Rainer Daehn

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | ldentification of the Chromate Sorption Mechanism Conversions in a Quartz–Montmorillonite–Ferrihydrite System. ACS Earth and Space Chemistry, 2022, 6, 90-99. | 2.7 | 3 |
| 2 | Iron speciation in blast furnace slag cements. Cement and Concrete Research, 2021, 140, 106287. | 11.0 | 24 |
| 3 | Fe(II) interaction with cement phases: Method development, wet chemical studies and X-ray absorption spectroscopy. Journal of Colloid and Interface Science, 2021, 588, 692-704. | 9.4 | 18 |
| 4 | An in-situ 3D micro-XRD investigation of water uptake by alkali-silica-reaction (ASR) product. Cement and Concrete Research, 2021, 141, 106331. | 11.0 | 26 |
| 5 | Thallium sorption by soil manganese oxides: Insights from synchrotron X-ray micro-analyses on a naturally thallium-rich soil. Geochimica Et Cosmochimica Acta, 2021, 302, 193-208. | 3.9 | 19 |
| 6 | Zn uptake by illite and argillaceous rocks. Geochimica Et Cosmochimica Acta, 2021, 312, 180-193. | 3.9 | 4 |
| 7 | Atomistic structure of alkali-silica reaction products refined from X-ray diffraction and micro X-ray absorption data. Cement and Concrete Research, 2020, 129, 105958. | 11.0 | 38 |
| 8 | Fe(III) uptake by calcium silicate hydrates. Applied Geochemistry, 2020, 113, 104460. | 3.0 | 31 |
| 9 | Mechanical behavior and phase change of alkali-silica reaction products under hydrostatic compression. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 674-682. | 1.1 | 11 |
| 10 | Structural characterisation of magnesium (sodium) aluminium silicate hydrate (M-(N)-A-S-H) phases by X-ray absorption near-edge spectroscopy. Applied Geochemistry, 2020, 123, 104750. | 3.0 | 7 |
| 11 | Iron Adsorption on Clays Inferred from Atomistic Simulations and X-ray Absorption Spectroscopy. Environmental Science & Technology, 2020, 54, 11886-11893. | 10.0 | 12 |
| 12 | Characterization of Structural Iron in Smectites — An Ab Initio Based X-ray Absorption Spectroscopy Study. Environmental Science & Technology, 2019, 53, 6877-6886. | 10.0 | 10 |
| 13 | Influence of decalcification on structural and mechanical properties of synthetic calcium silicate hydrate (C-S-H). Cement and Concrete Research, 2019, 123, 105793. | 11.0 | 64 |
| 14 | Characterisation of magnesium silicate hydrate phases (M-S-H): A combined approach using synchrotron-based absorption-spectroscopy and ab initio calculations. Cement and Concrete Research, 2018, 109, 175-183. | 11.0 | 23 |
| 15 | Soft X-ray absorption near-edge investigations of Mg-containing mineral phases relevant for cementitious materials. Physics and Chemistry of the Earth, 2017, 99, 168-174. | 2.9 | 7 |
| 16 | Combined XAFS Spectroscopy and Ab Initio Study on the Characterization of Iron Incorporation by Montmorillonite. Environmental Science & Technology, 2017, 51, 10585-10594. | 10.0 | 20 |
| 17 | Combined Xâ€ray microanalytical study of the Nd uptake capability of argillaceous rocks. X-Ray Spectrometry, 2016, 45, 54-62. | 1.4 | 7 |
| 18 | Application of micro X-ray diffraction to investigate the reaction products formed by the alkali–silica reaction in concrete structures. Cement and Concrete Research, 2016, 79, 49-56. | 11.0 | 52 |

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|----|--|------|-----------|
| 19 | Identification of the Thermodynamically Stable Feâ€Containing Phase in Aged Cement Pastes. Journal of the American Ceramic Society, 2015, 98, 2286-2294. | 3.8 | 34 |
| 20 | Characteristics of uranium uptake of Boda Claystone Formation as the candidate host rock of high level radioactive waste repository in Hungary. Environmental Earth Sciences, 2015, 73, 209-219. | 2.7 | 18 |
| 21 | Competition behaviour of metal uptake in cementitious systems: An XRD and EXAFS investigation of Nd- and Zn-loaded 11Ã tobermorite. Physics and Chemistry of the Earth, 2014, 70-71, 32-38. | 2.9 | 26 |
| 22 | Fe-containing phases in hydrated cements. Cement and Concrete Research, 2014, 58, 45-55. | 11.0 | 126 |
| 23 | Fe(II) Uptake on Natural Montmorillonites. I. Macroscopic and Spectroscopic Characterization. Environmental Science & Technology, 2014, 48, 8688-8697. | 10.0 | 41 |
