

Dominique J Tobler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1692424/publications.pdf>

Version: 2024-02-01

58
papers

1,988
citations

257450

24
h-index

254184

43
g-index

58
all docs

58
docs citations

58
times ranked

2338
citing authors

#	ARTICLE	IF	CITATIONS
1	Order and Disorder in Layered Double Hydroxides: Lessons Learned from the Green Rust Sulfateâ€™Nikischerite Series. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 322-332.	2.7	3
2	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
3	Fine-tuning green rustâ€™bone char composite synthesis for efficient chlorinated ethylene remediation. <i>Chemical Engineering Journal</i> , 2022, 446, 136770.	12.7	1
4	Arsenic removal from natural groundwater using â€™green rustâ€™™: Solid phase stability and contaminant fate. <i>Journal of Hazardous Materials</i> , 2021, 401, 123327.	12.4	23
5	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
6	Enhanced sorption of perfluorooctane sulfonate and perfluorooctanoate by hydrotalcites. <i>Environmental Technology and Innovation</i> , 2021, 21, 101231.	6.1	16
7	Siderite nucleation pathways as a function of aqueous solution saturation state at 25â€™C. <i>Chemical Geology</i> , 2021, 559, 119947.	3.3	7
8	Chlorinated solvent degradation in groundwater by green rustâ€™bone char composite: solute interactions and chlorinated ethylene competition. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 2043-2053.	2.4	4
9	Arsenic species delay structural ordering during green rust sulfate crystallization from ferrihydrite. <i>Environmental Science: Nano</i> , 2021, 8, 2950-2963.	4.3	6
10	Formation of Formaldehyde and Other Byproducts by TiO2 Photocatalyst Materials. <i>Sustainability</i> , 2021, 13, 4821.	3.2	6
11	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
12	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
13	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
14	Bone Char Mediated Dechlorination of Trichloroethylene by Green Rust. <i>Environmental Science & Technology</i> , 2020, 54, 3643-3652.	10.0	44
15	Effects of metal cation substitution on hexavalent chromium reduction by green rust. <i>Geochemical Transactions</i> , 2020, 21, 2.	0.7	9
16	Direct Visualization of Arsenic Binding on Green Rust Sulfate. <i>Environmental Science & Technology</i> , 2020, 54, 3297-3305.	10.0	26
17	Effects of common groundwater ions on the transformation and reactivity of sulfidized nanoscale zerovalent iron. <i>Chemosphere</i> , 2020, 249, 126137.	8.2	24
18	Hydrotalcite stability during long-term exposure to natural environmental conditions. <i>Environmental Science and Pollution Research</i> , 2020, 27, 23801-23811.	5.3	2

#	ARTICLE	IF	CITATIONS
19	Mechanism of Saponite Crystallization from a Rapidly Formed Amorphous Intermediate. <i>Crystal Growth and Design</i> , 2020, 20, 3365-3373.	3.0	16
20	Sorption of chlorinated hydrocarbons from synthetic and natural groundwater by organo-hydroxalates: Towards their applications as remediation nanoparticles. <i>Chemosphere</i> , 2019, 236, 124369.	8.2	13
21	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
22	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
23	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
24	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
25	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
26	Can or cannot green rust reduce chlorinated ethenes?. <i>Energy Procedia</i> , 2018, 146, 173-178.	1.8	16
27	Intercalation of aromatic sulfonates in "green rust"™ via ion exchange. <i>Energy Procedia</i> , 2018, 146, 179-187.	1.8	8
28	Extent of natural attenuation of chlorinated ethenes at a contaminated site in Denmark. <i>Energy Procedia</i> , 2018, 146, 188-193.	1.8	11
29	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
30	Formation of Silica-Lysozyme Composites Through Co-Precipitation and Adsorption. <i>Frontiers in Materials</i> , 2018, 5, .	2.4	11
31	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
32	Immobilization of nanoparticles by occlusion into microbial calcite. <i>Chemical Geology</i> , 2017, 453, 72-79.	3.3	4
33	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
34	How Short-Lived Ikaite Affects Calcite Crystallization. <i>Crystal Growth and Design</i> , 2017, 17, 6224-6230.	3.0	9
35	Prebiotic RNA polymerisation: energetics of nucleotide adsorption and polymerisation on clay mineral surfaces. <i>Chemical Communications</i> , 2017, 53, 12700-12703.	4.1	10
36	Silica and Alumina Nanophases: Natural Processes and Industrial Applications. , 2017, , 293-316.		10

#	ARTICLE	IF	CITATIONS
37	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
38	Competition between chloride and sulphate during the reformation of calcined hydrotalcite. <i>Applied Clay Science</i> , 2016, 132-133, 650-659.	5.2	23
39	Effect of Aspartic Acid and Glycine on Calcite Growth. <i>Crystal Growth and Design</i> , 2016, 16, 4813-4821.	3.0	36
40	A Microkinetic Model of Calcite Step Growth. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11086-11090.	13.8	24
41	A Microkinetic Model of Calcite Step Growth. <i>Angewandte Chemie</i> , 2016, 128, 11252-11256.	2.0	18
42	Effect of pH on Amorphous Calcium Carbonate Structure and Transformation. <i>Crystal Growth and Design</i> , 2016, 16, 4500-4508.	3.0	76
43	Citrate Effects on Amorphous Calcium Carbonate (ACC) Structure, Stability, and Crystallization. <i>Advanced Functional Materials</i> , 2015, 25, 3081-3090.	14.9	84
44	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
45	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
46	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
47	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
48	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
49	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
50	Microbially mediated plugging of porous media and the impact of differing injection strategies. <i>Ecological Engineering</i> , 2012, 42, 270-278.	3.6	109
51	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
52	Bacterial diversity in five Icelandic geothermal waters: temperature and sinter growth rate effects. <i>Extremophiles</i> , 2011, 15, 473-485.	2.3	64
53	Community Structure of Subsurface Biofilms in the Thermal Sulfidic Caves of Acquasanta Terme, Italy. <i>Applied and Environmental Microbiology</i> , 2010, 76, 5902-5910.	3.1	72
54	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

#	ARTICLE	IF	CITATIONS
55	<i>In situ</i> grown silica sinters in Icelandic geothermal areas. <i>Geobiology</i> , 2008, 6, 481-502.	2.4	65
56	Controlled biomineralization of magnetite (Fe ₃ O ₄) by <i>Magnetospirillum gryphiswaldense</i> . <i>Mineralogical Magazine</i> , 2008, 72, 333-336.	1.4	28
57	The metagenomics of biosilicification: causes and effects. <i>Mineralogical Magazine</i> , 2008, 72, 221-225.	1.4	2
58	The size and polydispersity of silica nanoparticles under simulated hot spring conditions. <i>Mineralogical Magazine</i> , 2008, 72, 287-290.	1.4	2