

Dominique J Tobler

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,988
citations

257450

24
h-index

254184

43
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58
all docs

58
docs citations

58
times ranked

2338
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A Field and Modeling Study of Fractured Rock Permeability Reduction Using Microbially Induced Calcite Precipitation. <i>Environmental Science & Technology</i> , 2013, 47, 13637-13643. | 10.0 | 178 |
| 2 | Comparison of rates of ureolysis between <i>Sporosarcina pasteurii</i> and an indigenous groundwater community under conditions required to precipitate large volumes of calcite. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3290-3301. | 3.9 | 152 |
| 3 | Quantification of initial steps of nucleation and growth of silica nanoparticles: An in-situ SAXS and DLS study. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5377-5393. | 3.9 | 135 |
| 4 | Microbially mediated plugging of porous media and the impact of differing injection strategies. <i>Ecological Engineering</i> , 2012, 42, 270-278. | 3.6 | 109 |
| 5 | The Structure of Sulfidized Zero-Valent Iron by One-Pot Synthesis: Impact on Contaminant Selectivity and Long-Term Performance. <i>Environmental Science & Technology</i> , 2019, 53, 4389-4396. | 10.0 | 99 |
| 6 | Controls on the rate of ureolysis and the morphology of carbonate precipitated by <i>S. Pasteurii</i> biofilms and limits due to bacterial encapsulation. <i>Ecological Engineering</i> , 2012, 41, 32-40. | 3.6 | 94 |
| 7 | Citrate Effects on Amorphous Calcium Carbonate (ACC) Structure, Stability, and Crystallization. <i>Advanced Functional Materials</i> , 2015, 25, 3081-3090. | 14.9 | 84 |
| 8 | Effect of pH on Amorphous Calcium Carbonate Structure and Transformation. <i>Crystal Growth and Design</i> , 2016, 16, 4500-4508. | 3.0 | 76 |
| 9 | Community Structure of Subsurface Biofilms in the Thermal Sulfidic Caves of Acquisanta Terme, Italy. <i>Applied and Environmental Microbiology</i> , 2010, 76, 5902-5910. | 3.1 | 72 |
| 10 | <i>In situ</i> grown silica sinters in Icelandic geothermal areas. <i>Geobiology</i> , 2008, 6, 481-502. | 2.4 | 65 |
| 11 | Bacterial diversity in five Icelandic geothermal waters: temperature and sinter growth rate effects. <i>Extremophiles</i> , 2011, 15, 473-485. | 2.3 | 64 |
| 12 | The Effect of Aspartic Acid and Glycine on Amorphous Calcium Carbonate (ACC) Structure, Stability and Crystallization. <i>Procedia Earth and Planetary Science</i> , 2014, 10, 143-148. | 0.6 | 61 |
| 13 | In situ and time resolved nucleation and growth of silica nanoparticles forming under simulated geothermal conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 114, 156-168. | 3.9 | 50 |
| 14 | Adsorption and Reduction of Arsenate during the Fe ²⁺ -Induced Transformation of Ferrihydrite. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 884-894. | 2.7 | 50 |
| 15 | Bone Char Mediated Dechlorination of Trichloroethylene by Green Rust. <i>Environmental Science & Technology</i> , 2020, 54, 3643-3652. | 10.0 | 44 |
| 16 | Microscale Analysis of Fractured Rock Sealed With Microbially Induced CaCO ₃ Precipitation: Influence on Hydraulic and Mechanical Performance. <i>Water Resources Research</i> , 2018, 54, 8295-8308. | 4.2 | 42 |
| 17 | Transport of <i>Sporosarcina pasteurii</i> in sandstone and its significance for subsurface engineering technologies. <i>Applied Geochemistry</i> , 2014, 42, 38-44. | 3.0 | 40 |
| 18 | Effect of Aspartic Acid and Glycine on Calcite Growth. <i>Crystal Growth and Design</i> , 2016, 16, 4813-4821. | 3.0 | 36 |

