

Liane G Benning

List of Publications by Year in descending order

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Version: 2024-02-01

190
papers

12,143
citations

22099

59
h-index

31759

101
g-index

206
all docs

206
docs citations

206
times ranked

13115
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic synthesis associated with serpentinization and carbonation on early Mars. <i>Science</i> , 2022, 375, 172-177.	6.0	32
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.	6.5	20
3	Seasonality of Glacial Snow and Ice Microbial Communities. <i>Frontiers in Microbiology</i> , 2022, 13, .	1.5	11
4	DNA/RNA Preservation in Glacial Snow and Ice Samples. <i>Frontiers in Microbiology</i> , 2022, 13, .	1.5	4
5	Arsenic removal from natural groundwater using "green rust": Solid phase stability and contaminant fate. <i>Journal of Hazardous Materials</i> , 2021, 401, 123327.	6.5	23
6	Arsenic species delay structural ordering during green rust sulfate crystallization from ferrihydrite. <i>Environmental Science: Nano</i> , 2021, 8, 2950-2963.	2.2	6
7	How allogenic factors affect succession in glacier forefields. <i>Earth-Science Reviews</i> , 2021, 218, 103642.	4.0	28
8	Biological albedo reduction on ice sheets, glaciers, and snowfields. <i>Earth-Science Reviews</i> , 2021, 220, 103728.	4.0	30
9	The Terrestrial Plasticsphere: Diversity and Polymer-Colonizing Potential of Plastic-Associated Microbial Communities in Soil. <i>Microorganisms</i> , 2021, 9, 1876.	1.6	28
10	Mineral phosphorus drives glacier algal blooms on the Greenland Ice Sheet. <i>Nature Communications</i> , 2021, 12, 570.	5.8	50
11	Time since deglaciation and geomorphological disturbances determine the patterns of geochemical, mineralogical and microbial successions in an Icelandic foreland. <i>Geoderma</i> , 2020, 379, 114578.	2.3	15
12	Investigating the Effectiveness of Phosphonate Additives in Hindering the Calcium Sulfate Dihydrate Scale Formation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 14970-14980.	1.8	11
13	Nucleation Pathway of Calcium Sulfate Hemihydrate (Bassanite) from Solution: Implications for Calcium Sulfates on Mars. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8411-8422.	1.5	28
14	Effects of metal cation substitution on hexavalent chromium reduction by green rust. <i>Geochemical Transactions</i> , 2020, 21, 2.	1.8	9
15	Direct Visualization of Arsenic Binding on Green Rust Sulfate. <i>Environmental Science & Technology</i> , 2020, 54, 3297-3305.	4.6	26
16	Glacier algae accelerate melt rates on the south-western Greenland Ice Sheet. <i>Cryosphere</i> , 2020, 14, 309-330.	1.5	78
17	Molecular identification of fungi microfossils in a Neoproterozoic shale rock. <i>Science Advances</i> , 2020, 6, eaax7599.	4.7	65
18	Surface roughness affects early stages of silica scale formation more strongly than chemical and structural properties of the substrate. <i>Geothermics</i> , 2020, 87, 101835.	1.5	6

