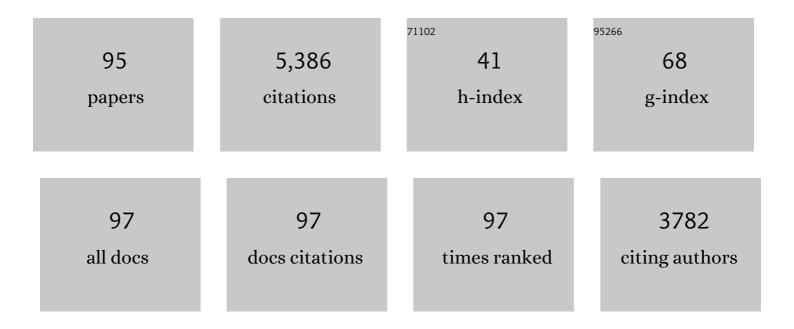
## C Geoff Wheat

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Spatial variation of subduction zone fluids during progressive subduction: Insights from Serpentinite Mud Volcanoes. Geochimica Et Cosmochimica Acta, 2022, 319, 118-134.	3.9	13
2	Fluctuation in deep groundwater chemistry and microbial community and their impact on corrosion of stainless-steels. Science of the Total Environment, 2022, 824, 153965.	8.0	5
3	Microbeâ€mineral biogeography from multiâ€year incubations in oceanic crust at North Pond, <scp>Midâ€Atlantic</scp> Ridge. Environmental Microbiology, 2021, 23, 3923-3936.	3.8	8
4	Continuous Dynamics of Dissolved Methane Over 2 Years and its Carbon Isotopes (δ <sup>13</sup> C,) Tj ETQqQ Biogeosciences, 2021, 126, e2020JG006038.	0 0 rgBT 3.0	/Overlock 10 12
5	Geothermal heating and episodic cold-seawater intrusions into an isolated ridge-flank basin near the Mid-Atlantic Ridge. Communications Earth & Environment, 2021, 2, .	6.8	0
6	Fluid transport and reaction processes within a serpentinite mud volcano: South Chamorro Seamount. Geochimica Et Cosmochimica Acta, 2020, 269, 413-428.	3.9	19
7	Mariana serpentinite mud volcanism exhumes subducted seamount materials: implications for the origin of life. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20180425.	3.4	33
8	Changing Brine Inputs Into Hydrothermal Fluids: Southern Cleft Segment, Juan de Fuca Ridge. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009360.	2.5	4
9	Subseafloor Crossâ€Hole Tracer Experiment Reveals Hydrologic Properties, Heterogeneities, and Reactions in Slow‧preading Oceanic Crust. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008804.	2.5	17
10	Subseafloor Fluid and Chemical Fluxes Along a Buriedâ€Basement Ridge on the Eastern Flank of the Juan de Fuca Ridge. Geochemistry, Geophysics, Geosystems, 2019, 20, 4922-4938.	2.5	7
11	Carbon cycling in low temperature hydrothermal systems: The Dorado Outcrop. Geochimica Et Cosmochimica Acta, 2019, 264, 1-12.	3.9	9
12	Evidence for Lowâ€Temperature Diffuse Venting at North Pond, Western Flank of the Midâ€Atlantic Ridge. Geochemistry, Geophysics, Geosystems, 2019, 20, 2572-2584.	2.5	6
13	Ecology of Subseafloor Crustal Biofilms. Frontiers in Microbiology, 2019, 10, 1983.	3.5	18
14	New isotope constraints on the Mg oceanic budget point to cryptic modern dolomite formation. Nature Communications, 2019, 10, 5646.	12.8	29
15	Geology and Fluid Discharge at Dorado Outcrop, a Low Temperature Ridgeâ€Flank Hydrothermal System. Geochemistry, Geophysics, Geosystems, 2019, 20, 487-504.	2.5	18
16	Clusters of deep-sea egg-brooding octopods associated with warm fluid discharge: An ill-fated fragment of a larger, discrete population?. Deep-Sea Research Part I: Oceanographic Research Papers, 2018, 135, 1-8.	1.4	13
17	A dynamic microbial community with high functional redundancy inhabits the cold, oxic subseafloor aquifer. ISME Journal, 2018, 12, 1-16.	9.8	148
18	Cool, alkaline serpentinite formation fluid regime with scarce microbial habitability and possible abiotic synthesis beneath the South Chamorro Seamount. Progress in Earth and Planetary Science, 2018, 5, .	3.0	19

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19	Discovery of Hydrothermal Vent Fields on Alarcón Rise and in Southern Pescadero Basin, Gulf of California. Geochemistry, Geophysics, Geosystems, 2018, 19, 4788-4819.	2.5	40
20	A global Ge isotope budget. Geochimica Et Cosmochimica Acta, 2017, 203, 265-283.	3.9	29
21	Cool seafloor hydrothermal springs reveal global geochemical fluxes. Earth and Planetary Science Letters, 2017, 476, 179-188.	4.4	62
22	Influences of the Tonga Subduction Zone on seafloor massive sulfide deposits along the Eastern Lau Spreading Center and Valu Fa Ridge. Geochimica Et Cosmochimica Acta, 2017, 215, 214-246.	3.9	10
23	Microbial response to oil enrichment in Gulf of Mexico sediment measured using a novel long-term benthic lander system. Elementa, 2017, 5, .	3.2	19