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|----|---|------|-----------|
| 19 | Structural transformation of sulfidized zerovalent iron and its impact on long-term reactivity. <i>Environmental Science: Nano</i> , 2019, 6, 3422-3430. | 4.3 | 31 |
| 20 | Calcite Growth Kinetics: Dependence on Saturation Index, $\text{Ca}^{2+}:\text{CO}_3^{2-}$ Activity Ratio, and Surface Atomic Structure. <i>Crystal Growth and Design</i> , 2016, 16, 3602-3612. | 3.0 | 30 |
| 21 | A Silicate/Glycine Switch To Control the Reactivity of Layered Iron(II)–Iron(III) Hydroxides for Dechlorination of Carbon Tetrachloride. <i>Environmental Science & Technology</i> , 2018, 52, 7876-7883. | 10.0 | 30 |
| 22 | Controlled biomineralization of magnetite (Fe_3O_4) by <i>Magnetospirillum gryphiswaldense</i> . <i>Mineralogical Magazine</i> , 2008, 72, 333-336. | 1.4 | 28 |
| 23 | Monitoring bacterially induced calcite precipitation in porous media using magnetic resonance imaging and flow measurements. <i>Journal of Contaminant Hydrology</i> , 2013, 152, 35-43. | 3.3 | 26 |
| 24 | Direct Visualization of Arsenic Binding on Green Rust Sulfate. <i>Environmental Science & Technology</i> , 2020, 54, 3297-3305. | 10.0 | 26 |
| 25 | A Microkinetic Model of Calcite Step Growth. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11086-11090. | 13.8 | 24 |
| 26 | Effects of common groundwater ions on the transformation and reactivity of sulfidized nanoscale zerovalent iron. <i>Chemosphere</i> , 2020, 249, 126137. | 8.2 | 24 |
| 27 | Competition between chloride and sulphate during the reformation of calcined hydrotalcite. <i>Applied Clay Science</i> , 2016, 132-133, 650-659. | 5.2 | 23 |
| 28 | Arsenic removal from natural groundwater using “green rust™”: Solid phase stability and contaminant fate. <i>Journal of Hazardous Materials</i> , 2021, 401, 123327. | 12.4 | 23 |
| 29 | Impact of Citrate Ions on the Nucleation and Growth of Anhydrous CaCO_3 . <i>Crystal Growth and Design</i> , 2017, 17, 5269-5275. | 3.0 | 22 |
| 30 | Sulfidation extent of nanoscale zerovalent iron controls selectivity and reactivity with mixed chlorinated hydrocarbons in natural groundwater. <i>Journal of Hazardous Materials</i> , 2022, 431, 128534. | 12.4 | 20 |
| 31 | A Microkinetic Model of Calcite Step Growth. <i>Angewandte Chemie</i> , 2016, 128, 11252-11256. | 2.0 | 18 |
| 32 | Can or cannot green rust reduce chlorinated ethenes?. <i>Energy Procedia</i> , 2018, 146, 173-178. | 1.8 | 16 |
| 33 | Mechanism of Saponite Crystallization from a Rapidly Formed Amorphous Intermediate. <i>Crystal Growth and Design</i> , 2020, 20, 3365-3373. | 3.0 | 16 |
| 34 | Enhanced sorption of perfluorooctane sulfonate and perfluorooctanoate by hydrotalcites. <i>Environmental Technology and Innovation</i> , 2021, 21, 101231. | 6.1 | 16 |
| 35 | Sorption of chlorinated hydrocarbons from synthetic and natural groundwater by organo-hydrotalcites: Towards their applications as remediation nanoparticles. <i>Chemosphere</i> , 2019, 236, 124369. | 8.2 | 13 |
| 36 | Immobilization of Cr(VI) by sulphate green rust and sulphidized nanoscale zerovalent iron in sand media: batch and column studies. <i>Geochemical Transactions</i> , 2020, 21, 8. | 0.7 | 13 |