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19	Mechanism of Saponite Crystallization from a Rapidly Formed Amorphous Intermediate. <i>Crystal Growth and Design</i> , 2020, 20, 3365-3373.	1.4	16
20	The interfacial reactivity of arsenic species with green rust sulfate (GRSO ₄). <i>Science of the Total Environment</i> , 2019, 648, 1161-1170.	3.9	40
21	Formation of diagenetic siderite in modern ferruginous sediments. <i>Geology</i> , 2019, 47, 540-544.	2.0	37
22	Calibration of the oxygen and clumped isotope thermometers for (proto-)dolomite based on synthetic and natural carbonates. <i>Chemical Geology</i> , 2019, 525, 1-17.	1.4	45
23	Particle-Mediated Nucleation Pathways Are Imprinted in the Internal Structure of Calcium Sulfate Single Crystals. <i>Crystal Growth and Design</i> , 2019, 19, 3714-3721.	1.4	33
24	Semi-Inverted Sample Preparation of Meteorites for High Resolution Analytical Electron Microscopy Using Correlative Raman Spectroscopy and Xe Plasma FIB. <i>Microscopy and Microanalysis</i> , 2019, 25, 894-895.	0.2	0
25	Struvite Crystallisation and the Effect of Co ²⁺ Ions. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 503.	0.8	10
26	The Biodiversity and Geochemistry of Cryoconite Holes in Queen Maud Land, East Antarctica. <i>Microorganisms</i> , 2019, 7, 160.	1.6	21
27	Enhancement of cyanobacterial growth by riverine particulate material. <i>Chemical Geology</i> , 2019, 525, 143-167.	1.4	5
28	The Structure of CaSO ₄ Nanorods: The Precursor of Gypsum. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23151-23158.	1.5	28
29	An aliphatic hexene-covalent triazine framework for selective acetylene/methane and ethylene/methane separation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13188-13196.	5.2	30
30	Adsorption and Reduction of Arsenate during the Fe ²⁺ -Induced Transformation of Ferrihydrite. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 884-894.	1.2	50
31	The potential science and engineering value of samples delivered to Earth by Mars sample return. <i>Meteoritics and Planetary Science</i> , 2019, 54, S3.	0.7	73
32	A template-free and low temperature method for the synthesis of mesoporous magnesium phosphate with uniform pore structure and high surface area. <i>Nanoscale</i> , 2019, 11, 6939-6951.	2.8	28
33	Experimental and simulation results of the adsorption of Mo and V onto ferrihydrite. <i>Scientific Reports</i> , 2019, 9, 1365.	1.6	21
34	Beam-induced oxidation of mixed-valent Fe (oxyhydr)oxides (green rust) monitored by STEM-EELS. <i>Micron</i> , 2019, 122, 46-52.	1.1	14
35	Structural transformation of sulfidized zerovalent iron and its impact on long-term reactivity. <i>Environmental Science: Nano</i> , 2019, 6, 3422-3430.	2.2	31
36	Effectiveness of Green Additives vs Poly(acrylic acid) in Inhibiting Calcium Sulfate Dihydrate Crystallization. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 1561-1569.	1.8	35

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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.	1.5	12
38	Evaluating amplicon high-throughput sequencing data of microalgae living in melting snow: improvements and limitations. <i>Fottea</i> , 2019, 19, 115-131.	0.4	19
39	Epitactic Overgrowths of Calcite (CaCO_3) on Anhydrite (CaSO_4) Cleavage Surfaces. <i>Crystal Growth and Design</i> , 2018, 18, 1666-1675.	1.4	10
40	Xyloglucan is released by plants and promotes soil particle aggregation. <i>New Phytologist</i> , 2018, 217, 1128-1136.	3.5	79
41	Distribution of soil nitrogen and nitrogenase activity in the forefield of a High Arctic receding glacier. <i>Annals of Glaciology</i> , 2018, 59, 87-94.	2.8	5
42	Linkages between geochemistry and microbiology in a proglacial terrain in the High Arctic. <i>Annals of Glaciology</i> , 2018, 59, 95-110.	2.8	11
43	Products of Hexavalent Chromium Reduction by Green Rust Sodium Sulfate and Associated Reaction Mechanisms. <i>Soil Systems</i> , 2018, 2, 58.	1.0	15
44	Intercalation of aromatic sulfonates in γ -green rust™ via ion exchange. <i>Energy Procedia</i> , 2018, 146, 179-187.	1.8	8
45	Metal Sequestration through Coupled Dissolution-Precipitation at the Brucite-Water Interface. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 346.	0.8	21
46	The Effect of Atmospheric Acid Processing on the Global Deposition of Bioavailable Phosphorus From Dust. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1367-1385.	1.9	21
47	Nanoparticle Assembly Leads to Mackinawite Formation. <i>Crystal Growth and Design</i> , 2018, 18, 6757-6764.	1.4	19
48	Organic synthesis on Mars by electrochemical reduction of CO_2 . <i>Science Advances</i> , 2018, 4, eaat5118.	4.7	61
49	Following the Kinetics of Barium Titanate Nanocrystal Formation in Benzyl Alcohol Under Near-Ambient Conditions. <i>Small</i> , 2018, 14, e1802003.	5.2	1
50	Calibration and application of silica-water triple oxygen isotope thermometry to geothermal systems in Iceland and Chile. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 234, 84-97.	1.6	25
51	Biolabile ferrous iron bearing nanoparticles in glacial sediments. <i>Earth and Planetary Science Letters</i> , 2018, 493, 92-101.	1.8	53
52	Formation of Silica-Lysozyme Composites Through Co-Precipitation and Adsorption. <i>Frontiers in Materials</i> , 2018, 5, .	1.2	11
53	On demand-triggered crystallization of CaCO_3 from solute precursor species stabilized by the water-in-oil microemulsion. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13825-13835.	1.3	24
54	A highly reactive precursor in the iron-sulfide system. <i>Nature Communications</i> , 2018, 9, 3125.	5.8	95