| 24 | Competitive Fe(II)–Zn(II) Uptake on a Synthetic Montmorillonite. Environmental Science & Technology, 2014, 48, 190-198. | 10.0 | 18 |
| 25 | Microscale analysis of metal uptake by argillaceous rocks using positive matrix factorization of microscopic X-ray fluorescence elemental maps. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 91, 12-23. | 2.9 | 9 |
| 26 | X-ray micro-diffraction studies of heterogeneous interfaces between cementitious materials and geological formations. Physics and Chemistry of the Earth, 2014, 70-71, 96-103. | 2.9 | 7 |
| 27 | Np(V/VI) redox chemistry in cementitious systems: XAFS investigations on the speciation under anoxic and oxidizing conditions. Applied Geochemistry, 2013, 28, 109-118. | 3.0 | 20 |
| 28 | Fe(II) Sorption on a Synthetic Montmorillonite. A Combined Macroscopic and Spectroscopic Study. Environmental Science & Technology, 2013, 47, 6978-6986. | 10.0 | 30 |
| 29 | EXAFS investigation on U(VI) immobilization in hardened cement paste: influence of experimental conditions on speciation. Radiochimica Acta, 2013, 101, 379-389. | 1.2 | 31 |
| 30 | Micro- and Macroscopic Investigations of Actinide Binding in Cementitious Materials. , 2013, , 93-101. | | 1 |
| 31 | Structural Insight into Iodide Uptake by AFm Phases. Environmental Science & Technology, 2012, 46, 3874-3881. | 10.0 | 48 |
| 32 | Anion and Cation Order in Iodide-Bearing Mg/Zn–Al Layered Double Hydroxides. Journal of Physical Chemistry C, 2012, 116, 5460-5475. | 3.1 | 38 |
| 33 | U(VI) sorption on montmorillonite in the absence and presence of carbonate: A macroscopic and microscopic study. Geochimica Et Cosmochimica Acta, 2012, 93, 262-277. | 3.9 | 86 |
| 34 | Zinc Adsorption on Clays Inferred from Atomistic Simulations and EXAFS Spectroscopy. Environmental Science & Technology, 2012, 46, 5713-5719. | 10.0 | 70 |
| 35 | Soft X-ray Spectromicroscopy of Cobalt Uptake by Cement. Environmental Science & Technology, 2011, 45, 2021-2027. | 10.0 | 4 |
| 36 | Uptake of Np(IV) by C–S–H Phases and Cement Paste: An EXAFS Study. Environmental Science & Technology, 2011, 45, 8765-8771. | 10.0 | 43 |

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|----|---|------|-----------|
| 37 | Uptake of Eu(III) by 11Ã tobermorite and xonotlite: A TRLFS and EXAFS study. Geochimica Et Cosmochimica Acta, 2011, 75, 2017-2029. | 3.9 | 27 |
| 38 | Investigation of the different binding edge sites for Zn on montmorillonite using P-EXAFS – The strong/weak site concept in the 2SPNE SC/CE sorption model. Geochimica Et Cosmochimica Acta, 2011, 75, 5154-5168. | 3.9 | 49 |
| 39 | Towards possible opportunities in nuclear materials science and technology at an X-ray free electron laser research facility. Journal of Nuclear Materials, 2011, 416, 242-251. | 2.7 | 9 |
| 40 | Macro- and micro-scale studies on U(VI) immobilization in hardened cement paste. Journal of Radioanalytical and Nuclear Chemistry, 2010, 286, 793-800. | 1.5 | 41 |
| 41 | EXAFS study of Nd(III) uptake by amorphous calcium silicate hydrates (C–S–H). Journal of Colloid and Interface Science, 2010, 342, 1-7. | 9.4 | 34 |
| 42 | Reduction of selenite and selenate on anoxically corroded iron and the synergistic effect of uranyl reduction. Journal of Nuclear Materials, 2010, 406, 230-237. | 2.7 | 6 |
| 43 | Micro-spectroscopic investigation of Al and S speciation in hardened cement paste. Cement and Concrete Research, 2010, 40, 885-891. | 11.0 | 21 |
| 44 | Mechanisms of Nd(III) uptake by 11Ã tobermorite and xonotlite. Applied Geochemistry, 2010, 25, 763-777. | 3.0 | 26 |
| 45 | Immobilization of selenate by iron in aqueous solution under anoxic conditions and the influence of uranyl. Journal of Nuclear Materials, 2009, 392, 519-524. | 2.7 | 14 |
| 46 | Macro- and Microspectroscopic Study of Nd (III) Uptake Mechanisms in Hardened Cement Paste. Environmental Science & Technology, 2009, 43, 8462-8468. | 10.0 | 9 |
