

Sonja Zimmermann

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,119
citations

516710

16
h-index

414414

32
g-index

34
all docs

34
docs citations

34
times ranked

1088
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Trace analysis of platinum in biological samples: a comparison between sector field ICP-MS and adsorptive cathodic stripping voltammetry following different digestion procedures. <i>Analytica Chimica Acta</i> , 2001, 439, 203-209. | 5.4 | 104 |
| 2 | Influence of platinum, palladium and rhodium as compared with cadmium, nickel and chromium on cell viability and oxidative stress in human bronchial epithelial cells. <i>Environment International</i> , 2007, 33, 385-390. | 10.0 | 96 |
| 3 | Significance of platinum group metals emitted from automobile exhaust gas converters for the biosphere. <i>Environmental Science and Pollution Research</i> , 2004, 11, 194-199. | 5.3 | 82 |
| 4 | Uptake and bioaccumulation of platinum group metals (Pd, Pt, Rh) from automobile catalytic converter materials by the zebra mussel (<i>Dreissena polymorpha</i>). <i>Environmental Research</i> , 2005, 98, 203-209. | 7.5 | 82 |
| 5 | Induction of heat shock proteins (hsp70) in the zebra mussel (<i>Dreissena polymorpha</i>) following exposure to platinum group metals (platinum, palladium and rhodium): Comparison with lead and cadmium exposures. <i>Aquatic Toxicology</i> , 2005, 75, 65-75. | 4.0 | 81 |
| 6 | Biological availability of traffic-related platinum group elements (palladium, platinum, and rhodium) and other metals to the zebra mussel (<i>Dreissena polymorpha</i>) in water containing road dust. <i>Environmental Toxicology and Chemistry</i> , 2002, 21, 2713-2718. | 4.3 | 80 |
| 7 | Relevance and analysis of traffic related platinum group metals (Pt, Pd, Rh) in the aquatic biosphere, with emphasis on palladium. <i>Ecotoxicology</i> , 2002, 11, 385-392. | 2.4 | 73 |
| 8 | Determination of Pt, Pd and Rh in biological samples by electrothermal atomic absorption spectrometry as compared with adsorptive cathodic stripping voltammetry and total-reflection X-ray fluorescence analysis. <i>Analytica Chimica Acta</i> , 2003, 498, 93-104. | 5.4 | 72 |
| 9 | How does the metallothionein induction in bivalves meet the criteria for biomarkers of metal exposure?. <i>Environmental Pollution</i> , 2016, 212, 257-268. | 7.5 | 65 |
| 10 | Effects of Silver Nitrate and Silver Nanoparticles on a Planktonic Community: General Trends after Short-Term Exposure. <i>PLoS ONE</i> , 2014, 9, e95340. | 2.5 | 65 |
| 11 | Impact of humic substances on the aqueous solubility, uptake and bioaccumulation of platinum, palladium and rhodium in exposure studies with <i>Dreissena polymorpha</i> . <i>Environmental Pollution</i> , 2007, 146, 444-451. | 7.5 | 49 |
| 12 | Toxicity of platinum, palladium and rhodium to <i>Daphnia magna</i> in single and binary metal exposure experiments. <i>Environmental Pollution</i> , 2017, 224, 368-376. | 7.5 | 41 |
| 13 | A direct solid sampling analysis method for the detection of silver nanoparticles in biological matrices. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 295-305. | 3.7 | 31 |
| 14 | Assessment of sublethal endpoints after chronic exposure of the nematode <i>Caenorhabditis elegans</i> to palladium, platinum and rhodium. <i>Environmental Pollution</i> , 2017, 230, 31-39. | 7.5 | 23 |
| 15 | Predicted sediment toxicity downstream of combined sewer overflows corresponds with effects measured in two sediment contact bioassays. <i>Environmental Pollution</i> , 2019, 248, 782-791. | 7.5 | 22 |
| 16 | The role of fish helminth parasites in monitoring metal pollution in aquatic ecosystems: a case study in the world's most productive platinum mining region. <i>Parasitology Research</i> , 2020, 119, 2783-2798. | 1.6 | 20 |
| 17 | Human health risks associated with consumption of fish contaminated with trace elements from intensive mining activities in a peri-urban region. <i>Science of the Total Environment</i> , 2022, 825, 154011. | 8.0 | 16 |
| 18 | Lessons learned from studies with the freshwater mussel <i>Dreissena polymorpha</i> exposed to platinum, palladium and rhodium. <i>Science of the Total Environment</i> , 2018, 615, 1396-1405. | 8.0 | 14 |

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|----|--|-----|-----------|
| 19 | Bioaccumulation and metal-associated biomarker responses in a freshwater mussel, <i>Dreissena polymorpha</i> , following short-term platinum exposure. <i>Environmental Pollution</i> , 2019, 246, 69-78. | 7.5 | 12 |
| 20 | The Application of Artificial Mussels in Conjunction with Transplanted Bivalves to Assess Elemental Exposure in a Platinum Mining Area. <i>Water (Switzerland)</i> , 2020, 12, 32. | 2.7 | 12 |
| 21 | Nanoparticulate versus ionic silver: Behavior in the tank water, bioaccumulation, elimination and subcellular distribution in the freshwater mussel <i>Dreissena polymorpha</i> . <i>Environmental Pollution</i> , 2017, 222, 251-260. | 7.5 | 10 |
| 22 | Metal contamination and toxicity of soils and river sediments from the world's largest platinum mining area. <i>Environmental Pollution</i> , 2021, 286, 117284. | 7.5 | 10 |
| 23 | Field Studies on PGE in Aquatic Ecosystems. <i>Environmental Science and Engineering</i> , 2015, , 351-360. | 0.2 | 8 |
| 24 | Medium-term dynamics of element concentrations in a sparid fish and its isopod parasite after the Prestige oil-spill: Shifting baselines?. <i>Science of the Total Environment</i> , 2019, 686, 648-656. | 8.0 | 8 |
| 25 | Effects of conventionally-treated and ozonated wastewater on mortality, physiology, body length, and behavior of embryonic and larval zebrafish (<i>Danio rerio</i>). <i>Environmental Pollution</i> , 2021, 286, 117241. | 7.5 | 8 |
| 26 | Silver stress differentially affects growth of phototrophic and heterotrophic chryomonad flagellate populations. <i>Environmental Pollution</i> , 2019, 244, 314-322. | 7.5 | 6 |
| 27 | Mechanistic simulation of bioconcentration kinetics of waterborne Cd, Ag, Pd, and Pt in the zebra mussel <i>Dreissena polymorpha</i> . <i>Chemosphere</i> , 2020, 242, 124967. | 8.2 | 5 |
| 28 | Laboratory and field studies on the use of artificial mussels as a monitoring tool of platinum exposure in the freshwater environment. <i>Environmental Sciences Europe</i> , 2021, 33, . | 5.5 | 5 |
| 29 | Metal and metalloid concentrations in the southern African endemic inter- and infratidal super klipfish, <i>Clinus superciliosus</i> , from the west and south coasts of South Africa. <i>Marine Pollution Bulletin</i> , 2021, 172, 112852. | 5.0 | 4 |
| 30 | Progress in ecotoxicology, environmental chemistry and ecology. <i>Environmental Sciences Europe</i> , 2014, 26, 23. | 5.5 | 2 |