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55	Understanding amorphous silica scaling under well-constrained conditions inside geothermal pipelines. <i>Geothermics</i> , 2018, 76, 231-241.	1.5	31
56	Metagenomic insights into diazotrophic communities across Arctic glacier forefields. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	1.3	36
57	The diversity of ice algal communities on the Greenland Ice Sheet as revealed by oligotyping. <i>Microbial Genomics</i> , 2018, 4, .	1.0	39
58	Ice sheets as a missing source of silica to the polar oceans. <i>Nature Communications</i> , 2017, 8, 14198.	5.8	122
59	Comments on "Influence of measurement uncertainties on fractional solubility of iron in mineral aerosols over the oceans" <i>™ Aeolian Research</i> 22, 85-92. <i>Aeolian Research</i> , 2017, 25, 123-125.	1.1	7
60	The microbiome of glaciers and ice sheets. <i>Npj Biofilms and Microbiomes</i> , 2017, 3, 10.	2.9	215
61	The Effects of Inorganic Additives on the Nucleation and Growth Kinetics of Calcium Sulfate Dihydrate Crystals. <i>Crystal Growth and Design</i> , 2017, 17, 582-589.	1.4	60
62	Pollution from the 2014-15 Bárðarbunga eruption monitored by snow cores from the Vatnajökull glacier, Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 347, 371-396.	0.8	6
63	Reaction pathways and textural aspects of the replacement of anhydrite by calcite at 25 °C. <i>American Mineralogist</i> , 2017, 102, 1270-1278.	0.9	16
64	How Short-Lived Ikaite Affects Calcite Crystallization. <i>Crystal Growth and Design</i> , 2017, 17, 6224-6230.	1.4	9
65	Linking microbial diversity and functionality of arctic glacial surface habitats. <i>Environmental Microbiology</i> , 2017, 19, 551-565.	1.8	84
66	Physicochemical and Additive Controls on the Multistep Precipitation Pathway of Gypsum. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 140.	0.8	27
67	Calcium Sulfate Precipitation Throughout Its Phase Diagram. , 2017, , 227-256.		36
68	Silica and Alumina Nanophases: Natural Processes and Industrial Applications. , 2017, , 293-316.		10
69	ACC and Vaterite as Intermediates in the Solution-Based Crystallization of CaCO ₃ . , 2017, , 93-111.		30
70	Potentially bioavailable iron delivery by iceberg-hosted sediments and atmospheric dust to the polar oceans. <i>Biogeosciences</i> , 2016, 13, 3887-3900.	1.3	65
71	Microbial dynamics in a High Arctic glacier forefield: a combined field, laboratory, and modelling approach. <i>Biogeosciences</i> , 2016, 13, 5677-5696.	1.3	36
72	Aerobiology Over Antarctica " A New Initiative for Atmospheric Ecology. <i>Frontiers in Microbiology</i> , 2016, 7, 16.	1.5	65

