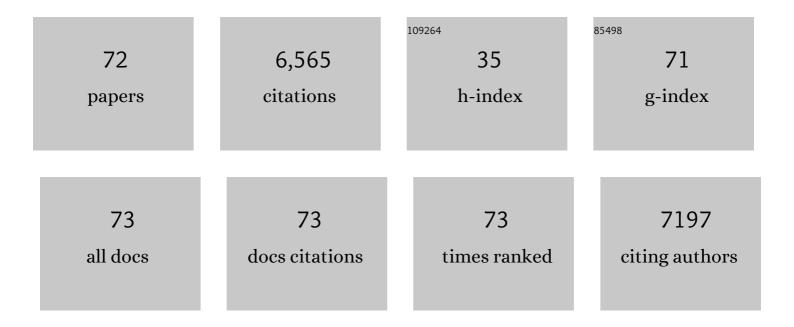
## Rälf Kaegi

List of Publications by Year in descending order

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RÃME KAECI

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Ingested nano- and microsized polystyrene particles surpass the intestinal barrier and accumulate in the body. NanoImpact, 2022, 25, 100374.  | 2.4 | 20        |
| 2  | Quantification and classification of engineered, incidental, and natural cerium-containing particles by spICP-TOFMS. Environmental Science: Nano, 2022, 9, 1627-1638.   | 2.2 | 10        |
| 3  | Stabilization of Ferrihydrite and Lepidocrocite by Silicate during Fe(II)-Catalyzed Mineral<br>Transformation: Impact on Particle Morphology and Silicate Distribution. Environmental Science<br>& Technology, 2022, 56, 5929-5938.                 | 4.6 | 25        |
| 4  | The use of surrogate standards as a QA/QC tool for routine analysis of microplastics in sewage sludge. Science of the Total Environment, 2022, 835, 155485.   | 3.9 | 5         |
| 5  | Direct analysis of nanoparticles in organic solvents by ICPMS with microdroplet injection. Journal of<br>Analytical Atomic Spectrometry, 2022, 37, 1738-1750.   | 1.6 | 3         |
| 6  | Emerging investigator series: automated single-nanoparticle quantification and classification: a<br>holistic study of particles into and out of wastewater treatment plants in Switzerland.<br>Environmental Science: Nano, 2021, 8, 1211-1225.     | 2.2 | 19        |
| 7  | Mercury Reduction by Nanoparticulate Vivianite. Environmental Science & Technology, 2021, 55, 3399-3407.  | 4.6 | 18        |
| 8  | Ingestion of bivalve droppings by benthic invertebrates may lead to the transfer of nanomaterials in the aquatic food chain. Environmental Sciences Europe, 2021, 33, .   | 2.6 | 8         |
| 9  | Quantification of individual Rare Earth Elements from industrial sources in sewage sludge. Water<br>Research X, 2021, 11, 100092.   | 2.8 | 23        |
| 10 | Quantification of Nanoparticles in Dispersions Using Transmission Electron Microscopy. Microscopy and Microanalysis, 2021, 27, 557-565.   | 0.2 | 1         |
| 11 | Transformation of TiO2 (nano)particles during sewage sludge incineration. Journal of Hazardous<br>Materials, 2021, 411, 124932.   | 6.5 | 5         |
| 12 | Quantification and Clustering of Inorganic Nanoparticles in Wastewater Treatment Plants across<br>Switzerland. Chimia, 2021, 75, 642.   | 0.3 | 1         |
| 13 | Release of gold (Au), silver (Ag) and cerium dioxide (CeO2) nanoparticles from sewage sludge incineration ash. Environmental Science: Nano, 2021, 8, 3220-3232.   | 2.2 | 4         |
| 14 | Characterization of nanomaterials by transmission electron microscopy: Measurement procedures. ,<br>2020, , 29-48.  |     | 4         |
| 15 | Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. Environmental Science: Nano, 2020, 7, 13-36.  | 2.2 | 32        |
| 16 | Bioavailability of silver from wastewater and planktonic food borne silver nanoparticles in the rainbow trout Oncorhynchus mykiss. Science of the Total Environment, 2020, 706, 135695.   | 3.9 | 26        |
| 17 | Looking at Silver-Based Nanoparticles in Environmental Water Samples: Repetitive Cloud Point<br>Extraction Bridges Gaps in Electron Microscopy for Naturally Occurring Nanoparticles.<br>Environmental Science & Technology, 2020, 54, 12063-12071. | 4.6 | 7         |
