on benzo[a]pyrene accumulation from water to <i>Daphnia magna</i> : comparison of natural waters and standard preparations. <i>Science of the Total Environment</i> , <b>1989</b> , 79, 197-207                                | 10.2 | 56 |
| 139 | Fate of sediment-associated pyrene and benzo. <i>Aquatic Toxicology</i> , <b>2000</b> , 49, 199-212  | 5.1  | 54 |
| 138 | Removal of resin acids and sterols from pulp mill effluents by activated sludge treatment. <i>Water Research</i> , <b>2003</b> , 37, 2813-20   | 12.5 | 52 |
| 137 | Bioavailability of sediment-associated PCDD/Fs and PCDEs: relative importance of contaminant and sediment characteristics and biological factors. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 3926-34                                    | 10.3 | 51 |
| 136 | Effect of sediment-chemical contact time on availability of sediment-associated pyrene and benzo. <i>Aquatic Toxicology</i> , <b>2000</b> , 49, 227-241  | 5.1  | 51 |
| 135 | Fate of wood extractives in wastewater treatment plants at kraft pulp mills and mechanical pulp mills. <i>Water Research</i> , <b>2004</b> , 38, 972-82  | 12.5 | 49 |
| 134 | Evaluating the role of desorption in bioavailability of sediment-associated contaminants using oligochaetes, semipermeable membrane devices and Tenax extraction. <i>Environmental Pollution</i> , <b>2006</b> , 140, 150-63                                   | 9.3  | 48 |
| 133 | Biotransformation and bioconcentration of pyrene in <i>Daphnia magna</i> . <i>Aquatic Toxicology</i> , <b>2003</b> , 64, 53-63   | 5.1  | 48 |
| 132 | Acute toxicity of chemicals to <i>Daphnia magna</i> in humic waters. <i>Science of the Total Environment</i> , <b>1992</b> , 117-118, 367-377  | 10.2 | 48 |
| 131 | Factors affecting feeding rate, reproduction and growth of an oligochaete <i>Lumbriculus variegatus</i> (Müller). <i>Hydrobiologia</i> , <b>1998</b> , 377, 183-194  | 2.4  | 47 |
| 130 | A screening study on the fate of fullerenes (nC60) and their toxic implications in natural freshwaters. <i>Environmental Toxicology and Chemistry</i> , <b>2013</b> , 32, 1224-32  | 3.8  | 45 |
| 129 | Key site variables governing the functional characteristics of Dissolved Natural Organic Matter (DNOM) in Nordic forested catchments. <i>Aquatic Sciences</i> , <b>2004</b> , 66, 195-210  | 2.5  | 45 |
| 128 | Desorption kinetics of fluoranthene and trifluralin from Lake Huron and Lake Erie, USA, sediments. <i>Environmental Toxicology and Chemistry</i> , <b>2005</b> , 24, 31-9  | 3.8  | 45 |
| 127 | Bioaccumulation and toxicity of 4-nonylphenol (4-NP) and 4-(2-dodecyl)-benzene sulfonate (LAS) in <i>Lumbriculus variegatus</i> ( <i>Oligochaeta</i> ) and <i>Chironomus riparius</i> ( <i>Insecta</i> ). <i>Aquatic Toxicology</i> , <b>2006</b> , 77, 329-38 | 5.1  | 43 |

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|-----|---|------|----|
| 126 | Binding of organic xenobiotics to dissolved organic macromolecules: comparison of analytical methods. <i>Science of the Total Environment</i> , <b>1994</b> , 152, 19-29  | 10.2 | 43 |
| 125 | Investigating the role of desorption on the bioavailability of sediment-associated 3,4,3',4'-tetrachlorobiphenyl in benthic invertebrates. <i>Environmental Toxicology and Chemistry</i> , <b>2003</b> , 22, 2861-71  | 3.8  | 42 |
| 124 | Bioaccumulation and toxicity of sediment associated herbicides (ioxynil, pendimethalin, and bentazone) in <i>Lumbriculus variegatus</i> (Oligochaeta) and <i>Chironomus riparius</i> (Insecta). <i>Ecotoxicology and Environmental Safety</i> , <b>2003</b> , 56, 398-410             | 7    | 41 |