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73	Understanding the nature of atmospheric acid processing of mineral dusts in supplying bioavailable phosphorus to the oceans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14639-14644.	3.3	68
74	Not just fractal surfaces, but surface fractal aggregates: Derivation of the expression for the structure factor and its applications. <i>Journal of Chemical Physics</i> , 2016, 145, 211908.	1.2	43
75	Structural Fe(II) Oxidation in Biotite by an Ectomycorrhizal Fungi Drives Mechanical Forcing. <i>Environmental Science & Technology</i> , 2016, 50, 5589-5596.	4.6	52
76	Formation of calcium sulfate through the aggregation of sub-30-nanometre primary species. <i>Nature Communications</i> , 2016, 7, 11177.	5.8	134
77	The biogeography of red snow microbiomes and their role in melting arctic glaciers. <i>Nature Communications</i> , 2016, 7, 11968.	5.8	171
78	An experimental study of hydroxylbastnasite solubility in aqueous solutions at 25 °C. <i>Chemical Geology</i> , 2016, 430, 70-77.	1.4	20
79	Oxalate secretion by ectomycorrhizal <i>Paxillus involutus</i> is mineral-specific and controls calcium weathering from minerals. <i>Scientific Reports</i> , 2015, 5, 12187.	1.6	72
80	Impact of the Diamond Light Source on research in Earth and environmental sciences: current work and future perspectives. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20130151.	1.6	9
81	Microbial diversity on Icelandic glaciers and ice caps. <i>Frontiers in Microbiology</i> , 2015, 6, 307.	1.5	88
82	Integrated "Omics"™, Targeted Metabolite and Single-cell Analyses of Arctic Snow Algae Functionality and Adaptability. <i>Frontiers in Microbiology</i> , 2015, 6, 1323.	1.5	59
83	Biominalisation by earthworms " an investigation into the stability and distribution of amorphous calcium carbonate. <i>Geochemical Transactions</i> , 2015, 16, 4.	1.8	36
84	Atmospheric Processing Outside Clouds Increases Soluble Iron in Mineral Dust. <i>Environmental Science & Technology</i> , 2015, 49, 1472-1477.	4.6	68
85	A route for the direct crystallization of dolomite. <i>American Mineralogist</i> , 2015, 100, 1172-1181.	0.9	113
86	The effect of pH, grain size, and organic ligands on biotite weathering rates. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 164, 127-145.	1.6	86
87	The role of amorphous precursors in the crystallization of La and Nd carbonates. <i>Nanoscale</i> , 2015, 7, 12166-12179.	2.8	36
88	Effect of Mo and V on the Hydrothermal Crystallization of Hematite from Ferrihydrite: An <i>in Situ</i> Energy Dispersive X-ray Diffraction and X-ray Absorption Spectroscopy Study. <i>Crystal Growth and Design</i> , 2015, 15, 4768-4780.	1.4	38
89	The efficient long-term inhibition of forsterite dissolution by common soil bacteria and fungi at Earth surface conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 168, 222-235.	1.6	38
90	6. Analytical Transmission Electron Microscopy. , 2014, , 219-270.		1