| 47 | Na, Mg, Ni and Cs distribution and speciation after long-term alteration of a simulated nuclear waste glass: A micro-XAS/XRF/XRD and wet chemical study. Geochimica Et Cosmochimica Acta, 2009, 73, 2283-2298. | 3.9 | 24 |
| 48 | Strontium Uptake by Cementitious Materials. Environmental Science & Technology, 2008, 42, 403-409. | 10.0 | 52 |
| 49 | Co Speciation in Hardened Cement Paste:Â A Macro- and Micro-Spectroscopic Investigation. Environmental Science & Technology, 2007, 41, 1902-1908. | 10.0 | 30 |
| 50 | Determination of the elemental distribution and chemical speciation in highly heterogeneous cementitious materials using synchrotron-based micro-spectroscopic techniques. Cement and Concrete Research, 2007, 37, 1473-1482. | 11.0 | 40 |
| 51 | Microscale Investigations of Ni Uptake by Cement Using a Combination of Scanning Electron Microscopy and Synchrotron-Based Techniques. Environmental Science & Technology, 2006, 40, 7702-7709. | 10.0 | 26 |
| 52 | Spectroscopic Investigation of Ni Speciation in Hardened Cement Paste. Environmental Science & Technology, 2006, 40, 2275-2282. | 10.0 | 36 |
| 53 | Speciation of heavy metals in cement-stabilized waste forms: A micro-spectroscopic study. Journal of Geochemical Exploration, 2006, 88, 77-80. | 3.2 | 26 |
| 54 | Micro-scale Chemical Speciation of Highly Heterogeneous Cementitious Materials Using Synchrotron-based X-Ray Absorption Spectroscopy. Chimia, 2006, 60, 149-149. | 0.6 | 1 |

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|----|--|------|-----------|
| 55 | Identification of Neoformed Ni-Phyllosilicates Upon Ni Uptake in Montmorillonite: A Transmission Electron Microscopy and Extended X-Ray Absorption Fine Structure Study. Clays and Clay Minerals, 2006, 54, 209-219. | 1.3 | 15 |
| 56 | The use of (micro)-X-ray absorption spectroscopy in cement research. Waste Management, 2006, 26, 699-705. | 7.4 | 13 |
| 57 | EXAFS study of U(VI) uptake by calcium silicate hydrates. Journal of Colloid and Interface Science, 2006, 303, 195-204. | 9.4 | 63 |
| 58 | The influence of hydration time on the Ni uptake by cement. European Physical Journal D, 2006, 56, D599-D607. | 0.4 | 0 |
| 59 | The influence of hydration time on the Ni uptake by cement. European Physical Journal D, 2006, 56, D599-D607. | 0.4 | 3 |
| 60 | Immobilization of Ni by Al-modified montmorillonite: A novel uptake mechanism. Geochimica Et Cosmochimica Acta, 2005, 69, 4211-4225. | 3.9 | 30 |
| 61 | Structural evidence for the sorption of Ni(II) atoms on the edges of montmorillonite clay minerals: a polarized X-ray absorption fine structure study. Geochimica Et Cosmochimica Acta, 2003, 67, 1-15. | 3.9 | 109 |
| 62 | lodine species uptake by cement and CSH studied by I K-edge X-ray absorption spectroscopy. Radiochimica Acta, 2002, 90, . | 1.2 | 34 |
| 63 | Structure of uranium sorption complexes at montmorillonite edge sites. Radiochimica Acta, 2002, 90, 653-657. | 1.2 | 118 |
| 64 | Neoformation of Ni phyllosilicate upon Ni uptake on montmorillonite: A kinetics study by powder and polarized extended X-ray absorption fine structure spectroscopy. Geochimica Et Cosmochimica Acta, 2002, 66, 2335-2347. | 3.9 | 93 |
| 65 | Th Uptake on Montmorillonite: A Powder and Polarized Extended X-Ray Absorption Fine Structure (EXAFS) Study. Journal of Colloid and Interface Science, 2002, 249, 8-21. | 9.4 | 51 |
| 66 | Sorption Mechanisms of Zinc to Calcium Silicate Hydrate:Â X-ray Absorption Fine Structure (XAFS) Investigation. Environmental Science & Technology, 2001, 35, 1550-1555. | 10.0 | 85 |
| 67 | Ni clay neoformation on montmorillonite surface. Journal of Synchrotron Radiation, 2001, 8, 533-535. | 2.4 | 18 |
| 68 | Ni phases formed in cement and cement systems under highly alkaline conditions: an XAFS study. Journal of Synchrotron Radiation, 2001, 8, 916-918. | 2.4 | 20 |
| 69 | Spectroscopic Evidence for the Formation of Layered Niâ^Al Double Hydroxides in Cement. Environmental Science & Technology, 2000, 34, 4545-4548. | 10.0 | 67 |
| 70 | Threshold behaviour of L3 - M4,5M4,5 Auger transitions in 4d metals. Journal of Electron Spectroscopy and Related Phenomena, 1996, 79, 223-228. | 1.7 | 11 |