| 123 | Toxicity of fullerene (C60) to sediment-dwelling invertebrate <i>Chironomus riparius</i> larvae. <i>Environmental Toxicology and Chemistry</i> , <b>2012</b> , 31, 2108-16  | 3.8  | 40 |
| 122 | Characterizing sediment acid volatile sulfide concentrations in European streams. <i>Environmental Toxicology and Chemistry</i> , <b>2007</b> , 26, 1-12  | 3.8  | 40 |
| 121 | The contrasting roles of sedimentary plant-derived carbon and black carbon on sediment-spiked hydrophobic organic contaminant bioavailability to <i>Diporeia</i> species and <i>Lumbriculus variegatus</i> . <i>Environmental Toxicology and Chemistry</i> , <b>2005</b> , 24, 877-85 | 3.8  | 40 |
| 120 | Effects of aquatic humus on accumulation and acute toxicity of some organic micropollutants. <i>Science of the Total Environment</i> , <b>1987</b> , 62, 399-402  | 10.2 | 40 |
| 119 | Toxic effects of mining effluents on fish gills in a subarctic lake system in NW Russia. <i>Ecotoxicology and Environmental Safety</i> , <b>2004</b> , 57, 278-89   | 7    | 39 |
| 118 | The influence of summer seasonal extremes on dissolved organic carbon export from a boreal peatland catchment: evidence from one dry and one wet growing season. <i>Science of the Total Environment</i> , <b>2009</b> , 407, 1373-82   | 10.2 | 38 |
| 117 | Influence of sediment ingestion and exposure concentration on the bioavailable fraction of sediment-associated tetrachlorobiphenyl in oligochaetes. <i>Environmental Toxicology and Chemistry</i> , <b>2008</b> , 27, 854-63  | 3.8  | 38 |
| 116 | Effects of water hardness and dissolved organic material on bioavailability of selected organic chemicals. <i>Environmental Toxicology and Chemistry</i> , <b>2001</b> , 20, 2303-2308  | 3.8  | 38 |
| 115 | Temperature- and parasite-induced changes in toxicity and lethal body burdens of pentachlorophenol in the freshwater clam <i>Pisidium amnicum</i> . <i>Environmental Toxicology and Chemistry</i> , <b>2001</b> , 20, 2778-2784   | 3.8  | 38 |
| 114 | Assessing the impact of chemical pollution on benthic invertebrates from three different European rivers using a weight-of-evidence approach. <i>Science of the Total Environment</i> , <b>2012</b> , 438, 498-509  | 10.2 | 37 |
| 113 | Bisphenol A accumulation in the freshwater clam <i>Pisidium amnicum</i> at low temperatures. <i>Archives of Environmental Contamination and Toxicology</i> , <b>2002</b> , 43, 50-5   | 3.2  | 37 |
| 112 | Phytosterols act as endocrine and metabolic disruptors in the European polecat ( <i>Mustela putorius</i> ). <i>Toxicology and Applied Pharmacology</i> , <b>2002</b> , 178, 22-8  | 4.6  | 36 |
| 111 | Analysis of pesticides in water and sediment under different storage conditions using gas chromatography. <i>Archives of Environmental Contamination and Toxicology</i> , <b>2003</b> , 44, 437-44  | 3.2  | 36 |
| 110 | Effects of sediment-bound polydimethylsiloxane on the bioavailability and distribution of benzo[a]pyrene in lake sediment to <i>Lumbriculus variegatus</i> . <i>Environmental Toxicology and Chemistry</i> , <b>1995</b> , 14, 523-531  | 3.8  | 36 |
| 109 | Effect of particle-xenobiotic contact time on bioavailability of sediment-associated benzo(a)pyrene to benthic amphipod, <i>Diporeia</i> spp. <i>Aquatic Toxicology</i> , <b>1998</b> , 42, 229-242   | 5.1  | 35 |

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|-----|--|------|----|
| 108 | Impact of sediment manipulation on the bioaccumulation of polycyclic aromatic hydrocarbons from field-contaminated and laboratory-dosed sediments by an oligochaete. <i>Environmental Toxicology and Chemistry</i> , <b>2001</b> , 20, 1752-1761   | 3.8  | 35 |