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91	The effect of heating on the morphology of crystalline neodymium hydroxycarbonate, NdCO ₃ OH. Mineralogical Magazine, 2014, 78, 1391-1397.	0.6	10
92	The role of REE ³⁺ in the crystallization of lanthanites. Mineralogical Magazine, 2014, 78, 1373-1380.	0.6	14
93	Biological impact on Greenland's albedo. Nature Geoscience, 2014, 7, 691-691.	5.4	51
94	Enhanced magnetic coercivity of γ -Fe ₂ O ₃ obtained from carbonated 2-line ferrihydrite. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	43
95	Analytical Transmission Electron Microscopy. Reviews in Mineralogy and Geochemistry, 2014, 78, 219-269.	2.2	17
96	Biotite surface chemistry as a function of aqueous fluid composition. Geochimica Et Cosmochimica Acta, 2014, 128, 58-70.	1.6	35
97	Bacterially mediated removal of phosphorus and cycling of nitrate and sulfate in the waste stream of a "zero-discharge" recirculating mariculture system. Water Research, 2014, 56, 109-121.	5.3	27
98	Ice sheets as a significant source of highly reactive nanoparticulate iron to the oceans. Nature Communications, 2014, 5, 3929.	5.8	208
99	Report of the workshop for life detection in samples from Mars. Life Sciences in Space Research, 2014, 2, 1-5.	1.2	24
100	The role of Mg in the crystallization of monohydrocalcite. Geochimica Et Cosmochimica Acta, 2014, 127, 204-220.	1.6	121
101	Variations of algal communities cause darkening of a Greenland glacier. FEMS Microbiology Ecology, 2014, 89, 402-414.	1.3	108
102	Selenium Speciation in Framboidal and Euhedral Pyrites in Shales. Environmental Science & Technology, 2014, 48, 8972-8979.	4.6	15
103	Neutron and X-ray diffraction and empirical potential structure refinement modelling of magnesium stabilised amorphous calcium carbonate. Journal of Non-Crystalline Solids, 2014, 401, 154-158.	1.5	30
104	Quantifying water diffusion in high-viscosity and glassy aqueous solutions using a Raman isotope tracer method. Atmospheric Chemistry and Physics, 2014, 14, 3817-3830.	1.9	97
105	Carboxylic acids: effective inhibitors for calcium sulfate precipitation?. Mineralogical Magazine, 2014, 78, 1465-1472.	0.6	55
106	Microstructural and chemical variation in silica-rich precipitates at the Hellisheii geothermal power plant. Mineralogical Magazine, 2014, 78, 1381-1389.	0.6	18
107	The effect and role of environmental conditions on magnetosome synthesis. Frontiers in Microbiology, 2014, 5, 49.	1.5	58
108	Control of Crystal Nucleation and Growth by Additives. Elements, 2013, 9, 203-209.	0.5	40

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109	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.	1.6	50
110	Amorphous dysprosium carbonate: characterization, stability, and crystallization pathways. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	27
111	Partitioning of Pb(II) during goethite and hematite crystallization: Implications for Pb transport in natural systems. <i>Applied Geochemistry</i> , 2013, 39, 119-128.	1.4	51
112	Elucidating Mechanisms of Diffusion-Based Calcium Carbonate Synthesis Leads to Controlled Mesocrystal Formation. <i>Advanced Functional Materials</i> , 2013, 23, 1965-1973.	7.8	114
113	SAXS in Inorganic and Bioinspired Research. <i>Methods in Enzymology</i> , 2013, 532, 95-127.	0.4	12
114	Green rust formation controls nutrient availability in a ferruginous water column. <i>Geology</i> , 2012, 40, 599-602.	2.0	159
115	Aragonite growth in water-alcohol mixtures: Classical or nonclassical crystallization?. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1419, 7.	0.1	2
116	Graphite in the martian meteorite Allan Hills 84001. <i>American Mineralogist</i> , 2012, 97, 1256-1259.	0.9	68
117	The Role and Implications of Bassanite as a Stable Precursor Phase to Gypsum Precipitation. <i>Science</i> , 2012, 336, 69-72.	6.0	294
118	Mechanistic Insights into the Crystallization of Amorphous Calcium Carbonate (ACC). <i>Crystal Growth and Design</i> , 2012, 12, 3806-3814.	1.4	325
119	Plant-driven weathering of apatite – the role of an ectomycorrhizal fungus. <i>Geobiology</i> , 2012, 10, 445-456.	1.1	96
120	Impacts on iron solubility in the mineral dust by processes in the source region and the atmosphere: A review. <i>Aeolian Research</i> , 2012, 5, 21-42.	1.1	228
121	Structural properties and transformations of precipitated FeS. <i>Chemical Geology</i> , 2012, 294-295, 249-258.	1.4	90
122	The role of pH and Mg on the stability and crystallization of amorphous calcium carbonate. <i>Journal of Alloys and Compounds</i> , 2012, 536, S477-S479.	2.8	166
123	Crystallization of CaCO ₃ in Water-Alcohol Mixtures: Spherulitic Growth, Polymorph Stabilization, and Morphology Change. <i>Crystal Growth and Design</i> , 2012, 12, 842-853.	1.4	176
124	Influence of chemical weathering and aging of iron oxides on the potential iron solubility of Saharan dust during simulated atmospheric processing. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	1.9	90
125	The kinetics and mechanisms of amorphous calcium carbonate (ACC) crystallization to calcite, viavaterite.. <i>Nanoscale</i> , 2011, 3, 265-271.	2.8	742
126	What controls selenium release during shale weathering?. <i>Applied Geochemistry</i> , 2011, 26, S222-S226.	1.4	22

