

# Christopher H Gammons

## List of Publications by Year in descending order

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62  
papers

2,857  
citations

172457

29  
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168389

53  
g-index

62  
all docs

62  
docs citations

62  
times ranked

2855  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diel biogeochemical processes and their effect on the aqueous chemistry of streams: A review. <i>Chemical Geology</i> , 2011, 283, 3-17.	3.3	238
2	The disproportionation of gold(I) chloride complexes at 25 to 200°C. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 1971-1983.	3.9	164
3	Diel cycles in dissolved metal concentrations in streams: Occurrence and possible causes. <i>Water Resources Research</i> , 2003, 39, .	4.2	155
4	The hydrogen and oxygen isotopic composition of precipitation, evaporated mine water, and river water in Montana, USA. <i>Journal of Hydrology</i> , 2006, 328, 319-330.	5.4	130
5	The aqueous geochemistry of the rare earth elements. Part XIV. The solubility of rare earth element phosphates from 23 to 150 °C. <i>Chemical Geology</i> , 2005, 217, 147-169.	3.3	126
6	Hydrothermal geochemistry of electrum; thermodynamic constraints. <i>Economic Geology</i> , 1995, 90, 420-432.	3.8	125
7	Diel behavior of iron and other heavy metals in a mountain stream with acidic to neutral pH: Fisher Creek, Montana, USA. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2505-2516.	3.9	115
8	Hydrogeochemistry and rare earth element behavior in a volcanically acidified watershed in Patagonia, Argentina. <i>Chemical Geology</i> , 2005, 222, 249-267.	3.3	112
9	Diel behavior of rare earth elements in a mountain stream with acidic to neutral pH. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3747-3758.	3.9	93
10	Geochemistry of the rare-earth elements and uranium in the acidic Berkeley Pit lake, Butte, Montana. <i>Chemical Geology</i> , 2003, 198, 269-288.	3.3	92
11	The solubility of Ag <sub>2</sub> S in near-neutral aqueous sulfide solutions at 25 to 300°C. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 279-290.	3.9	91
12	Rates of Arsenopyrite Oxidation by Oxygen and Fe(III) at pH 1.8~12.6 and 15~45 °C. <i>Environmental Science &amp; Technology</i> , 2007, 41, 6460-6464.	10.0	89
13	Experimental investigations of the hydrothermal geochemistry of platinum and palladium: V. Equilibria between platinum metal, Pt(II), and Pt(IV) chloride complexes at 25 to 300°C. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 1683-1694.	3.9	83
14	Biogeochemical Controls on Diel Cycling of Stable Isotopes of Dissolved O <sub>2</sub> and Dissolved Inorganic Carbon in the Big Hole River, Montana. <i>Environmental Science &amp; Technology</i> , 2005, 39, 7134-7140.	10.0	82
15	Geochemistry and stable isotope composition of the Berkeley pit lake and surrounding mine waters, Butte, Montana. <i>Applied Geochemistry</i> , 2005, 20, 2116-2137.	3.0	81
16	Geochemistry and stable isotope investigation of acid mine drainage associated with abandoned coal mines in central Montana, USA. <i>Chemical Geology</i> , 2010, 269, 100-112.	3.3	74
17	Using stable isotopes (S, O) of sulfate to track local contamination of the Madison karst aquifer, Montana, from abandoned coal mine drainage. <i>Applied Geochemistry</i> , 2013, 31, 228-238.	3.0	66
18	Mercury concentrations of fish, river water, and sediment in the Río Ramis-Lake Titicaca watershed, Peru. <i>Science of the Total Environment</i> , 2006, 368, 637-648.	8.0	59