| 107 | On the borderline of dissolved and particulate organic matter: partitioning and bioavailability of polycyclic aromatic hydrocarbons. <i>Ecotoxicology and Environmental Safety</i> , <b>2012</b> , 78, 91-8  | 7    | 34 |
| 106 | The kinetics of cadmium in <i>Daphnia magna</i> as affected by humic substances and water hardness. <i>Ecotoxicology and Environmental Safety</i> , <b>1995</b> , 30, 72-6   | 7    | 34 |
| 105 | Toxicokinetics of organic contaminants in <i>Hyalella azteca</i> . <i>Archives of Environmental Contamination and Toxicology</i> , <b>2003</b> , 44, 467-75  | 3.2  | 33 |
| 104 | Bisphenol A induces yolk-sac oedema and other adverse effects in landlocked salmon ( <i>Salmo salar</i> m. sebago) yolk-sac fry. <i>Chemosphere</i> , <b>2004</b> , 55, 187-96   | 8.4  | 33 |
| 103 | Preliminary study to compare body residues and sublethal energetic responses in benthic invertebrates exposed to sediment-bound 2,4,5-trichlorophenol. <i>Environmental Toxicology and Chemistry</i> , <b>1996</b> , 15, 160-166                   | 3.8  | 32 |
| 102 | UV-B-Induced acute toxicity of pyrene to the waterflea <i>Daphnia magna</i> in natural freshwaters. <i>Ecotoxicology and Environmental Safety</i> , <b>1999</b> , 44, 271-9  | 7    | 31 |
| 101 | Sex, age, and tissue specific accumulation of eight metals, arsenic, and selenium in the European hedgehog ( <i>Erinaceus europaeus</i> ). <i>Archives of Environmental Contamination and Toxicology</i> , <b>2010</b> , 59, 642-51                | 3.2  | 30 |
| 100 | Bioaccumulation of paraquat by <i>Lumbricus variegatus</i> in the presence of dissolved natural organic matter and impact on energy costs, biotransformation and antioxidative enzymes. <i>Chemosphere</i> , <b>2007</b> , 66, 558-66              | 8.4  | 30 |
| 99  | Responses of <i>Lumbricus variegatus</i> to activated carbon amendments in uncontaminated sediments. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 12895-903   | 10.3 | 29 |
| 98  | Bioaccumulation of atrazine and chlorpyrifos to <i>Lumbricus variegatus</i> from lake sediments. <i>Ecotoxicology and Environmental Safety</i> , <b>2008</b> , 71, 860-8   | 7    | 29 |
| 97  | Bioaccumulation and biotransformation of polycyclic aromatic hydrocarbons during sediment tests with oligochaetes ( <i>Lumbricus variegatus</i> ). <i>Environmental Toxicology and Chemistry</i> , <b>2007</b> , 26, 2660-6                        | 3.8  | 29 |
| 96  | Comparative sorption and desorption of benzo[a]pyrene and 3,4,3',4'-tetrachlorobiphenyl in natural lake water containing dissolved organic matter. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 7529-34                       | 10.3 | 29 |
| 95  | Toxicokinetics of 2,4,5-trichlorophenol and benzo(a)pyrene in the clam <i>Pisidium amnicum</i> : effects of seasonal temperatures and trematode parasites. <i>Archives of Environmental Contamination and Toxicology</i> , <b>2000</b> , 39, 352-9 | 3.2  | 29 |
| 94  | Sublethal toxicity and biotransformation of pyrene in <i>Lumbricus variegatus</i> (Oligochaeta). <i>Science of the Total Environment</i> , <b>2009</b> , 407, 2666-72  | 10.2 | 28 |
| 93  | DOC and N <sub>2</sub> O dynamics in upland and peatland forest soils after clear-cutting and soil preparation. <i>Biogeochemistry</i> , <b>2009</b> , 94, 217-231   | 3.8  | 28 |
| 92  | Bisphenol A affects endocrine physiology and biotransformation enzyme activities of the field vole ( <i>Microtus agrestis</i> ). <i>General and Comparative Endocrinology</i> , <b>2002</b> , 126, 183-9   | 3    | 28 |
