

Markus Bill

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

3,433
citations

236925

25
h-index

175258

52
g-index

65
all docs

65
docs citations

65
times ranked

4210
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep-Sea Oil Plume Enriches Indigenous Oil-Degrading Bacteria. <i>Science</i> , 2010, 330, 204-208.	12.6	1,109
2	Succession of Hydrocarbon-Degrading Bacteria in the Aftermath of the <i>Deepwater Horizon</i> Oil Spill in the Gulf of Mexico. <i>Environmental Science & Technology</i> , 2013, 47, 10860-10867.	10.0	344
3	Deep-sea bacteria enriched by oil and dispersant from the Deepwater Horizon spill. <i>Environmental Microbiology</i> , 2012, 14, 2405-2416.	3.8	275
4	Radiolarite ages in Alpine-Mediterranean ophiolites: Constraints on the oceanic spreading and the Tethys-Atlantic connection. <i>Bulletin of the Geological Society of America</i> , 2001, 113, 129-143.	3.3	151
5	Identification and characterization of high methane-emitting abandoned oil and gas wells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13636-13641.	7.1	143
6	Incomplete Wood-Å-Ljungdahl pathway facilitates one-carbon metabolism in organohalide-respiring <i>Dehalococcoides mccartyi</i>. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6419-6424.	7.1	104
7	Influence of hydrological, biogeochemical and temperature transients on subsurface carbon fluxes in a flood plain environment. <i>Biogeochemistry</i> , 2016, 127, 367-396.	3.5	76
8	Carbon-Å-isotope stratigraphy and ammonite faunal turnover for the Middle Jurassic in the Southern Iberian palaeomargin. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 239, 311-333.	2.3	74
9	Gut anatomical properties and microbial functional assembly promote lignocellulose deconstruction and colony subsistence of a wood-feeding beetle. <i>Nature Microbiology</i> , 2019, 4, 864-875.	13.3	68
10	Factors controlling seasonal groundwater and solute flux from snow-Å-dominated basins. <i>Hydrological Processes</i> , 2018, 32, 2187-2202.	2.6	63
11	Carbon Isotope Fractionation during Aerobic Biodegradation of Trichloroethene by <i>Burkholderia cepacia</i> G4: a Tool To Map Degradation Mechanisms. <i>Applied and Environmental Microbiology</i> , 2002, 68, 1728-1734.	3.1	60
12	Reoxidation of Chromium(III) Products Formed under Different Biogeochemical Regimes. <i>Environmental Science & Technology</i> , 2017, 51, 4918-4927.	10.0	60
13	Field Evidence for Co-Metabolism of Trichloroethene Stimulated by Addition of Electron Donor to Groundwater. <i>Environmental Science & Technology</i> , 2010, 44, 4697-4704.	10.0	55
14	Carbon isotope ratios of methyl bromide and methyl chloride emitted from a coastal salt marsh. <i>Geophysical Research Letters</i> , 2002, 29, 4-1.	4.0	48
15	Bathonian radiolarians from an ophiolitic melange of the Alpine Tethys (Gets Nappe, Swiss-French) Tj ETQq1 1 0.784314 rgBT /Overlook	1.0	48
16	Aalenian carbon-isotope stratigraphy: Calibration with ammonite, radiolarian and nannofossil events in the Western Tethys. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008, 267, 115-137.	2.3	45
17	Isotopic insights into methane production, oxidation, and emissions in Arctic polygon tundra. <i>Global Change Biology</i> , 2016, 22, 3487-3502.	9.5	45
18	Title is missing!. <i>Biogeochemistry</i> , 2002, 60, 141-161.	3.5	43

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19	The Toarcian in the Subbetic basin (southern Spain): Bio-events (ammonite and calcareous) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 5 2012, 342-343, 40-63.	2.3	43
20	Carbon isotope fractionation during abiotic reductive dehalogenation of trichloroethene (TCE). Chemosphere, 2001, 44, 1281-1286.	8.2	41
21	Large carbon isotope variability during methanogenesis under alkaline conditions. Geochimica Et Cosmochimica Acta, 2018, 237, 18-31.	3.9	39
22	Temperature and injection water source influence microbial community structure in four Alaskan North Slope hydrocarbon reservoirs. Frontiers in Microbiology, 2014, 5, 409.	3.5	37
23	Carbon isotope fractionation during reductive dechlorination of TCE in batch experiments with iron samples from reactive barriers. Journal of Contaminant Hydrology, 2003, 66, 25-37.	3.3	35
24	Integrating airborne remote sensing and field campaigns for ecology and Earth system science. Methods in Ecology and Evolution, 2020, 11, 1492-1508.	5.2	33
25	The Snowmelt Niche Differentiates Three Microbial Life Strategies That Influence Soil Nitrogen Availability During and After Winter. Frontiers in Microbiology, 2020, 11, 871.	3.5	32
26	Integration of C1 and C2 Metabolism in Trees. International Journal of Molecular Sciences, 2017, 18, 2045.	4.1	25
27	Depth- and Time-Resolved Distributions of Snowmelt-Driven Hillslope Subsurface Flow and Transport and Their Contributions to Surface Waters. Water Resources Research, 2019, 55, 9474-9499.	4.2	25
28	Deep Vadose Zone Respiration Contributions to Carbon Dioxide Fluxes from a Semiarid Floodplain. Vadose Zone Journal, 2016, 15, 1-14.	2.2	24
29	Experimental and theoretical determinations of hydrogen isotopic equilibrium in the system CH ₄ H ₂ O from 3 to 200 °C. Geochimica Et Cosmochimica Acta, 2021, 314, 223-269.	3.9	23
30	Stable carbon isotope composition of atmospheric methyl bromide. Geophysical Research Letters, 2004, 31, .	4.0	22
31	Geologic CO ₂ input into groundwater and the atmosphere, Soda Springs, ID, USA. Chemical Geology, 2013, 339, 61-70.	3.3	22
32	Effects of Varying Growth Conditions on Stable Carbon Isotope Fractionation of Trichloroethene (TCE) by <i>tce</i> -A-containing <i>Dehalococcoides mccartyi</i> strains. Environmental Science & Technology, 2013, 47, 12342-12350.	10.0	18
33	Bedrock weathering contributes to subsurface reactive nitrogen and nitrous oxide emissions. Nature Geoscience, 2021, 14, 217-224.	12.9	18
34	A large column analog experiment of stable isotope variations during reactive transport: II. Carbon mass balance, microbial community structure and predation. Geochimica Et Cosmochimica Acta, 2014, 124, 394-409.	3.9	17
35	Deep Unsaturated Zone Contributions to Carbon Cycling in Semiarid Environments. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 3045-3054.	3.0	15
36	Modeling the Impact of Riparian Hollows on River Corridor Nitrogen Exports. Frontiers in Water, 2021, 3, .	2.3	15

