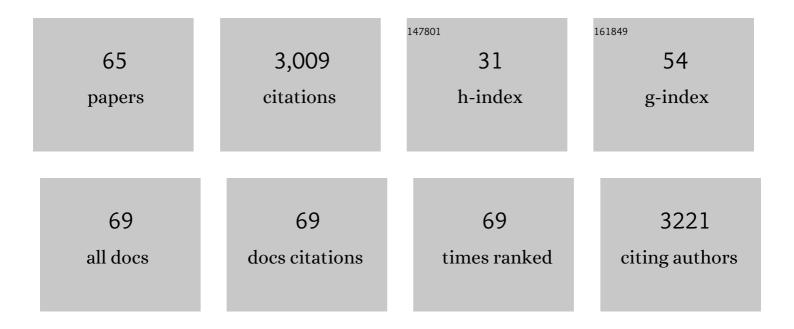
Maria Dittrich

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Examining the Ability of Aerobic Halophilic Heterotrophic Microbial Consortia to Replace Ca by Mg in Different CaCO3 Precursors. Frontiers in Microbiology, 2022, 13, 791286.	3.5	2
2	Utility of far-field effects from tip-assisted Raman spectroscopy for the detection of a monolayer of diblock copolymer reverse micelles for nanolithography. Physical Chemistry Chemical Physics, 2021, 23, 11065-11074.	2.8	3
3	Modern dolomite formation caused by seasonal cycling of oxygenic phototrophs and anoxygenic phototrophs in a hypersaline sabkha. Scientific Reports, 2021, 11, 4170.	3.3	30
4	Dolomite genesis in bioturbated marine zones of an early-middle Miocene coastal mud volcano outcrop (Kuwait). Scientific Reports, 2021, 11, 6636.	3.3	6
5	Environmentally friendly antibiofilm strategy based on cationized phytoglycogen nanoparticles. Colloids and Surfaces B: Biointerfaces, 2021, 207, 111975.	5.0	1
6	Attachment on mortar surfaces by cyanobacterium <i>Gloeocapsa</i> PCC 73106 and sequestration of CO ₂ by microbially induced calcium carbonate. MicrobiologyOpen, 2021, 10, e1243.	3.0	5
7	Systematic laboratory approach to produce Mg-rich carbonates at low temperature. RSC Advances, 2021, 11, 37029-37039.	3.6	8
8	Geochemical controls on internal phosphorus loading in Lake of the Woods. Chemical Geology, 2020, 558, 119873.	3.3	16
9	Speciation and bioavailability of particulate phosphorus in forested karst watersheds of southern Ontario during rain events. Journal of Great Lakes Research, 2020, 46, 824-838.	1.9	8
10	Scientists' Warning to Humanity: Rapid degradation of the world's large lakes. Journal of Great Lakes Research, 2020, 46, 686-702.	1.9	140
11	Organomineralization of proto-dolomite by a phototrophic microbial mat extracellular polymeric substances: Control of crystal size and its implication for carbonate depositional systems. Numerische Mathematik, 2020, 320, 72-95.	1.4	6
12	The role of chitin-rich skeletal organic matrix on the crystallization of calcium carbonate in the crustose coralline alga Leptophytum foecundum. Scientific Reports, 2019, 9, 11869.	3.3	28
13	Proto-dolomite formation in microbial consortia dominated by Halomonas strains. Extremophiles, 2019, 23, 765-781.	2.3	9
14	Characterization of the extracellular polymeric substances (EPS) of Virgibacillus strains capable of mediating the formation of high Mg-calcite and protodolomite. Marine Chemistry, 2019, 216, 103693.	2.3	31
15	Reduction of industrial iron pollution promotes phosphorus internal loading in eutrophic Hamilton Harbour, Lake Ontario, Canada. Environmental Pollution, 2019, 252, 697-705.	7.5	11
16	Biogeochemical mechanisms controlling phosphorus diagenesis and internal loading in a remediated hard water eutrophic embayment. Chemical Geology, 2019, 514, 122-137.	3.3	52
17	Picoplankton accumulate and recycle polyphosphate to support high primary productivity in coastal Lake Ontario. Scientific Reports, 2019, 9, 19563.	3.3	16
18	Dynamic polyphosphate metabolism in cyanobacteria responding to phosphorus availability. Environmental Microbiology, 2019, 21, 572-583.	3.8	38

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19	Microbial community composition and dolomite formation in the hypersaline microbial mats of the Khor Al-Adaid sabkhas, Qatar. Extremophiles, 2019, 23, 201-218.	2.3	37
20	Effects of Phosphorus in Growth Media on Biomineralization and Cell Surface Properties of Marine Cyanobacteria Synechococcus. Geosciences (Switzerland), 2018, 8, 471.	2.2	15