| 91  | Chemical stress and metabolic rate in aquatic invertebrates: Threshold, dose-response relationships, and mode of toxic action. <i>Environmental Toxicology and Chemistry</i> , <b>1998</b> , 17, 883-890   | 3.8  | 27 |

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|----|---|------|----|
| 90 | Subchronic metabolic effects and toxicity of a simulated pulp mill effluent on juvenile lake trout, <i>Salmo trutta m. lacustris</i> . <i>Ecotoxicology and Environmental Safety</i> , <b>1988</b> , 16, 202-18   | 7    | 27 |
| 89 | Trophic transfer of polychlorinated biphenyls (PCB) in a boreal lake ecosystem: testing of bioaccumulation models. <i>Science of the Total Environment</i> , <b>2014</b> , 466-467, 690-8   | 10.2 | 26 |
| 88 | Physiological adaptations of the raccoon dog ( <i>Nyctereutes procyonoides</i> ) to seasonal fasting-fat and nitrogen metabolism and influence of continuous melatonin treatment. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , <b>2004</b> , 174, 1-12 | 2.2  | 26 |
| 87 | THE EFFECTS OF PARASITES AND TEMPERATURE ON THE ACCUMULATION OF XENOBIOTICS IN A FRESHWATER CLAM <b>1999</b> , 9, 475-481   |      | 26 |
| 86 | Partitioning of tetra- and pentabromo diphenyl ether and benzo[a]pyrene among water and dissolved and particulate organic carbon along a salinity gradient in coastal waters. <i>Environmental Toxicology and Chemistry</i> , <b>2010</b> , 29, 2443-9  | 3.8  | 24 |
| 85 | Effects of dietary genistein on mouse reproduction, postnatal development and weight-regulation. <i>Animal Reproduction Science</i> , <b>2006</b> , 93, 337-48  | 2.1  | 24 |
| 84 | Effects of pulp mill effluents and restricted diet on growth and physiology of rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Ecotoxicology and Environmental Safety</i> , <b>2001</b> , 49, 144-54   | 7    | 24 |
| 83 | Effects of lignin and chlorolignin in pulp mill effluents on the binding and bioavailability of hydrophobic organic pollutants. <i>Water Research</i> , <b>1992</b> , 26, 1523-1532   | 12.5 | 24 |
| 82 | Effects of activated carbon ageing in three PCB contaminated sediments: Sorption efficiency and secondary effects on <i>Lumbriculus variegatus</i> . <i>Water Research</i> , <b>2015</b> , 85, 413-21   | 12.5 | 23 |
| 81 | Predicting the bioavailability of sediment-associated spiked compounds by using the polyoxymethylene passive sampling and tenax extraction methods in sediments from three river basins in Europe. <i>Archives of Environmental Contamination and Toxicology</i> , <b>2010</b> , 59, 80-90                  | 3.2  | 23 |
| 80 | Influence of black carbon and chemical planarity on bioavailability of sediment-associated contaminants. <i>Environmental Toxicology and Chemistry</i> , <b>2010</b> , 29, 1976-83  | 3.8  | 23 |
| 79 | Dissolved organic matter in pore water of freshwater sediments: effects of separation procedure on quantity, quality and functionality. <i>Chemosphere</i> , <b>2005</b> , 60, 1608-15  | 8.4  | 23 |
| 78 | Effects of bisphenol A and artificial UVB radiation on the early development of <i>Rana temporaria</i> . <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , <b>2002</b> , 65, 947-59  | 3.2  | 23 |
| 77 | Metal concentrations in <i>Hydropsyche pellucidula</i> larvae (Trichoptera, Hydropsychidae) in relation to the anal papillae abnormalities and age of exocuticle. <i>Water Research</i> , <b>1996</b> , 30, 2265-2272   | 12.5 | 23 |
| 76 | Fullerenes(nC60) affect the growth and development of the sediment-dwelling invertebrate <i>Chironomus riparius</i> larvae. <i>Environmental Pollution</i> , <b>2015</b> , 206, 17-23   | 9.3  | 22 |