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|----|---|-----|-----------|
| 37 | Mechanism of silica-lysozyme composite formation unravelled by in situ fast SAXS. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 182-197. | 2.8 | 12 |
| 38 | Extent of natural attenuation of chlorinated ethenes at a contaminated site in Denmark. <i>Energy Procedia</i> , 2018, 146, 188-193. | 1.8 | 11 |
| 39 | Formation of Silica-Lysozyme Composites Through Co-Precipitation and Adsorption. <i>Frontiers in Materials</i> , 2018, 5, . | 2.4 | 11 |
| 40 | Prebiotic RNA polymerisation: energetics of nucleotide adsorption and polymerisation on clay mineral surfaces. <i>Chemical Communications</i> , 2017, 53, 12700-12703. | 4.1 | 10 |
| 41 | Hematite Crystallization in the Presence of Organic Matter: Impact on Crystal Properties and Bacterial Dissolution. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 510-518. | 2.7 | 10 |
| 42 | Silica and Alumina Nanophases: Natural Processes and Industrial Applications. , 2017, , 293-316. | | 10 |
| 43 | How Short-Lived Ikaite Affects Calcite Crystallization. <i>Crystal Growth and Design</i> , 2017, 17, 6224-6230. | 3.0 | 9 |
| 44 | Effects of metal cation substitution on hexavalent chromium reduction by green rust. <i>Geochemical Transactions</i> , 2020, 21, 2. | 0.7 | 9 |
| 45 | Intercalation of aromatic sulfonates in "green rust"™ via ion exchange. <i>Energy Procedia</i> , 2018, 146, 179-187. | 1.8 | 8 |
| 46 | Fatty Acid Preservation in Modern and Relict Hot-Spring Deposits in Iceland, with Implications for Organics Detection on Mars. <i>Astrobiology</i> , 2021, 21, 60-82. | 3.0 | 8 |
| 47 | Siderite nucleation pathways as a function of aqueous solution saturation state at 25°C. <i>Chemical Geology</i> , 2021, 559, 119947. | 3.3 | 7 |
| 48 | Arsenic species delay structural ordering during green rust sulfate crystallization from ferrihydrite. <i>Environmental Science: Nano</i> , 2021, 8, 2950-2963. | 4.3 | 6 |
| 49 | Formation of Formaldehyde and Other Byproducts by TiO ₂ Photocatalyst Materials. <i>Sustainability</i> , 2021, 13, 4821. | 3.2 | 6 |
| 50 | Immobilization of nanoparticles by occlusion into microbial calcite. <i>Chemical Geology</i> , 2017, 453, 72-79. | 3.3 | 4 |
| 51 | Chlorinated solvent degradation in groundwater by green rust-bone char composite: solute interactions and chlorinated ethylene competition. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 2043-2053. | 2.4 | 4 |
| 52 | Order and Disorder in Layered Double Hydroxides: Lessons Learned from the Green Rust Sulfate "Nikischerite Series. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 322-332. | 2.7 | 3 |
| 53 | The metagenomics of biosilicification: causes and effects. <i>Mineralogical Magazine</i> , 2008, 72, 221-225. | 1.4 | 2 |
| 54 | The size and polydispersity of silica nanoparticles under simulated hot spring conditions. <i>Mineralogical Magazine</i> , 2008, 72, 287-290. | 1.4 | 2 |

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|----|--|------|-----------|
| 55 | Hydroxalite stability during long-term exposure to natural environmental conditions. <i>Environmental Science and Pollution Research</i> , 2020, 27, 23801-23811. | 5.3 | 2 |
| 56 | A density functional theory study of Fe(II)/Fe(III) distribution in single layer green rust: a cluster approach. <i>Geochemical Transactions</i> , 2021, 22, 3. | 0.7 | 2 |
| 57 | A novel, direct-push approach for detecting sulfidated nanoparticulate zero valent iron (S-nZVI) in sediments using reactive and non-reactive fluorophores. <i>Journal of Contaminant Hydrology</i> , 2021, 243, 103896. | 3.3 | 1 |
| 58 | Fine-tuning green rust-iron char composite synthesis for efficient chlorinated ethylene remediation. <i>Chemical Engineering Journal</i> , 2022, 446, 136770. | 12.7 | 1 |