21	Phosphorus retention and internal loading in the Bay of Quinte, Lake Ontario, using diagenetic modelling. Science of the Total Environment, 2018, 636, 39-51.	8.0	30
22	Assessment of cyanobacterial species for carbonate precipitation on mortar surface under different conditions. Ecological Engineering, 2018, 120, 154-163.	3.6	31
23	Calcification on mortar by live and UV-killed biofilm-forming cyanobacterial Gloeocapsa PCC73106. Construction and Building Materials, 2017, 146, 43-53.	7.2	15
24	Microbial Mats from the Khor Al-Adaid Sabkha, Qatar: Morphotypes and Association with Authigenic Minerals. , 2016, , .		1
25	Carbonate Precipitation through Microbial Activities in Natural Environment, and Their Potential in Biotechnology: A Review. Frontiers in Bioengineering and Biotechnology, 2016, 4, 4.	4.1	411
26	Internal loading of phosphorus in western Lake Erie. Journal of Great Lakes Research, 2016, 42, 775-788.	1.9	92
27	Integration of best management practices in the Bay of Quinte watershed with the phosphorus dynamics in the receiving waterbody: What do the models predict?. Aquatic Ecosystem Health and Management, 2016, 19, 1-18.	0.6	22
28	Evidence for the biogenic origin of manganeseâ€enriched layers in Lake Superior sediments. Environmental Microbiology Reports, 2016, 8, 179-186.	2.4	7
29	Modeling the interplay between deepwater oxygen dynamics and sediment diagenesis in a hard-water mesotrophic lake. Ecological Informatics, 2016, 31, 59-69.	5.2	9
30	Examination of the role of dreissenids and macrophytes in the phosphorus dynamics of Lake Simcoe, Ontario, Canada. Ecological Informatics, 2015, 26, 36-53.	5.2	17
31	Potential application of biomineralization by Synechococcus PCC8806 for concrete restoration. Ecological Engineering, 2015, 82, 459-468.	3.6	64
32	Geomicrobiology of Iron Layers in the Sediment of Lake Superior. Aquatic Geochemistry, 2015, 21, 123-140.	1.3	8
33	Evidence of microbiocoenosis in the formation of laminae in modern stromatolites. Facies, 2014, 60, 3-13.	1.4	25
34	2D Raman spectroscopy study of dolomite and cyanobacterial extracellular polymeric substances from Khor Alâ€Adaid sabkha (Qatar). Journal of Raman Spectroscopy, 2013, 44, 1563-1569.	2.5	35
35	Modeling of decadal scale phosphorus retention in lake sediment under varying redox conditions. Ecological Modelling, 2013, 251, 246-259.	2.5	57
36	Phosphorus retention in a mesotrophic lake under transient loading conditions: Insights from a sediment phosphorus binding form study. Water Research, 2013, 47, 1433-1447.	11.3	75

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37	CaCO3 biomineralization on cyanobacterial surfaces: Insights from experiments with three Synechococcus strains. Colloids and Surfaces B: Biointerfaces, 2013, 111, 600-608.	5.0	32
38	Improving the representation of internal nutrient recycling with phosphorus mass balance models: A case study in the Bay of Quinte, Ontario, Canada. Ecological Modelling, 2013, 256, 53-68.	2.5	45
39	Dynamics of P-binding forms in sediments of a mesotrophic hard-water lake: Insights from non-steady state reactive-transport modeling, sensitivity and identifiability analysis. Chemical Geology, 2013, 354, 216-232.	3.3	23
40	Can simple phosphorus mass balance models guide management decisions? A case study in the Bay of Quinte, Ontario, Canada. Ecological Modelling, 2013, 257, 66-79.	2.5	21
41	Fourier Transform Infrared Spectroscopy for Molecular Analysis of Microbial Cells. Methods in Molecular Biology, 2012, 881, 187-211.	0.9	60
42	Continuous Bayesian Network for Studying the Causal Links between Phosphorus Loading and Plankton Patterns in Lake Simcoe, Ontario, Canada. Environmental Science & Technology, 2012, 46, 7283-7292.	10.0	27
