

# Nicolas Finck

## List of Publications by Year in descending order

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36  
papers

535  
citations

687363

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677142

22  
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36  
docs citations

36  
times ranked

752  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Uranium Redox Transformations after U(VI) Coprecipitation with Magnetite Nanoparticles. Environmental Science & Technology, 2017, 51, 2217-2225.  | 10.0 | 112       |
| 2  | Adsorption of Selenium and Strontium on Goethite: EXAFS Study and Surface Complexation Modeling of the Ternary Systems. Environmental Science & Technology, 2017, 51, 3751-3758.  | 10.0 | 62        |
| 3  | Macroscopic and spectroscopic investigations on Eu(III) and Cm(III) sorption onto bayerite ( $\text{Al}(\text{OH})_3$ ) and corundum ( $\text{Al}_2\text{O}_3$ ). Journal of Colloid and Interface Science, 2016, 461, 215-224.   | 9.4  | 30        |
| 4  | Montmorillonite colloids: I. Characterization and stability of dispersions with different size fractions. Applied Clay Science, 2015, 114, 179-189.   | 5.2  | 26        |
| 5  | Sites of Lu(III) Sorbed to and Coprecipitated with Hectorite. Environmental Science & Technology, 2009, 43, 8807-8812.  | 10.0 | 22        |
| 6  | Adsorption of arsenic(V) onto single sheet iron oxide: X-ray absorption fine structure and surface complexation. Journal of Colloid and Interface Science, 2019, 554, 433-443.  | 9.4  | 20        |
| 7  | Selenide Retention by Mackinawite. Environmental Science & Technology, 2012, 46, 10004-10011.   | 10.0 | 18        |
| 8  | Temperature effects on the surface acidity properties of zirconium diphosphate. Journal of Colloid and Interface Science, 2007, 312, 230-236.   | 9.4  | 16        |
| 9  | High level nuclear waste glass corrosion in synthetic clay pore solution and retention of actinides in secondary phases. Journal of Nuclear Materials, 2009, 385, 456-460.  | 2.7  | 16        |
| 10 | Structural iron in dioctahedral and trioctahedral smectites: a polarized XAS study. Physics and Chemistry of Minerals, 2015, 42, 847-859.   | 0.8  | 16        |
| 11 | Am(III) coprecipitation with and adsorption on the smectite hectorite. Chemical Geology, 2015, 409, 12-19.  | 3.3  | 15        |
| 12 | Trivalent Actinide Uptake by Iron (Hydr)oxides. Environmental Science & Technology, 2016, 50, 10428-10436.  | 10.0 | 15        |
| 13 | Tetrahedral charge and Fe content in dioctahedral smectites. Clay Minerals, 2017, 52, 51-65.  | 0.6  | 15        |
| 14 | Temperature effects on the interaction mechanisms between U(VI) and Eu(III) and $\text{ZrP}_2\text{O}_7$ : experiment and modelling. Radiochimica Acta, 2008, 96, 11-21.  | 1.2  | 12        |
| 15 | Chemical status of U(VI) in cemented waste forms under saline conditions. Radiochimica Acta, 2010, 98, 674-683.   | 1.2  | 11        |
| 16 | Sorption of americium / europium onto magnetite under saline conditions: Batch experiments, surface complexation modelling and X-ray absorption spectroscopy study. Journal of Colloid and Interface Science, 2020, 561, 708-718. | 9.4  | 11        |
| 17 | Reactive Transport Modelling of the Long-Term Interaction between Carbon Steel and MX-80 Bentonite at 25 °C. Minerals (Basel, Switzerland), 2021, 11, 1272.   | 2.0  | 11        |
| 18 | TRLFS characterization of Eu(III)-doped synthetic organo-hectorite. Journal of Contaminant Hydrology, 2008, 102, 253-262.   | 3.3  | 10        |