24	Temperature and Redox Effect on Mineral Colonization in Juan de Fuca Ridge Flank Subsurface Crustal Fluids. Frontiers in Microbiology, 2016, 7, 396.	3.5	19
25	Assessing Marine Microbial Induced Corrosion at Santa Catalina Island, California. Frontiers in Microbiology, 2016, 7, 1679.	3.5	37
26	A distinct and active bacterial community in cold oxygenated fluids circulating beneath the western flank of the Mid-Atlantic ridge. Scientific Reports, 2016, 6, 22541.	3.3	62
27	Cross-hole tracer experiment reveals rapid fluid flow and low effective porosity in the upper oceanic crust. Earth and Planetary Science Letters, 2016, 450, 355-365.	4.4	27
28	Fluid flow and water–rock interaction across the active Nankai Trough subduction zone forearc revealed by boron isotope geochemistry. Geochimica Et Cosmochimica Acta, 2016, 193, 100-118.	3.9	24
29	Molecular taxonomy and naming of five cryptic species of <i>Alviniconcha</i> snails (Gastropoda:) Tj ETQq1 1 0.7	'84314 rg  1.2	BT / Qverlock
30	Oxygen consumption rates in subseafloor basaltic crust derived from a reaction transport model. Nature Communications, 2013, 4, 2539.	12.8	96
31	Mariana Forearc Serpentinite Mud Volcanoes Harbor Novel Communities of Extremophilic <i>Archaea</i> . Geomicrobiology Journal, 2013, 30, 430-441.	2.0	28
32	Characterizing Microbial Community and Geochemical Dynamics at Hydrothermal Vents Using Osmotically Driven Continuous Fluid Samplers. Environmental Science & Technology, 2013, 47, 4399-4407.	10.0	27
33	Seawater recharge into oceanic crust: IODP Exp 327 Site U1363 Grizzly Bare outcrop. Geochemistry, Geophysics, Geosystems, 2013, 14, 1957-1972.	2.5	41
34	Microbial activity in the marine deep biosphere: progress and prospects. Frontiers in Microbiology, 2013, 4, 189.	3.5	98
35	The Deep Subsurface Biosphere in Igneous Ocean Crust: Frontier Habitats for Microbiological Exploration. Frontiers in Microbiology, 2012, 3, 8.	3.5	62
36	Interâ€field variability in the microbial communities of hydrothermal vent deposits from a backâ€arc basin. Geobiology, 2012, 10, 333-346.	2.4	86

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37	Advanced instrument system for real-time and time-series microbial geochemical sampling of the deep (basaltic) crustal biosphere. Deep-Sea Research Part I: Oceanographic Research Papers, 2012, 61, 43-56.	1.4	48
38	Rapid nutrient load reduction during infiltration of managed aquifer recharge in an agricultural groundwater basin: Pajaro Valley, California. Hydrological Processes, 2012, 26, 2235-2247.	2.6	38
39	In situ enrichment of ocean crust microbes on igneous minerals and glasses using an osmotic flow-through device. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	65
40	Conditions and mechanism for the formation of iron-rich Montmorillonite in deep sea sediments (Costa Rica margin): Coupling high resolution mineralogical characterization and geochemical modeling. Geochimica Et Cosmochimica Acta, 2011, 75, 1397-1410.	3.9	28
41	Chemistry of hot springs along the Eastern Lau Spreading Center. Geochimica Et Cosmochimica Acta, 2011, 75, 1013-1038.	3.9	121
42	Colonization of subsurface microbial observatories deployed in young ocean crust. ISME Journal, 2011, 5, 692-703.	9.8	155
43	Under the sea: microbial life in volcanic oceanic crust. Nature Reviews Microbiology, 2011, 9, 703-712.	28.6	79
44	Seamounts as Conduits for Massive Fluid, Heat, and Solute Fluxes on Ridge Flanks. Oceanography, 2010, 23, 74-87.	1.0	119
45	Subseafloor Ocean Crust Microbial Observatories: Development of FLOCS (FLow-through Osmo) Tj ETQq1 1 0.7 2010, 27, 143-157.	784314 rgB 2.0	T /Overlock 63
46	Carbon release from submarine seeps at the Costa Rica fore arc: Implications for the volatile cycle at the Central America convergent margin. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	39
47	Fluid sources and pathways of the Costa Rica erosional convergent margin. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	19