| 75 | Environmental temperature changes uptake rate and bioconcentration factors of bisphenol a in tadpoles of <i>Rana temporaria</i> . <i>Environmental Toxicology and Chemistry</i> , <b>2006</b> , 25, 2804-8  | 3.8  | 22 |
| 74 | Atrazine uptake, elimination, and bioconcentration by periphyton communities and <i>Daphnia magna</i> : Effects of dissolved organic carbon. <i>Environmental Toxicology and Chemistry</i> , <b>2001</b> , 20, 1003-1014  | 3.8  | 22 |
| 73 | Desorption of sediment-associated polychlorinated dibenzo-p-dioxins, dibenzofurans, diphenyl ethers and hydroxydiphenyl ethers from contaminated sediment. <i>Chemosphere</i> , <b>2008</b> , 72, 1-7   | 8.4  | 21 |

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| 72 | In vivo effects of bisphenol A on the polecat ( <i>Mustela putorius</i> ). <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , <b>2002</b> , 65, 933-45   | 3.2  | 21 |
| 71 | Effect of 3,4,3',4'-tetrachlorobiphenyl on the reworking behavior of <i>Lumbricus variegatus</i> exposed to contaminated sediment. <i>Environmental Toxicology and Chemistry</i> , <b>2004</b> , 23, 178-86  | 3.8  | 20 |
| 70 | Sediment characteristics influencing the bioavailability of nonpolar organic contaminants to <i>Diporeia</i> spp.. <i>Chemical Speciation and Bioavailability</i> , <b>1997</b> , 9, 43-55   |      | 19 |
| 69 | Toxicokinetics, toxicity and lethal body residues of two chlorophenols in the oligochaete worm, <i>Lumbricus variegatus</i> , in different sediments. <i>Chemosphere</i> , <b>2003</b> , 51, 35-46   | 8.4  | 19 |
| 68 | Inhibition of pyrene biotransformation by piperonyl butoxide and identification of two pyrene derivatives in <i>Lumbricus variegatus</i> (Oligochaeta). <i>Environmental Toxicology and Chemistry</i> , <b>2011</b> , 30, 1069-78  | 3.8  | 18 |
| 67 | Phytosterols affect endocrinology and metabolism of the field vole ( <i>Microtus agrestis</i> ). <i>Experimental Biology and Medicine</i> , <b>2003</b> , 228, 188-93  | 3.7  | 18 |
| 66 | Characterization of Lake Ladoga sediments. II. Toxic chemicals. <i>Chemosphere</i> , <b>1996</b> , 32, 1179-1192   | 8.4  | 18 |
| 65 | . <i>Environmental Toxicology and Chemistry</i> , <b>1995</b> , 14, 523  | 3.8  | 18 |
| 64 | Effects of hypoxia on valve-closure time and bioaccumulation of 2,4,5-trichlorophenol by the freshwater clam <i>Sphaerium corneum</i> [L]. <i>Ecotoxicology and Environmental Safety</i> , <b>1997</b> , 36, 49-56   | 7    | 17 |
| 63 | Similarities in bioaccumulation patterns of polychlorinated dibenzo-p-dioxins and furans and polychlorinated diphenyl ethers in laboratory-exposed oligochaetes and semipermeable membrane devices and in field-collected chironomids. <i>Environmental Toxicology and Chemistry</i> , <b>2003</b> , 22, 2405-15 | 3.8  | 17 |
| 62 | Concentration of retene and resin acids in sedimenting particles collected from a bleached kraft mill effluent receiving lake. <i>Water Research</i> , <b>2000</b> , 34, 1604-1610   | 12.5 | 17 |
| 61 | Optimization of photovoltaic solar power plant locations in northern Chile. <i>Environmental Earth Sciences</i> , <b>2017</b> , 76, 1  | 2.9  | 16 |
| 60 | Pentachlorophenol (PCP) bioaccumulation and effect on heat production on salmon eggs at different stages of development. <i>Aquatic Toxicology</i> , <b>2004</b> , 68, 75-85   | 5.1  | 16 |
| 59 | . <i>Environmental Toxicology and Chemistry</i> , <b>1998</b> , 17, 883  | 3.8  | 16 |