| 18 | Exposure and Possible Risks of Engineered Nanomaterials in the Environment—Current Knowledge and Directions for the Future. Reviews of Geophysics, 2020, 58, e2020RG000710.   | 9.0 | 44        |

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|----|---|------|-----------|
| 19 | Quantification of anthropogenic and geogenic Ce in sewage sludge based on Ce oxidation state and rare earth element patterns. Water Research X, 2020, 9, 100059.  | 2.8  | 9         |
| 20 | Organic matter influences transformation products of ferrihydrite exposed to sulfide.<br>Environmental Science: Nano, 2020, 7, 3405-3418.   | 2.2  | 23        |
| 21 | Iron and Sulfur Precursors Affect Crystalline Structure, Speciation, and Reactivity of Sulfidized<br>Nanoscale Zerovalent Iron. Environmental Science & Technology, 2020, 54, 13294-13303.                          | 4.6  | 128       |
| 22 | Electrophoretic Deposition of Nanoporous Oxide Coatings from Concentrated CuO Nanoparticle<br>Dispersions. Langmuir, 2020, 36, 8075-8085.   | 1.6  | 11        |
| 23 | Key principles and operational practices for improved nanotechnology environmental exposure assessment. Nature Nanotechnology, 2020, 15, 731-742.   | 15.6 | 66        |
| 24 | Effects of natural organic matter (NOM), metal-to-sulfide ratio and Mn2+on cadmium sulfide nanoparticle growth and colloidal stability. Environmental Science: Nano, 2020, 7, 3385-3404.                            | 2.2  | 7         |
| 25 | Long-term assessment of nanoplastic particle and microplastic fiber flux through a pilot wastewater treatment plant using metal-doped plastics. Water Research, 2020, 182, 115860.                                  | 5.3  | 80        |
| 26 | Sulfur Loading and Speciation Control the Hydrophobicity, Electron Transfer, Reactivity, and<br>Selectivity of Sulfidized Nanoscale Zerovalent Iron. Advanced Materials, 2020, 32, e1906910.                        | 11.1 | 204       |
| 27 | Effect of NOM on copper sulfide nanoparticle growth, stability, and oxidative dissolution.<br>Environmental Science: Nano, 2020, 7, 1163-1178.  | 2.2  | 11        |
| 28 | Synchrotron hard X-ray chemical imaging of trace element speciation in heterogeneous samples:<br>development of criteria for uncertainty analysis. Journal of Analytical Atomic Spectrometry, 2020, 35,<br>567-579. | 1.6  | 6         |
| 29 | Evaluation of a TEM based Approach for Size Measurement of Particulate (Nano)materials. Materials, 2019, 12, 2274.  | 1.3  | 40        |
| 30 | The role of size and protein shells in the toxicity to algal photosynthesis induced by ionic silver delivered from silver nanoparticles. Science of the Total Environment, 2019, 692, 233-239.                      | 3.9  | 18        |
| 31 | The influence of surface coating functionality on the aging of nanoparticles in wastewater.<br>Environmental Science: Nano, 2019, 6, 2470-2483.   | 2.2  | 8         |
| 32 | Ferrihydrite Growth and Transformation in the Presence of Ferrous Iron and Model Organic Ligands.<br>Environmental Science & Technology, 2019, 53, 13636-13647.   | 4.6  | 68        |
| 33 | Transformation of Nanoscale and Ionic Cu and Zn during the Incineration of Digested Sewage Sludge<br>(Biosolids). Environmental Science & Technology, 2019, 53, 11704-11713.  | 4.6  | 19        |
| 34 | Cost-effective sol-gel synthesis of porous CuO nanoparticle aggregates with tunable specific surface<br>area. Scientific Reports, 2019, 9, 11758.   | 1.6  | 76        |
