

# James W Murray

## List of Publications by Year in descending order

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136  
papers

12,161  
citations

20797

60  
h-index

27389

106  
g-index

140  
all docs

140  
docs citations

140  
times ranked

8135  
citing authors

#	ARTICLE	IF	CITATIONS
1	The surface chemistry of hydrous manganese dioxide. <i>Journal of Colloid and Interface Science</i> , 1974, 46, 357-371.	5.0	452
2	The interaction of metal ions at the manganese dioxide-solution interface. <i>Geochimica Et Cosmochimica Acta</i> , 1975, 39, 505-519.	1.6	403
3	Scavenging residence times of trace metals and surface chemistry of sinking particles in the deep ocean. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1981, 28, 101-121.	1.6	336
4	Oil's tipping point has passed. <i>Nature</i> , 2012, 481, 433-435.	13.7	302
5	Large changes in oceanic nutrient inventories from glacial to interglacial periods. <i>Nature</i> , 1995, 376, 755-758.	13.7	295
6	Functional responses for zooplankton feeding on multiple resources: a review of assumptions and biological dynamics. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2003, 50, 2847-2875.	0.6	269
7	The determination of chromium species in natural waters. <i>Analytica Chimica Acta</i> , 1978, 99, 275-282.	2.6	253
8	The oxidation of cobalt(II) adsorbed on manganese dioxide. <i>Geochimica Et Cosmochimica Acta</i> , 1979, 43, 781-787.	1.6	252
9	Surface analysis and the adsorption of Co(II) on goethite. <i>Journal of Colloid and Interface Science</i> , 1983, 95, 398-409.	5.0	252
10	Suboxic trace metal geochemistry in the Eastern Tropical North Pacific. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 1139-1158.	1.6	250
11	Oxidation of Mn(II): Initial mineralogy, oxidation state and ageing. <i>Geochimica Et Cosmochimica Acta</i> , 1985, 49, 463-470.	1.6	247
12	The adsorption of Cu, Pb, Zn, and Cd on goethite from major ion seawater. <i>Geochimica Et Cosmochimica Acta</i> , 1982, 46, 1253-1265.	1.6	243
13	The adsorption of plutonium IV and V on goethite. <i>Geochimica Et Cosmochimica Acta</i> , 1985, 49, 2297-2307.	1.6	225
14	Interstitial water chemistry in the sediments of Saanich Inlet. <i>Geochimica Et Cosmochimica Acta</i> , 1978, 42, 1011-1026.	1.6	215
15	Modeling sorption of divalent metal cations on hydrous manganese oxide using the diffuse double layer model. <i>Applied Geochemistry</i> , 2004, 19, 29-53.	1.4	214
16	Oceanic trace metal scavenging: the importance of particle concentration. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1988, 35, 227-246.	1.6	213
17	Hydrographic properties and ventilation of the Black Sea. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1991, 38, S663-S689.	1.6	209
18	Denitrification in continental shelf sediments has major impact on the oceanic nitrogen budget. <i>Global Biogeochemical Cycles</i> , 1987, 1, 97-116.	1.9	206

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19	Export flux of particulate organic carbon from the central equatorial Pacific determined using a combined drifting trap- <sup>234</sup> Th approach. Deep-Sea Research Part II: Topical Studies in Oceanography, 1996, 43, 1095-1132.	0.6	200
20	The oxidation state of manganese in marine sediments and ferromanganese nodules. Geochimica Et Cosmochimica Acta, 1984, 48, 1237-1247.	1.6	192
21	Variations in the chemistry of the Black Sea on a time scale of decades (1960-1995). Journal of Marine Systems, 2001, 31, 217-243.	0.9	167
22	Nutrient assimilation, export production and <sup>234</sup> Th scavenging in the eastern equatorial Pacific. Deep-sea Research Part A, Oceanographic Research Papers, 1989, 36, 1471-1489.	1.6	163
23	Trace metal remobilization in the interstitial waters of red clay and hemipelagic marine sediments. Earth and Planetary Science Letters, 1983, 64, 213-230.	1.8	161
24	Uranium deposition in saanich inlet sediments, vancouver island. Geochimica Et Cosmochimica Acta, 1989, 53, 2205-2213.	1.6	154
25	A model of oxygen reduction, denitrification, and organic matter mineralization in marine sediments. Limnology and Oceanography, 1982, 27, 610-623.	1.6	153
26	The geochemical cycling of trace elements in a biogenic meromictic lake. Geochimica Et Cosmochimica Acta, 1994, 58, 3993-4008.	1.6	147
27	A U.S. JGOFS process study in the equatorial Pacific (EqPac): Introduction. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 275-293.	0.6	147
28	The surface chemistry of MnO <sub>2</sub> in major ion sea water. Geochimica Et Cosmochimica Acta, 1982, 46, 1041-1052.	1.6	146
29	Methane production, sulfate reduction and competition for substrates in the sediments of Lake Washington. Geochimica Et Cosmochimica Acta, 1989, 53, 409-416.	1.6	142
30	Thorium speciation in seawater. Marine Chemistry, 2006, 100, 250-268.	0.9	142
31	Iron isotopes in the seawater of the equatorial Pacific Ocean: New constraints for the oceanic iron cycle. Earth and Planetary Science Letters, 2011, 306, 1-10.	1.8	139
32	Oxidation-Reduction Environments. Advances in Chemistry Series, 1995, , 157-176.	0.6	137
33	The interaction of cobalt with hydrous manganese dioxide. Geochimica Et Cosmochimica Acta, 1975, 39, 635-647.	1.6	131
34	The geochemistry of iron in puget sound. Geochimica Et Cosmochimica Acta, 1978, 42, 9-19.	1.6	130
35	Aerobic respiration in pelagic marine sediments. Geochimica Et Cosmochimica Acta, 1982, 46, 1101-1120.	1.6	128
36	The surface chemistry of sediments from the Panama Basin: The influence of Mn oxides on metal adsorption. Geochimica Et Cosmochimica Acta, 1986, 50, 2235-2243.	1.6	125