| 58 | Multixenobiotic resistance efflux activity in <i>Daphnia magna</i> and <i>Lumbricus variegatus</i> . <i>Chemosphere</i> , <b>2015</b> , 124, 143-9   | 8.4  | 15 |
| 57 | The effect of selenium and organic material in lake sediments on the bioaccumulation of methylmercury by <i>Lumbricus variegatus</i> (oligochaeta). <i>Biogeochemistry</i> , <b>1998</b> , 40, 267-278   | 3.8  | 15 |
| 56 | Comparing behavioral and chronic endpoints to evaluate the response of <i>Lumbricus variegatus</i> to 3,4,3',4'-tetrachlorobiphenyl sediment exposures. <i>Environmental Toxicology and Chemistry</i> , <b>2004</b> , 23, 187-94   | 3.8  | 15 |
| 55 | Life-cycle effects of sediment-associated 2,4,5-trichlorophenol on two groups of the midge <i>Chironomus riparius</i> with different exposure histories. <i>Environmental Toxicology and Chemistry</i> , <b>2001</b> , 20, 1772-1777   | 3.8  | 15 |

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|----|--|------|----|
| 54 | Characterization of Lake Ladoga sediments. I. Toxicity to <i>Chironomus riparius</i> and <i>Daphnia magna</i> . <i>Chemosphere</i> , <b>1996</b> , 32, 1165-78   | 8.4  | 15 |
| 53 | Chlorophenolic and isotopic tracers of pulp mill effluent in sedimenting particles collected from southern lake saimaa, Finland. <i>Science of the Total Environment</i> , <b>1996</b> , 188, 15-27          | 10.2 | 15 |
| 52 | Dissolved organic matter modulating the uptake, biotransformation, and elimination rates of pyrene in <i>Daphnia magna</i> . <i>Environmental Toxicology and Chemistry</i> , <b>2010</b> , 29, 2783-91       | 3.8  | 14 |
| 51 | Effects of temperature and oxygen concentration in sediment toxicity testing. <i>Ecotoxicology and Environmental Safety</i> , <b>2008</b> , 70, 475-82   | 7    | 14 |
| 50 | . <i>Environmental Toxicology and Chemistry</i> , <b>1994</b> , 13, 1445   | 3.8  | 14 |
| 49 | Effects of Activated Carbon on PCB Bioaccumulation and Biological Responses of <i>Chironomus riparius</i> in Full Life Cycle Test. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 5252-60 | 10.3 | 14 |
| 48 | Aqueous uptake and sublethal toxicity of p,p'DDE in non-feeding larval stages of Antarctic krill ( <i>Euphausia superba</i> ). <i>Environmental Pollution</i> , <b>2012</b> , 160, 185-91                    | 9.3  | 13 |
| 47 | Multigenerational exposure to phytosterols in the mouse. <i>Reproductive Toxicology</i> , <b>2005</b> , 19, 535-40   | 3.4  | 13 |
| 46 | Analysis of organochlorine compounds and extractable organic halogen in three subspecies of ringed seal from Northeast Europe. <i>Environmental Toxicology and Chemistry</i> , <b>2000</b> , 19, 848-854     | 3.8  | 13 |
| 45 | Influence of natural aquatic humic substances on the bioavailability of benzo(a)pyrene to Atlantic salmon. <i>Science of the Total Environment</i> , <b>1989</b> , 81-82, 691-702                            | 10.2 | 13 |
| 44 | The Influence of Solar Power Plants on Microclimatic Conditions and the Biotic Community in Chilean Desert Environments. <i>Environmental Management</i> , <b>2017</b> , 60, 630-642                         | 3.1  | 12 |
| 43 | Bleached kraft pulp mill discharged organic matter in recipient lake sediment: Environmental and molecular properties. <i>Environmental Science and Pollution Research</i> , <b>1997</b> , 4, 194-202        | 5.1  | 12 |
| 42 | Continuous melatonin treatment and fasting in the raccoon dog ( <i>Nyctereutes procyonoides</i> )--vernal body weight regulation and reproduction. <i>Zoological Science</i> , <b>2004</b> , 21, 163-72      | 0.8  | 12 |