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127	Tree-mycorrhiza symbiosis accelerate mineral weathering: Evidences from nanometer-scale elemental fluxes at the hypha-mineral interface. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6988-7005.	1.6	110
128	Iron Uptake Kinetics and Magnetosome Formation by <i>Magnetospirillum gryphiswaldense</i> as a Function of pH, Temperature and Dissolved Iron Availability. <i>Geomicrobiology Journal</i> , 2011, 28, 590-600.	1.0	18
129	Minor effect of physical size sorting on iron solubility of transported mineral dust. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8459-8469.	1.9	44
130	Iron dissolution kinetics of mineral dust at low pH during simulated atmospheric processing. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 995-1007.	1.9	122
131	The direct precipitation of rhabdophane (REEPO ₄ ·nH ₂ O) nano-rods from acidic aqueous solutions at 5-100°C. <i>Journal of Nanoparticle Research</i> , 2011, 13, 4049-4062.	0.8	38
132	Bacterial diversity in five Icelandic geothermal waters: temperature and sinter growth rate effects. <i>Extremophiles</i> , 2011, 15, 473-485.	0.9	64
133	Raman spectroscopic analysis of arctic nodules: relevance to the astrobiological exploration of Mars. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 2927-2933.	1.9	10
134	The role of SO ₄ in the switch from calcite to aragonite seas. <i>Geology</i> , 2011, 39, 331-334.	2.0	95
135	Cell division in magnetotactic bacteria splits magnetosome chain in half. <i>Journal of Basic Microbiology</i> , 2010, 50, 392-396.	1.8	28
136	Crystallization of Hematite (±Fe ₂ O ₃) under Alkaline Condition: The Effects of Pb. <i>Crystal Growth and Design</i> , 2010, 10, 1544-1551.	1.4	47
137	Formation of Green Rust Sulfate: A Combined in Situ Time-Resolved X-ray Scattering and Electrochemical Study. <i>Langmuir</i> , 2010, 26, 6593-6603.	1.6	66
138	The determination of labile Fe in ferrihydrite by ascorbic acid extraction: Methodology, dissolution kinetics and loss of solubility with age and de-watering. <i>Chemical Geology</i> , 2010, 278, 70-79.	1.4	98
139	Cadmium tolerance and adsorption by the marine brown alga <i>Fucus vesiculosus</i> from the Irish Sea and the Bothnian Sea. <i>Bioresource Technology</i> , 2009, 100, 1727-1733.	4.8	60
140	The fungal-mineral interface: challenges and considerations of micro-analytical developments. <i>Fungal Biology Reviews</i> , 2009, 23, 122-131.	1.9	41
141	A Field-Based Cleaning Protocol for Sampling Devices Used in Life-Detection Studies. <i>Astrobiology</i> , 2009, 9, 455-465.	1.5	17
142	Formation of Iron Nanoparticles and Increase in Iron Reactivity in Mineral Dust during Simulated Cloud Processing. <i>Environmental Science & Technology</i> , 2009, 43, 6592-6596.	4.6	140
143	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.	1.6	135
144	Plant-driven fungal weathering: Early stages of mineral alteration at the nanometer scale. <i>Geology</i> , 2009, 37, 615-618.	2.0	180