48	Subseafloor seawaterâ€basaltâ€microbe reactions: Continuous sampling of borehole fluids in a ridge flank environment. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	54
49	Long-term hydrogeochemical records in the oceanic basement and forearc prism at the Costa Rica subduction zone. Earth and Planetary Science Letters, 2009, 282, 240-251.	4.4	54
50	Bacterial Variability within an Iron-Silica-Manganese-rich Hydrothermal Mound Located Off-axis at the Cleft Segment, Juan de Fuca Ridge. Geomicrobiology Journal, 2009, 26, 570-580.	2.0	41
51	Characterization of metalliferous sediment from a low-temperature hydrothermal environment on the East Pacific Rise. Marine Geology, 2008, 250, 128-141.	2.1	38
52	Germanium in midâ€ocean ridge flank hydrothermal fluids. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	27
53	Massive, Iowâ€ŧemperature hydrothermal flow from a basaltic outcrop on 23 Ma seafloor of the Cocos Plate: Chemical constraints and implications. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	84
54	Borehole observations of fluid flow from South Chamorro Seamount, an active serpentinite mud volcano in the Mariana forearc. Earth and Planetary Science Letters, 2008, 267, 401-409.	4.4	41

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55	Nitrate dynamics within the Pajaro River, a nutrient-rich, losing stream. Journal of the North American Benthological Society, 2007, 26, 191-206.	3.1	25
56	Seawater recharge along an eastern bounding fault in Middle Valley, northern Juan de Fuca Ridge. Geophysical Research Letters, 2007, 34, .	4.0	9
57	Microbial Community in Black Rust Exposed to Hot Ridge Flank Crustal Fluids. Applied and Environmental Microbiology, 2006, 72, 6789-6799.	3.1	86
58	The potential role of ridge-flank hydrothermal systems on oceanic germanium and silicon balances. Geochimica Et Cosmochimica Acta, 2005, 69, 2021-2029.	3.9	33
59	Mineralogical characterization and genesis of hydrothermal Mn oxides from the flank of the Juan the Fuca Ridge. American Mineralogist, 2004, 89, 1807-1815.	1.9	24
60	Hydrothermal seepage patterns above a buried basement ridge, eastern flank of the Juan de Fuca Ridge. Journal of Geophysical Research, 2004, 109, .	3.3	19
61	Heat flow through a basaltic outcrop on a sedimented young ridge flank. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a.	2.5	58
62	Venting formation fluids from deep-sea boreholes in a ridge flank setting: ODP Sites 1025 and 1026. Geochemistry, Geophysics, Geosystems, 2004, 5, .	2.5	36
63	Chemistry of springs across the Mariana forearc shows progressive devolatilization of the subducting plate. Geochimica Et Cosmochimica Acta, 2004, 68, 4915-4933.	3.9	155
64	Continuous chemical monitoring with osmotically pumped water samplers: OsmoSampler design and applications. Limnology and Oceanography: Methods, 2004, 2, 102-113.	2.0	68
65	Hydrothermal recharge and discharge across 50 km guided by seamounts on a young ridge flank. Nature, 2003, 421, 618-621.	27.8	224
66	Oceanic phosphorus imbalance: Magnitude of the mid-ocean ridge flank hydrothermal sink. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	95
67	Seawater transport and reaction in upper oceanic basaltic basement: chemical data from continuous monitoring of sealed boreholes in a ridge flank environment. Earth and Planetary Science Letters, 2003, 216, 549-564.	4.4	65
68	SULFIDE FORMATION RELATED TO CHANGES IN THE HYDROTHERMAL SYSTEM ON LOIHI SEAMOUNT, HAWAI'I, FOLLOWING THE SEISMIC EVENT IN 1996. Canadian Mineralogist, 2003, 41, 457-472.	1.0	19
69	Groundwater seepage into northern San Francisco Bay: Implications for dissolved metals budgets. Water Resources Research, 2002, 38, 12-1-12-19.	4.2	19
70	Oceanic molybdenum isotope fractionation: Diagenesis and hydrothermal ridge-flank alteration. Geochemistry, Geophysics, Geosystems, 2002, 3, 1-9.	2.5	140
71	Trace element and REE composition of a low-temperature ridge-flank hydrothermal spring. Geochimica Et Cosmochimica Acta, 2002, 66, 3693-3705.	3.9	124