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37	A model for coupled sulfate reduction and methane oxidation in the sediments of Saanich Inlet. <i>Geochimica Et Cosmochimica Acta</i> , 1984, 48, 993-1004.	1.6	124
38	Phytoplankton and Their Role in Primary, New, and Export Production. , 2003, , 99-121.		124
39	The cycling of iron and manganese in the water column of Lake Sammamish, Washington. <i>Limnology and Oceanography</i> , 1992, 37, 510-528.	1.6	117
40	The mechanisms of Co(II) oxidation on synthetic birnessite. <i>Geochimica Et Cosmochimica Acta</i> , 1983, 47, 1399-1403.	1.6	114
41	Lateral injection of oxygen with the Bosphorus plumeâ€™fingers of oxidizing potential in the Black Sea. <i>Limnology and Oceanography</i> , 2003, 48, 2369-2376.	1.6	110
42	Modeling exchangeable NH <sub>4</sub> <sup>+</sup> adsorption in marine sediments: Process and controls of adsorption1,2. <i>Limnology and Oceanography</i> , 1982, 27, 99-110.	1.6	108
43	Lead-210, polonium-210, manganese and iron in the Cariaco Trench. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1980, 27, 119-135.	1.6	102
44	The biogeochemical cycling of trace metals in the water column of Lake Sammamish, Washington: Response to seasonally anoxic conditions. <i>Limnology and Oceanography</i> , 1992, 37, 529-548.	1.6	98
45	Free-living and aggregate-associated Planctomycetes in the Black Sea. <i>FEMS Microbiology Ecology</i> , 2012, 80, 402-416.	1.3	96
46	Metal-solid interactions in the marine environment: Estimating apparent equilibrium binding constants. <i>Geochimica Et Cosmochimica Acta</i> , 1983, 47, 1091-1098.	1.6	94
47	Metabolic strategies of free-living and aggregate-associated bacterial communities inferred from biologic and chemical profiles in the Black Sea suboxic zone. <i>FEMS Microbiology Ecology</i> , 2011, 78, 586-603.	1.3	94
48	Marine scavenging: Trace metal adsorption by interfacial sediment from MANOP Site H. <i>Geochimica Et Cosmochimica Acta</i> , 1984, 48, 921-929.	1.6	92
49	Nitrification and denitrification in marine sediments from Puget Sound1. <i>Limnology and Oceanography</i> , 1977, 22, 804-813.	1.6	85
50	<sup>234</sup> Th, <sup>210</sup> Pb, <sup>210</sup> Po and stable Pb in the central equatorial Pacific: Tracers for particle cycling. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005, 52, 2109-2139.	0.6	83
51	Carbonate saturation and the effect of pressure on the alkalinity of interstitial waters from the Guatemala Basin. <i>Geochimica Et Cosmochimica Acta</i> , 1980, 44, 963-972.	1.6	82
52	Diversity and Distribution of Planctomycetes and Related Bacteria in the Suboxic Zone of the Black Sea. <i>Applied and Environmental Microbiology</i> , 2006, 72, 3079-3083.	1.4	79
53	Concentration and natural stable isotope profiles of nitrogen species in theBlack Sea. <i>Marine Chemistry</i> , 2008, 111, 90-105.	0.9	78
54	Western Pacific coastal sources of iron, manganese, and aluminum to the Equatorial Undercurrent. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	1.9	78