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19	Characterizing groundwater-lake interactions and its impact on lake water quality. <i>Journal of Hydrology</i> , 2013, 492, 69-78.	5.4	57
20	Diel variations in stream chemistry and isotopic composition of dissolved inorganic carbon, upper Clark Fork River, Montana, USA. <i>Applied Geochemistry</i> , 2007, 22, 1329-1343.	3.0	54
21	Long Term Changes in the Limnology and Geochemistry of the Berkeley Pit Lake, Butte, Montana. <i>Mine Water and the Environment</i> , 2006, 25, 76-85.	2.0	45
22	Fate and transport of metals in H <sub>2</sub> S-rich waters at a treatment wetland. <i>Geochemical Transactions</i> , 2001, 2, 1.	0.7	44
23	Diel behavior of stable isotopes of dissolved oxygen and dissolved inorganic carbon in rivers over a range of trophic conditions, and in a mesocosm experiment. <i>Chemical Geology</i> , 2010, 269, 22-32.	3.3	44
24	Diel changes in metal concentrations in a geogenically acidic river: Rio Agrio, Argentina. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 178, 213-223.	2.1	39
25	Diel changes in water chemistry in an arsenic-rich stream and treatment-pond system. <i>Science of the Total Environment</i> , 2007, 384, 433-451.	8.0	36
26	The stability of aqueous silver bromide and iodide complexes at 25-300°C: Experiments, theory and geologic applications. <i>Chemical Geology</i> , 1997, 137, 155-173.	3.3	32
27	The behavior of rare earth elements in naturally and anthropogenically acidified waters. <i>Journal of Alloys and Compounds</i> , 2006, 418, 161-165.	5.5	32
28	The influence of hydrous Mn-Zn oxides on diel cycling of Zn in an alkaline stream draining abandoned mine lands. <i>Applied Geochemistry</i> , 2006, 21, 476-491.	3.0	31
29	Diel cycling of trace elements in streams draining mineralized areas—A review. <i>Applied Geochemistry</i> , 2015, 57, 35-44.	3.0	31
30	Role of Hydrous Iron Oxide Formation in Attenuation and Diel Cycling of Dissolved Trace Metals in a Stream Affected by Acid Rock Drainage. <i>Water, Air, and Soil Pollution</i> , 2007, 181, 247-263.	2.4	28
31	Photoreduction fuels biogeochemical cycling of iron in Spain's acid rivers. <i>Chemical Geology</i> , 2008, 252, 202-213.	3.3	27
32	The aqueous geochemistry of REE.. <i>Chemical Geology</i> , 2000, 166, 103-124.	3.3	26
33	Influence of diurnal cycles on metal concentrations and loads in streams draining abandoned mine lands: an example from High Ore Creek, Montana. <i>Environmental Geology</i> , 2007, 53, 611-622.	1.2	24
34	A Survey of the Geochemistry of Flooded Mine Shaft Water in Butte, Montana. <i>Mine Water and the Environment</i> , 2006, 25, 100-107.	2.0	22
35	Investigating the potential for microbially induced carbonate precipitation to treat mine waste. <i>Journal of Hazardous Materials</i> , 2022, 424, 127490.	12.4	22
36	Diel mercury-concentration variations in streams affected by mining and geothermal discharge. <i>Science of the Total Environment</i> , 2007, 373, 344-355.	8.0	21