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145	Sample acquisition and caching using detachable scoops for mars sample return. , 2009, , .		11
146	Precipitation of Iron and Aluminum Phosphates Directly from Aqueous Solution as a Function of Temperature from 50 to 200 Å°C. Crystal Growth and Design, 2009, 9, 5197-5205.	1.4	55
147	Schwertmannite in wet, acid, and oxic microenvironments beneath polar and polythermal glaciers. Geology, 2009, 37, 431-434.	2.0	46
148	Speciation, phase association and potential bioavailability of phosphorus on a Svalbard glacier. Biogeochemistry, 2008, 90, 1-13.	1.7	52
149	Bioavailable iron in the Southern Ocean: the significance of the iceberg conveyor belt. Geochemical Transactions, 2008, 9, 7.	1.8	194
150	<i>in situ</i> grown silica sinters in Icelandic geothermal areas. Geobiology, 2008, 6, 481-502.	1.1	65
151	Microbial primary production on an Arctic glacier is insignificant in comparison with allochthonous organic carbon input. Environmental Microbiology, 2008, 10, 2172-2178.	1.8	119
152	The kinetics and mechanisms of schwertmannite transformation to goethite and hematite under alkaline conditions. American Mineralogist, 2008, 93, 1326-1337.	0.9	75
153	Nucleation, Growth, and Aggregation of Mineral Phases: Mechanisms and Kinetic Controls. , 2008, , 259-333.		29
154	Formation of hydroxysulphate and hydroxycarbonate green rusts in the presence of zinc using time-resolved <i>in situ</i> small and wide angle X-ray scattering. Mineralogical Magazine, 2008, 72, 159-162.	0.6	14
155	Green rust as a precursor for magnetite: an <i>in situ</i> synchrotron based study. Mineralogical Magazine, 2008, 72, 201-204.	0.6	63
156	Anaerobic pyrite oxidation rates determined via direct volume-loss measurements: a Vertical Scanning Interferometric approach. Mineralogical Magazine, 2008, 72, 15-18.	0.6	4
157	Controlled biomineralization of magnetite (Fe ₃ O ₄) by <i>Magnetospirillum gryphiswaldense</i> . Mineralogical Magazine, 2008, 72, 333-336.	0.6	28
158	Nanoparticulate bioavailable iron minerals in icebergs and glaciers. Mineralogical Magazine, 2008, 72, 345-348.	0.6	33
159	Spectrophotometric determination of low-level concentrations of Se in aqueous solutions. Mineralogical Magazine, 2008, 72, 451-454.	0.6	10
160	Transformation of ferrihydrite to hematite: an <i>in situ</i> investigation on the kinetics and mechanisms. Mineralogical Magazine, 2008, 72, 217-220.	0.6	22
161	The metagenomics of biosilicification: causes and effects. Mineralogical Magazine, 2008, 72, 221-225.	0.6	2
162	Calcite crystal growth orientation: implications for trace metal uptake into coccoliths. Mineralogical Magazine, 2008, 72, 269-272.	0.6	10