| 35 | Decreases in Iron Oxide Reducibility during Microbial Reductive Dissolution and Transformation of Ferrihydrite. Environmental Science & amp; Technology, 2019, 53, 8736-8746.                                       | 4.6  | 52        |
| 36 | AutoEM: a software for automated acquisition and analysis of nanoparticles. Journal of Nanoparticle<br>Research, 2019, 21, 1.   | 0.8  | 22        |

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|----|--|-----|-----------|
| 37 | Transformation of cerium dioxide nanoparticles during sewage sludge incineration. Environmental<br>Science: Nano, 2019, 6, 1765-1776.  | 2.2 | 13        |
| 38 | Reactivity, Selectivity, and Long-Term Performance of Sulfidized Nanoscale Zerovalent Iron with<br>Different Properties. Environmental Science & Technology, 2019, 53, 5936-5945.  | 4.6 | 194       |
| 39 | Electrochemical Analysis of Changes in Iron Oxide Reducibility during Abiotic Ferrihydrite<br>Transformation into Goethite and Magnetite. Environmental Science & Technology, 2019, 53,<br>3568-3578.  | 4.6 | 60        |
| 40 | Ozonation of municipal wastewater effluent containing metal sulfides and metal complexes: Kinetics<br>and mechanisms. Water Research, 2018, 134, 170-180.  | 5.3 | 35        |
| 41 | Risks, Release and Concentrations of Engineered Nanomaterial in the Environment. Scientific Reports, 2018, 8, 1565.  | 1.6 | 306       |
| 42 | Silver nanoparticles in sewage sludge: Bioavailability of sulfidized silver to the terrestrial isopod<br><i>Porcellio scaber</i> . Environmental Toxicology and Chemistry, 2018, 37, 1606-1613.  | 2.2 | 49        |
| 43 | Where is the nano? Analytical approaches for the detection and quantification of TiO <sub>2</sub><br>engineered nanoparticles in surface waters. Environmental Science: Nano, 2018, 5, 313-326.  | 2.2 | 101       |
| 44 | Searching for relevant criteria to distinguish natural <i>vs.</i> anthropogenic TiO <sub>2</sub><br>nanoparticles in soils. Environmental Science: Nano, 2018, 5, 2853-2863.   | 2.2 | 30        |
| 45 | Influence of organic compounds on the sulfidation of copper oxide nanoparticles. Environmental Science: Nano, 2018, 5, 2560-2569.  | 2.2 | 13        |
| 46 | Activated Carbon, Biochar and Charcoal: Linkages and Synergies across Pyrogenic Carbon's ABCs.<br>Water (Switzerland), 2018, 10, 182.  | 1.2 | 195       |
| 47 | Combustion of Sewage Sludge: Kinetics and Speciation of the Combustible. Energy & Fuels, 2018, 32, 10656-10667.  | 2.5 | 10        |
| 48 | Single-particle multi-element fingerprinting (spMEF) using inductively-coupled plasma time-of-flight<br>mass spectrometry (ICP-TOFMS) to identify engineered nanoparticles against the elevated natural<br>background in soils. Environmental Science: Nano, 2017, 4, 307-314. | 2.2 | 128       |
| 49 | Fate of Silver Nanoparticles in Constructed Wetlands—a Microcosm Study. Water, Air, and Soil<br>Pollution, 2017, 228, 1.   | 1.1 | 21        |
| 50 | Release of TiO 2 – (Nano) particles from construction and demolition landfills. NanoImpact, 2017, 8,<br>73-79.   | 2.4 | 39        |
| 51 | Sulfidation kinetics of copper oxide nanoparticles. Environmental Science: Nano, 2017, 4, 1733-1741.   | 2.2 | 33        |
| 52 | Quantification of Element Fluxes in Wastewaters: A Nationwide Survey in Switzerland. Environmental<br>Science & Technology, 2017, 51, 10943-10953.   | 4.6 | 62        |
| 53 | Fate of Ag-NPs in Sewage Sludge after Application on Agricultural Soils. Environmental Science &<br>Technology, 2016, 50, 1759-1768.   | 4.6 | 151       |