72	Effect of fluid-sediment reaction on hydrothermal fluxes of major elements, eastern flank of the Juan de Fuca Ridge. Geochimica Et Cosmochimica Acta, 2002, 66, 1739-1757.	3.9	87

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73	Barium geochemistry in sediment pore waters and formation waters of the oceanic crust on the eastern flank of the Juan de Fuca Ridge (ODP Leg 168). Geochemistry, Geophysics, Geosystems, 2001, 2, n/a-n/a.	2.5	26
74	Evidence for basaltic Sr in midocean ridge-flank hydrothermal systems and implications for the global oceanic Sr isotope balance. Geochimica Et Cosmochimica Acta, 2001, 65, 4141-4153.	3.9	58
75	Composition of pore and spring waters from Baby Bare: global implications of geochemical fluxes from a ridge flank hydrothermal system. Geochimica Et Cosmochimica Acta, 2000, 64, 629-642.	3.9	195
76	Chemical composition of basement fluids within an oceanic ridge flank: Implications for along-strike and across-strike hydrothermal circulation. Journal of Geophysical Research, 2000, 105, 13437-13447.	3.3	97
77	Continuous sampling of hydrothermal fluids from Loihi Seamount after the 1996 event. Journal of Geophysical Research, 2000, 105, 19353-19367.	3.3	63
78	A geological and geophysical investigation of Baby Bare, locus of a ridge flank hydrothermal system in the Cascadia Basin. Journal of Geophysical Research, 2000, 105, 23557-23568.	3.3	24
79	Mariana blueschist mud volcanism: Implications for conditions within the subduction zone. Geology, 1999, 27, 103.	4.4	185
80	Fluid and geochemical transport through oceanic crust: a transect across the eastern flank of the Juan de Fuca Ridge. Earth and Planetary Science Letters, 1999, 172, 151-165.	4.4	205
81	CO2-depleted fluids from mid-ocean ridge-flank hydrothermal springs. Geochimica Et Cosmochimica Acta, 1998, 62, 2247-2252.	3.9	46
82	Petrology of Baby Bare and Mama Bare lavas. Geophysical Research Letters, 1998, 25, 117-120.	4.0	15
83	Hydrothermal fluid circulation through the sediment of Crater Lake, Oregon: Pore water and heat flow constraints. Journal of Geophysical Research, 1998, 103, 9931-9944.	3.3	11
84	Chemical plumes from low-temperature hydrothermal venting on the eastern flank of the Juan de Fuca Ridge. Journal of Geophysical Research, 1997, 102, 15433-15446.	3.3	24
85	Phosphate removal by oceanic hydrothermal processes: An update of the phosphorus budget in the oceans. Geochimica Et Cosmochimica Acta, 1996, 60, 3593-3608.	3.9	167
86	Spatial and temporal distribution of dissolved oxygen in Crater Lake,Oregon. Limnology and Oceanography, 1996, 41, 722-731.	3.1	18
87	Manganese and methane in hydrothermal plumes along the East Pacific Rise, 8°40′ to 11°50′N. Geochim Et Cosmochimica Acta, 1995, 59, 4147-4165.	lica 3.9	62
88	Mapping the fluid flow of the Mariana Mounds ridge flank hydrothermal system: Pore water chemical tracers. Journal of Geophysical Research, 1995, 100, 8115-8131.	3.3	31
89	Hydrothermal circulation through mid-ocean ridge flanks: Fluxes of heat and magnesium. Geochimica Et Cosmochimica Acta, 1994, 58, 2225-2237.	3.9	266
90	Hydrothermal flow through the Mariana Mounds: Dissolution of amorphous silica and degradation of organic matter on a mid-ocean ridge flank. Geochimica Et Cosmochimica Acta, 1994, 58, 2461-2475.	3.9	27

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91	Hydrothermal circulation, Juan de Fuca Ridge eastern flank: Factors controlling basement water composition. Journal of Geophysical Research, 1994, 99, 3067-3080.	3.3	105
92	Hydrothermal plumes along the East Pacific Rise, 8°40′ to 11°50′N: Plume distribution and relationship to the apparent magmatic budget. Earth and Planetary Science Letters, 1994, 128, 1-17.	4.4	78
93	Chemical and physical diversity of hydrothermal plumes along the East Pacific Rise, 8°45′N to 11°50′N. Geophysical Research Letters, 1993, 20, 2913-2916.	4.0	48
94	CORK-Lite: Bringing Legacy Boreholes Back to Life. Scientific Drilling, 0, 14, 39-43.	0.6	11
95	A new high-temperature borehole fluid sampler: the Multi-Temperature Fluid Sampler. Scientific Drilling, 0, 28, 43-48.	0.6	1