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37	Metatranscriptomic Analysis Reveals Unexpectedly Diverse Microbial Metabolism in a Biogeochemical Hot Spot in an Alluvial Aquifer. <i>Frontiers in Microbiology</i> , 2017, 8, 40.	3.5	14
38	Shale as a Source of Organic Carbon in Floodplain Sediments of a Mountainous Watershed. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005419.	3.0	14
39	Stimulation of anaerobic organic matter decomposition by subsurface organic N addition in tundra soils. <i>Soil Biology and Biochemistry</i> , 2019, 130, 195-204.	8.8	13
40	Carbon isotope fractionation of methyl bromide during agricultural soil fumigations. <i>Biogeochemistry</i> , 2002, 60, 181-190.	3.5	12
41	Experimental determination of hydrogen isotope exchange rates between methane and water under hydrothermal conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 329, 231-255.	3.9	10
42	Conservative transport of dissolved sulfate across the Rio Madre de Dios floodplain in Peru. <i>Geology</i> , 2021, 49, 1064-1068.	4.4	9
43	Application of fungistatics in soil reduces N uptake by an arctic ericoid shrub (<i>Vaccinium</i>) Tj ETQq1 1 0.784314 19 BT / Overlock 10	1.9	8
44	Carbon-isotope stratigraphy and pelagic biofacies of the Middle–Upper Jurassic transition in the Tethys–Central Atlantic connection. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 507, 129-144.	2.3	8
45	Use of carbon stable isotopes to monitor biostimulation and electron donor fate in chromium-contaminated groundwater. <i>Chemosphere</i> , 2019, 235, 440-446.	8.2	7
46	Geochemical Controls on Release and Speciation of Fe(II) and Mn(II) From Hyporheic Sediments of East River, Colorado. <i>Frontiers in Water</i> , 2020, 2, .	2.3	7
47	Evidence for Microbial Mediated NO ₃ ⁻ Cycling Within Floodplain Sediments During Groundwater Fluctuations. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	6
48	Soil organic matter is principally root derived in an Ultisol under oak forest. <i>Geoderma</i> , 2021, 403, 115385.	5.1	6
49	Variability of Snow and Rainfall Partitioning Into Evapotranspiration and Summer Runoff Across Nine Mountainous Catchments. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	6
50	Microbial Sulfate Reduction and Perchlorate Inhibition in a Novel Mesoscale Tank Experiment. <i>Energy & Fuels</i> , 2018, 32, 12049-12065.	5.1	5
51	DYNAMICS OF A PALEOECOSYSTEM REEF ASSOCIATED WITH OCEANIC CHANGE IN CARBONATE SEDIMENTARY REGIME AND CARBON CYCLING (OXFORDIAN, SWISS JURA). <i>Palaios</i> , 2011, 26, 197-211.	1.3	4
52	Method for Controlling Temperature Profiles and Water Table Depths in Laboratory Sediment Columns. <i>Vadose Zone Journal</i> , 2018, 17, 1-7.	2.2	2
53	RELATIVE CARBON FLUXES FROM SOIL, DEEP VADOSE ZONE AND GROUNDWATER TO ATMOSPHERE AND RIVER OF A SEMI-ARID FLOODPLAIN IN COLORADO. , 2016, , .		0
54	STIMULATION OF ANAEROBIC ORGANIC MATTER DEGRADATION BY NITROGEN ADDITION IN TUNDRA SOILS. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	Mobility, Chemistry, and Prevalence of Shale-Derived Organic Carbon in an Alluvial Floodplain. , 2020, , .		0
56	An Experimental and Theoretical Calibration of CH ₄ -H ₂ -H ₂ O Hydrogen Isotopic Equilibrium from 3-200â„f. , 2020, , .		0
57	An Isotopic and Mass Balance Framework for Sulfate Redox Processes from the Andes Mountains to Amazon Floodplain. , 2020, , .		0