| 41 | Phytoestrogens alter the reproductive organ development in the mink ( <i>Mustela vison</i> ). <i>Toxicology and Applied Pharmacology</i> , <b>2005</b> , 202, 132-9  | 4.6  | 12 |
| 40 | Sublethal energetic responses by <i>Pisidium amnicum</i> ( <i>Bivalvia</i> ) exposed to pentachlorophenol at two temperatures. <i>Environmental Toxicology and Chemistry</i> , <b>2003</b> , 22, 433-438     | 3.8  | 11 |
| 39 | EOX and organochlorine compounds in fish and ringed seal samples from Lake Ladoga, Russia. <i>Chemosphere</i> , <b>2000</b> , 41, 1733-40  | 8.4  | 10 |
| 38 | Toxicity of biomining effluents to <i>Daphnia magna</i> : Acute toxicity and transcriptomic biomarkers. <i>Chemosphere</i> , <b>2018</b> , 210, 304-311  | 8.4  | 9  |
| 37 | Bioaccumulation, bioavailability and environmental fate of chlorophenol impurities, polychlorinated hydroxydiphenylethers and their methoxy analogues. <i>Chemosphere</i> , <b>2007</b> , 68, 1382-91        | 8.4  | 9  |



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| 36 | Body residues as dose for sublethal responses in alevins of landlocked salmon ( <i>Salmo salar</i> m. sebago): a direct calorimetry study. <i>Environmental Toxicology and Chemistry</i> , <b>2006</b> , 25, 1088-93                  | 3.8  | 9 |
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| 34 | Effects of pH and natural humic substances on the accumulation of organic pollutants in two freshwater invertebrates <b>1991</b> , 413-422  |      | 9 |
| 33 | Toxicity of silver nanoparticles to <i>Lumbriculus variegatus</i> is a function of dissolved silver and promoted by low sediment pH. <i>Environmental Toxicology and Chemistry</i> , <b>2018</b> , 37, 1889-1897                      | 3.8  | 8 |
| 32 | Nitrogen and Carbon Dynamics and the Role of Enchytraeid Worms in Decomposition of L, F and H Layers of Boreal Mor. <i>Water, Air, and Soil Pollution</i> , <b>2012</b> , 223, 3701-3719  | 2.6  | 8 |
| 31 | Altered developmental timing in early life stages of Antarctic krill ( <i>Euphausia superba</i> ) exposed to p,p'DDE. <i>Science of the Total Environment</i> , <b>2011</b> , 409, 5268-76  | 10.2 | 8 |
| 30 | Photostability and toxicity of pentachlorophenol and phenanthrene. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 189, 235-40  | 12.8 | 8 |
| 29 | Bioaccumulation of ivermectin from natural and artificial sediments in the benthic organism <i>Lumbriculus variegatus</i> . <i>Journal of Soils and Sediments</i> , <b>2010</b> , 10, 1611-1622                                       | 3.4  | 8 |
| 28 | Determination of chlorinated phenolics in freshwater sediments. <i>Toxicological and Environmental Chemistry</i> , <b>1997</b> , 63, 199-214  | 1.4  | 8 |
| 27 | Hydropsychid (Trichoptera, Hydropsychidae) gill abnormalities as morphological biomarkers of stream pollution. <i>Freshwater Biology</i> , <b>2002</b> , 47, 1297-1306  | 3.1  | 8 |
| 26 | Postmetamorphic <i>Xenopus laevis</i> shows decreased plasma triiodothyronine concentrations and phosphorylase activity due to subacute phytosterol exposure. <i>Chemosphere</i> , <b>2004</b> , 57, 1683-9                           | 8.4  | 8 |
| 25 | Metabolic response of <i>Lumbriculus variegatus</i> to respiratory uncoupler in cold and anoxic water. <i>Environmental Toxicology and Chemistry</i> , <b>2000</b> , 19, 2073-2075  | 3.8  | 8 |
| 24 | Interacting effects of simulated eutrophication, temperature increase, and microplastic exposure on <i>Daphnia</i> . <i>Environmental Research</i> , <b>2021</b> , 192, 110304  | 7.9  | 8 |