| 54 | Transformation of Silver Nanoparticles in Sewage Sludge during Incineration. Environmental Science<br>& Technology, 2016, 50, 3503-3510.   | 4.6 | 66        |

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|----|---|-----|-----------|
| 55 | Effect of humic acid on the kinetics of silver nanoparticle sulfidation. Environmental Science: Nano, 2016, 3, 203-212.   | 2.2 | 59        |
| 56 | Transformation of AgCl nanoparticles in a sewer system — A field study. Science of the Total Environment, 2015, 535, 20-27.   | 3.9 | 37        |
| 57 | Effect of Ozone Treatment on Nano-Sized Silver Sulfide in Wastewater Effluent. Environmental<br>Science & Technology, 2015, 49, 10911-10919.  | 4.6 | 38        |
| 58 | Toward a comprehensive and realistic risk evaluation of engineered nanomaterials in the urban water system. Frontiers in Chemistry, 2014, 2, 39.  | 1.8 | 20        |
| 59 | Sulfidation Kinetics of Silver Nanoparticles Reacted with Metal Sulfides. Environmental Science &<br>Technology, 2014, 48, 4885-4892.   | 4.6 | 93        |
| 60 | Temperature-dependent formation of metallic copper and metal sulfide nanoparticles during flooding of a contaminated soil. Geochimica Et Cosmochimica Acta, 2013, 103, 316-332.   | 1.6 | 71        |
| 61 | Progress towards the responsible application of nanotechnology for water treatment. Water Research, 2013, 47, 3865.   | 5.3 | 8         |
| 62 | Fate and transformation of silver nanoparticles in urban wastewater systems. Water Research, 2013,<br>47, 3866-3877.  | 5.3 | 384       |
| 63 | Mercury Mobilization in a Flooded Soil by Incorporation into Metallic Copper and Metal Sulfide Nanoparticles. Environmental Science & amp; Technology, 2013, 47, 7739-7746.   | 4.6 | 39        |
| 64 | Behavior of Metallic Silver Nanoparticles in a Pilot Wastewater Treatment Plant. Environmental<br>Science & Technology, 2011, 45, 3902-3908.  | 4.6 | 684       |
| 65 | Size-fractionated characterization and quantification of nanoparticle release rates from a consumer spray product containing engineered nanoparticles. Journal of Nanoparticle Research, 2010, 12, 2481-2494.                     | 0.8 | 90        |
| 66 | Release of silver nanoparticles from outdoor facades. Environmental Pollution, 2010, 158, 2900-2905.  | 3.7 | 478       |
| 67 | Effect of phosphate, silicate, and Ca on Fe(III)-precipitates formed in aerated Fe(II)- and As(III)-containing<br>water studied by X-ray absorption spectroscopy. Geochimica Et Cosmochimica Acta, 2010, 74, 164-186.             | 1.6 | 199       |
| 68 | Effect of citrate on the local Fe coordination in ferrihydrite, arsenate binding, and ternary arsenate complex formation. Geochimica Et Cosmochimica Acta, 2010, 74, 5574-5592.   | 1.6 | 79        |
| 69 | Effect of phosphate, silicate, and Ca on the morphology, structure and elemental composition of Fe(III)-precipitates formed in aerated Fe(II) and As(III) containing water. Geochimica Et Cosmochimica Acta, 2010, 74, 5798-5816. | 1.6 | 71        |
| 70 | Contaminant mobilization by metallic copper and metal sulphide colloids in flooded soil. Nature Geoscience, 2009, 2, 267-271.   | 5.4 | 167       |
| 71 | Toxicity of Silver Nanoparticles to <i>Chlamydomonas reinhardtii</i> . Environmental Science &<br>Technology, 2008, 42, 8959-8964.  | 4.6 | 1,333     |
| 72 | Theoretical and Experimental Evaluation of a Portable Electrostatic TEM Sampler. Aerosol Science and Technology, 2007, 41, 520-528.   | 1.5 | 45        |