43	Silicon: The key element in early stages of biocalcification. Journal of Structural Biology, 2011, 174, 180-186.	2.8	38
44	Lake restoration by hypolimnetic Ca(OH)2 treatment: Impact on phosphorus sedimentation and release from sediment. Science of the Total Environment, 2011, 409, 1504-1515.	8.0	70
45	Calcium carbonate precipitation by cyanobacterial polysaccharides. Geological Society Special Publication, 2010, 336, 51-63.	1.3	56
46	Lake Malawi sediment and pore water chemistry: Proposition of a conceptual model for stratification intensification since the end of the Little Ice Age. Global and Planetary Change, 2010, 72, 321-330.	3.5	9
47	Lake sediments during the transient eutrophication period: Reactive-transport model and identifiability study. Ecological Modelling, 2009, 220, 2751-2769.	2.5	32
48	CaCO ₃ nucleation by cyanobacteria: laboratory evidence for a passive, surfaceâ€induced mechanism. Geobiology, 2009, 7, 324-347.	2.4	101
49	Microorganisms, mineral surfaces, and aquatic environments: Learning from the past for future progress. Geobiology, 2008, 6, 201-213.	2.4	12
50	Aerobic microbial dolomite at the nanometer scale: Implications for the geologic record. Geology, 2008, 36, 879.	4.4	213
51	Atomic force microscope (AFM) combined with the ultramicrotome: a novel device for the serial section tomography and AFM/TEM complementary structural analysis of biological and polymer samples. Journal of Microscopy, 2007, 226, 207-216.	1.8	66
52	Calcium adsorption and changes of the surface microtopography of cyanobacteria studied by AFM, CFM, and TEM with respect to biogenic calcite nucleation. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	30
53	Influence of H+ and Calcium Ions on Surface Functional Groups of Synechococcus PCC 7942 Cells. Langmuir, 2006, 22, 5435-5442.	3.5	35
54	Cell surface groups of two picocyanobacteria strains studied by zeta potential investigations, potentiometric titration, and infrared spectroscopy. Journal of Colloid and Interface Science, 2005, 286, 487-495.	9.4	156

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55	Living under an atomic force microscope. An optimized approach for in vivo investigations on surface alterations towards biomineral nucleation on cyanobacterial cells. Geobiology, 2005, 3, 179-193.	2.4	12
56	TEM-specimen preparation of cell/mineral interfaces by Focused Ion Beam milling. American Mineralogist, 2005, 90, 1270-1277.	1.9	61
57	The Role of Autotrophic Picocyanobacteria in Calcite Precipitation in an Oligotrophic Lake. Geomicrobiology Journal, 2004, 21, 45-53.	2.0	95
58	Are Picoplankton Responsible for Calcite Precipitation in Lakes?. Ambio, 2004, 33, 559-564.	5.5	125
59	New organic matter degradation proxies: Valid in lake systems?. Limnology and Oceanography, 2004, 49, 2023-2033.	3.1	39
60	Induced Calcite Precipitation by CyanobacteriumSynechococcus. Clean - Soil, Air, Water, 2003, 31, 162-169.	0.6	65
61	Influence of organic carbon decomposition on calcite dissolution in surficial sediments of a freshwater lake. Water Research, 2003, 37, 4524-4532.	11.3	46
62	Title is missing!. Hydrobiologia, 2002, 469, 49-57.	2.0	57
63	Calcite dissolution in two deep eutrophic lakes. Geochimica Et Cosmochimica Acta, 1999, 63, 3349-3356.	3.9	39
64	Use of GC and equilibrium calculations of CO 2 saturation index to indicate whether freshwater bodies in north-eastern Germany are net sources or sinks for atmospheric CO 2. Fresenius' Journal of Analytical Chemistry, 1998, 361, 47-53.	1.5	42
65	A balance analysis of phosphorus elimination by artificial calcite precipitation in a stratified hardwater lake. Water Research, 1997, 31, 237-248.	11.3	41