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37	Stable isotopes track biogeochemical processes under seasonal ice cover in a shallow, productive lake. <i>Biogeochemistry</i> , 2014, 120, 359-379.	3.5	19
38	Behavior of stable isotopes of dissolved oxygen, dissolved inorganic carbon and nitrate in groundwater at a former wood treatment facility containing hydrocarbon contamination. <i>Applied Geochemistry</i> , 2012, 27, 1101-1110.	3.0	18
39	An Overview of the Mining History and Geology of Butte, Montana. <i>Mine Water and the Environment</i> , 2006, 25, 70-75.	2.0	17
40	Tracing dissolved O <sub>2</sub> and dissolved inorganic carbon stable isotope dynamics in the Nyack aquifer: Middle Fork Flathead River, Montana, USA. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5971-5986.	3.9	17
41	Geochemistry, water balance, and stable isotopes of a "clean" pit lake at an abandoned tungsten mine, Montana, USA. <i>Applied Geochemistry</i> , 2013, 36, 57-69.	3.0	17
42	Geochemistry of Flooded Underground Mine Workings Influenced by Bacterial Sulfate Reduction. <i>Aquatic Geochemistry</i> , 2007, 13, 211-235.	1.3	16
43	Influence of Copper Recovery on the Water Quality of the Acidic Berkeley Pit Lake, Montana, U.S.A.. <i>Environmental Science &amp; Technology</i> , 2015, 49, 4081-4088.	10.0	16
44	Geochemistry and Isotopic Composition of H <sub>2</sub> S-rich Water in Flooded Underground Mine Workings, Butte, Montana, USA. <i>Mine Water and the Environment</i> , 2003, 22, 141-148.	2.0	13
45	A 24 h investigation of the hydrogeochemistry of baseflow and stormwater in an urban area impacted by mining: Butte, Montana. <i>Hydrological Processes</i> , 2005, 19, 2737-2753.	2.6	13
46	Dissolved oxygen and dissolved inorganic carbon stable isotope composition and concentration fluxes across several shallow floodplain aquifers and in a diffusion experiment. <i>Biogeochemistry</i> , 2014, 117, 539-552.	3.5	12
47	Biogeochemical and microbial seasonal dynamics between water column and sediment processes in a productive mountain lake: Georgetown Lake, MT, USA. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2064-2081.	3.0	12
48	A comparison of filtered vs. unfiltered metal concentrations in treatment wetlands. <i>Mine Water and the Environment</i> , 2000, 19, 111-123.	2.0	11
49	Summary of Deepwater Sediment/Pore Water Characterization for the Metal-laden Berkeley Pit Lake in Butte, Montana. <i>Mine Water and the Environment</i> , 2006, 25, 86-92.	2.0	9
50	Estimating groundwater inflow and leakage outflow for an intermontane lake with a structurally complex geology: Georgetown Lake in Montana, USA. <i>Hydrogeology Journal</i> , 2017, 25, 135-149.	2.1	9
51	Improvements to the Water Quality of the Acidic Berkeley Pit Lake due to Copper Recovery and Sludge Disposal. <i>Mine Water and the Environment</i> , 2020, 39, 427-439.	2.0	9
52	Geochemistry of Perched Water in an Abandoned Underground Mine, Butte, Montana. <i>Mine Water and the Environment</i> , 2006, 25, 114-123.	2.0	8
53	Diel Cycling of Zinc in a Stream Impacted by Acid Rock Drainage: Initial Results from a New in situ Zn Analyzer. <i>Environmental Monitoring and Assessment</i> , 2007, 133, 161-167.	2.7	8
54	Paragenesis of cobalt and nickel in the Black Butte shale-hosted copper deposit, Belt Basin, Montana, USA. <i>Mineralium Deposita</i> , 2014, 49, 335-351.	4.1	8

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55	An investigation of acidic head-water streams in the Judith Mountains, Montana, USA. <i>Applied Geochemistry</i> , 2015, 62, 48-60.	3.0	8
56	Contaminated Alluvial Ground Water in the Butte Summit Valley. <i>Mine Water and the Environment</i> , 2006, 25, 124-129.	2.0	7
57	Evaluation of the Potential for Beneficial Use of Contaminated Water in a Flooded Mine Shaft in Butte, Montana. <i>Mine Water and the Environment</i> , 2009, 28, 264.	2.0	6
58	Results and Lessons Learned from a Continuous Injection Tracer Test in a Small Mountain Stream Receiving Acid Mine Drainage. <i>Mine Water and the Environment</i> , 2009, 28, 182-193.	2.0	5
59	Stability of aqueous Fe(III) chloride complexes and the solubility of hematite between 150 and 300°C. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 330, 148-164.	3.9	4
60	Geochemistry of natural acid rock drainage in the Judith Mountains, Montana, part 2: Seasonal and spatial trends in Chicago Gulch. <i>Applied Geochemistry</i> , 2021, 129, 104968.	3.0	3
61	Aeromagnetic and spectral expressions of rare earth element deposits in Gallinas Mountains area, Central New Mexico, USA. <i>Interpretation</i> , 2018, 6, T937-T949.	1.1	1
62	Mineralogy and sulfur isotope geochemistry of polymetallic, porphyry-epithermal mineralization peripheral to the Golden Sunlight gold mine, Montana. <i>Ore Geology Reviews</i> , 2020, 126, 103797.	2.7	1