| 23 | Toxicity Testing of Silver Nanoparticles in Artificial and Natural Sediments Using the Benthic Organism <i>Lumbriculus variegatus</i> . <i>Archives of Environmental Contamination and Toxicology</i> , <b>2016</b> , 71, 405-14      | 3.2  | 7 |
| 22 | Desorption and bioavailability of spiked pentabromo diphenyl ether and tetrachlorodibenzo(p)dioxin in contaminated sediments. <i>Archives of Environmental Contamination and Toxicology</i> , <b>2009</b> , 56, 670-9                 | 3.2  | 7 |
| 21 | Effects of phytosterols on the endocrinology and metabolism of the female raccoon dog ( <i>Nyctereutes procyonoides</i> ). <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , <b>2003</b> , 66, 1475-88 | 3.2  | 7 |
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| 19 | Bioavailability of Organic Contaminants in Freshwater Environments. <i>Handbook of Environmental Chemistry</i> , <b>2012</b> , 25-53  | 0.8  | 7 |

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| 18 | Distribution of fullerenes (nC60) between sediment and water in freshwaters. <i>Chemosphere</i> , <b>2014</b> , 108, 320-5   | 8.4 | 6 |
| 17 | Changes in <i>Lumbricus variegatus</i> metabolites under hypoxic exposure to benzo(a)pyrene, chlorpyrifos and pentachlorophenol: consequences on biotransformation. <i>Chemosphere</i> , <b>2013</b> , 93, 302-10  | 8.4 | 6 |
| 16 | Organochlorine concentrations in the saimaa ringed seal ( <i>Phoca hispida saimensis</i> ) from Lake Haukivesi, Finland, 1981 to 2000, and in its diet today. <i>Environmental Toxicology and Chemistry</i> , <b>2002</b> , 21, 1368-1376  | 3.8 | 6 |
| 15 | Hypoxia increases intensity of epidermal papillomatosis in roach <i>Rutilus rutilus</i> . <i>Diseases of Aquatic Organisms</i> , <b>2008</b> , 78, 235-41  | 1.7 | 6 |
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| 13 | The responses of rainbow trout gills to high lithium and potassium concentrations in water. <i>Ecotoxicology and Environmental Safety</i> , <b>2007</b> , 68, 419-25   | 7   | 5 |
| 12 | Partitioning of nanoparticle-originated dissolved silver in natural and artificial sediments. <i>Environmental Toxicology and Chemistry</i> , <b>2017</b> , 36, 2593-2601  | 3.8 | 4 |
| 11 | Bioconcentration of benzo[a]pyrene in <i>Chironomus riparius</i> and <i>Lumbricus variegatus</i> in relation to dissolved organic matter and biotransformation. <i>Aquatic Ecosystem Health and Management</i> , <b>2013</b> , 16, 70-77   | 1.4 | 4 |
| 10 | Detection, analysis and interactions of plasma ghrelin, leptin and growth hormone in the mink ( <i>Mustela vison</i> ). <i>Zoological Science</i> , <b>2003</b> , 20, 1127-32  | 0.8 | 4 |
| 9  | Temperature determines the rate at which retene affects trout embryos, not the concentration that is toxic. <i>Aquatic Toxicology</i> , <b>2020</b> , 222, 105471  | 5.1 | 3 |
| 8  | Response of <i>Lumbricus variegatus</i> transcriptome and metabolites to model chemical contaminants. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , <b>2013</b> , 157, 183-91   | 3.2 | 2 |
| 7  | Impact of sediment manipulation on the bioaccumulation of polycyclic aromatic hydrocarbons from field-contaminated and laboratory-dosed sediments by an oligochaete <b>2001</b> , 20, 1752   |     | 2 |
| 6  | Measuring the bioavailability of two hydrophobic organic compounds in the presence of dissolved organic matter <b>2003</b> , 22, 518   |     | 2 |
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| 4  | Measuring absorption efficiencies: Some additional considerations. <i>Environmental Toxicology and Chemistry</i> , <b>1999</b> , 18, 2403-2404   | 3.8 | 0 |
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