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|----|--|-----|-----------|
| 19 | Interaction of selenite with reduced Fe and/or S species: An XRD and XAS study. Journal of Contaminant Hydrology, 2016, 188, 44-51.  | 3.3 | 9         |
| 20 | Yttrium co-precipitation with smectite: A polarized XAS and AsFIFFF study. Applied Clay Science, 2017, 137, 11-21.   | 5.2 | 9         |
| 21 | Treatment of temperature dependence of interfacial speciation by speciation codes and temperature congruence of oxide surface charge. Applied Geochemistry, 2019, 102, 26-33.  | 3.0 | 9         |
| 22 | Flow field-flow fractionation (FIFFF) coupled to sensitive detection techniques: a way to examine radionuclide interactions with nanoparticles. Mineralogical Magazine, 2012, 76, 2709-2721.   | 1.4 | 8         |
| 23 | Aqueous U(VI) interaction with magnetite nanoparticles in a mixed flow reactor system: HR-XANES study. Journal of Physics: Conference Series, 2016, 712, 012086.   | 0.4 | 8         |
| 24 | Structural iron in smectites with different charge locations. Physics and Chemistry of Minerals, 2019, 46, 639-661.  | 0.8 | 8         |
| 25 | Characterization of Eu(III) co-precipitated with and adsorbed on hectorite: from macroscopic crystallites to nanoparticles. Mineralogical Magazine, 2012, 76, 2723-2740.   | 1.4 | 7         |
| 26 | XAS signatures of Am(III) adsorbed onto magnetite and maghemite. Journal of Physics: Conference Series, 2016, 712, 012085.   | 0.4 | 7         |
| 27 | Adsorption of Strontium onto Synthetic Iron(III) Oxide up to High Ionic Strength Systems. Minerals (Basel, Switzerland), 2021, 11, 1093.   | 2.0 | 7         |
| 28 | Characterization and radionuclide retention properties of heat-treated concrete. Physics and Chemistry of the Earth, 2014, 70-71, 45-52.   | 2.9 | 5         |
| 29 | Fate of Lu(III) sorbed on 2-line ferrihydrite at pH 5.7 and aged for 12 years at room temperature. I: insights from ICP-OES, XRD, ESEM, AsFIFFF/ICP-MS, and EXAFS spectroscopy. Environmental Science and Pollution Research, 2019, 26, 5238-5250. | 5.3 | 4         |
| 30 | Fate of Lu(III) sorbed on 2-line ferrihydrite at pH 5.7 and aged for 12 years at room temperature. II: insights from STEM-EDXS and DFT calculations. Environmental Science and Pollution Research, 2019, 26, 5282-5293.                            | 5.3 | 4         |
| 31 | Fluorescence X-ray Absorption Study of ScCl <sub>3</sub> -Doped Sodium Alanate. Journal of Physical Chemistry C, 2015, 119, 15810-15815.   | 3.1 | 3         |
| 32 | Retention of Iodide and Chloride by Formation of a Green Rust Solid Solution GR-Cl <sub>2</sub> : A Multiscale Approach. Inorganic Chemistry, 2021, 60, 10585-10595.   | 4.0 | 3         |
| 33 | Synthetic Smectite Colloids: Characterization of Nanoparticles after Co-Precipitation in the Presence of Lanthanides and Tetravalent Elements (Zr, Th). Chromatography (Basel), 2015, 2, 545-566.  | 1.2 | 2         |
| 34 | First Principle Investigation of the Incorporation of Trivalent Lanthanides and Actinides in Hydroxycarbonate and Hydroxychloride Green Rust. Journal of Physical Chemistry C, 2022, 126, 8016-8028.   | 3.1 | 2         |
| 35 | Iron speciation in Opalinus clay minerals. Applied Clay Science, 2020, 193, 105679.  | 5.2 | 1         |
| 36 | Unexpected behavior of sodium sulfate observed in experimental freezing and corrosion studies. Journal of Raman Spectroscopy, 2021, 52, 1499-1506.   | 2.5 | 1         |