#	ARTICLE	IF	CITATIONS
163	How to make Fe^{2+} -stable ACC: protocol and preliminary structural characterization. <i>Mineralogical Magazine</i> , 2008, 72, 283-286.	0.6	77
164	The size and polydispersity of silica nanoparticles under simulated hot spring conditions. <i>Mineralogical Magazine</i> , 2008, 72, 287-290.	0.6	2
165	Adsorption studies of Mo and V onto ferrihydrite. <i>Mineralogical Magazine</i> , 2008, 72, 385-388.	0.6	49
166	Greigite: a true intermediate on the polysulfide pathway to pyrite. <i>Geochemical Transactions</i> , 2007, 8, 1.	1.8	215
167	Raman and SEM analysis of a biocolonised hot spring travertine terrace in Svalbard, Norway. <i>Geochemical Transactions</i> , 2007, 8, 8.	1.8	26
168	The rate of ferrihydrite transformation to goethite via the Fe(II) pathway. <i>American Mineralogist</i> , 2006, 91, 92-96.	0.9	156
169	Contributions from glacially derived sediment to the global iron (oxyhydr)oxide cycle: Implications for iron delivery to the oceans. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2765-2780.	1.6	216
170	Composition and implications of diverse lipids in New Zealand Geothermal sinters. <i>Geobiology</i> , 2006, 4, 71-92.	1.1	61
171	Raman spectroscopic and scanning electron microscopic analysis of a novel biological colonisation of volcanic rocks. <i>Icarus</i> , 2006, 184, 158-169.	1.1	47
172	Evolution of fluid chemistry during travertine formation in the Troll thermal springs, Svalbard, Norway. <i>Geofluids</i> , 2005, 5, 140-150.	0.3	28
173	Lipid biomolecules in silica sinters: indicators of microbial biodiversity. <i>Environmental Microbiology</i> , 2005, 7, 66-77.	1.8	56
174	Impact of atmospheric deposition on N and P geochemistry in the southeastern Levantine basin. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2005, 52, 3041-3053.	0.6	69
175	Characterization of Metal-Cyanobacteria Sorption Reactions: A Combined Macroscopic and Infrared Spectroscopic Investigation. <i>Environmental Science & Technology</i> , 2004, 38, 775-782.	4.6	347
176	The dynamics of cyanobacterial silicification: an infrared micro-spectroscopic investigation. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 743-757.	1.6	124
177	Molecular characterization of cyanobacterial silicification using synchrotron infrared micro-spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 729-741.	1.6	156
178	Progress on yttria-stabilized zirconia sensors for hydrothermal pH measurements. <i>Chemical Geology</i> , 2003, 198, 141-162.	1.4	47
179	The effect of cyanobacteria on silica precipitation at neutral pH: implications for bacterial silicification in geothermal hot springs. <i>Chemical Geology</i> , 2003, 199, 83-90.	1.4	150
180	Reaction path modelling in the As-S system: a case study for geothermal As transport. <i>Applied Geochemistry</i> , 2003, 18, 1325-1345.	1.4	29

#	ARTICLE	IF	CITATIONS
181	Experimental studies on New Zealand hot spring sinters: rates of growth and textural development. Canadian Journal of Earth Sciences, 2003, 40, 1643-1667.	0.6	121
182	Quantitative evaluation of general corrosion of Type 304 stainless steel in subcritical and supercritical aqueous solutions via electrochemical noise analysis. Corrosion Science, 2002, 44, 841-860.	3.0	53
183	Solubility and stability of zeolites in aqueous solution: II. Calcic clinoptilolite and mordenite. American Mineralogist, 2000, 85, 495-508.	0.9	30
184	Reaction pathways in the Fe-S system below 100°C. Chemical Geology, 2000, 167, 25-51.	1.4	360
185	In situ time-resolved X-ray diffraction of iron sulfides during hydrothermal pyrite growth. Chemical Geology, 2000, 167, 53-63.	1.4	41
186	In situ Determination of the Stability of Iron Monosulphides and Kinetics of Pyrite Formation. Mineralogical Magazine, 1998, 62A, 151-152.	0.6	9
187	Hydrosulphide complexing of Au (I) in hydrothermal solutions from 150-400°C and 500-1500 bar. Geochimica Et Cosmochimica Acta, 1996, 60, 1849-1871.	1.6	300
188	Hydrosulphide Complexes of Gold (I) at High Pressures and Temperatures: Equilibrium and Kinetic Problems. Mineralogical Magazine, 1994, 58A, 75-76.	0.6	8
189	Biosilicification: the role of cyanobacteria in silica sinter deposition. , 0, , 131-150.		18
190	Greenland Ice Sheet Surfaces Colonized by Microbial Communities Emit Volatile Organic Compounds. Frontiers in Microbiology, 0, 13, .	1.5	1