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55	The oxidation states of cobalt and selected metals in Pacific ferromanganese nodules. <i>Geochimica Et Cosmochimica Acta</i> , 1982, 46, 755-759.	1.6	77
56	interaction: The effect of carbonate alkalinity on adsorbed thorium. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 243-250.	1.6	76
57	The influence of the major ions of seawater on the adsorption of simple organic acids by goethite. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 1151-1160.	1.6	75
58	Basic Processes of Black Sea Biogeochemistry. <i>Oceanography</i> , 2005, 18, 24-35.	0.5	72
59	Organic matter diagenesis in the northeast Pacific: transition from aerobic red clay to suboxic hemipelagic sediments. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1990, 37, 59-80.	1.6	69
60	The behavior of scavenged isotopes in marine anoxic environments: <sup>210</sup> Pb and <sup>210</sup> Po in the water column of the Black Sea. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 1795-1811.	1.6	66
61	Iron sources and dissolved-particulate interactions in the seawater of the Western Equatorial Pacific, iron isotope perspectives. <i>Global Biogeochemical Cycles</i> , 2014, 28, 1044-1065.	1.9	66
62	Trace metal composition of suspended particulate matter in the water column of the Black Sea. <i>Marine Chemistry</i> , 2011, 126, 207-228.	0.9	60
63	<sup>234</sup> Th and particle cycling in the central equatorial Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1997, 44, 2049-2083.	0.6	59
64	Processes controlling the redox budget for the oxic/anoxic water column of the Black Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1817-1841.	0.6	59
65	Organic matter diagenesis in freshwater sediments: The alkalinity and total CO <sub>2</sub> balance and methane production in the sediments of Lake Washington <sup>1,2</sup> . <i>Limnology and Oceanography</i> , 1984, 29, 1218-1230.	1.6	58
66	Hydrographic Observations on the Red Sea Brines indicate a Marked Increase in Temperature. <i>Nature</i> , 1971, 231, 37-38.	13.7	57
67	Nickel, cadmium, and copper in the northeast Pacific off the coast of Washington <sup>1,2</sup> . <i>Limnology and Oceanography</i> , 1984, 29, 711-720.	1.6	56
68	EqPac: A Process Study in the Central Equatorial Pacific. <i>Oceanography</i> , 1992, 5, 134-142.	0.5	56
69	A physical-biochemical model of plankton productivity and nitrogen cycling in the Black Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1999, 46, 597-636.	0.6	56
70	Temporal variations of <sup>234</sup> Th activity in the water column of Dabob Bay: Particle scavenging. <i>Limnology and Oceanography</i> , 1992, 37, 296-314.	1.6	54
71	Modeling Metal Removal onto Natural Particles Formed during Mixing of Acid Rock Drainage with Ambient Surface Water. <i>Environmental Science &amp; Technology</i> , 2002, 36, 484-492.	4.6	54
72	Modeling redox cycling across the suboxic-anoxic interface zone in the Black Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2001, 48, 761-787.	0.6	52

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73	Export flux in the western and central equatorial Pacific: zonal and temporal variability. Deep-Sea Research Part I: Oceanographic Research Papers, 2000, 47, 901-936.	0.6	51
74	The geochemical cycling of stable Pb, <sup>210</sup> Pb, and <sup>210</sup> Po in seasonally anoxic Lake Sammamish, Washington, USA. Geochimica Et Cosmochimica Acta, 1995, 59, 4845-4861.	1.6	50
75	An ecosystem model with iron limitation of primary production in the equatorial Pacific at 140°W. Deep-Sea Research Part II: Topical Studies in Oceanography, 1997, 44, 2221-2249.	0.6	50
76	Organic carbon to <sup>234</sup> Th ratios of marine organic matter. Marine Chemistry, 2006, 100, 323-336.	0.9	50
77	Vertical distribution of mercury species at two sites in the Western Black Sea. Marine Chemistry, 2008, 111, 77-89.	0.9	50
78	Anthropogenic chlorofluorocarbons in the Black Sea and the Sea of Marmara. Deep-Sea Research Part I: Oceanographic Research Papers, 2002, 49, 895-913.	0.6	49
79	Ventilation of the Black Sea pycnocline. Parameterization of convection, numerical simulations and validations against observed chlorofluorocarbon data. Deep-Sea Research Part I: Oceanographic Research Papers, 2004, 51, 2137-2169.	0.6	49
80	Ice-sheet modulation of deglacial North American monsoon intensification. Nature Geoscience, 2018, 11, 848-852.	5.4	49
81	The 1988 Black Sea Oceanographic Expedition: introduction and summary. Deep-sea Research Part A, Oceanographic Research Papers, 1991, 38, S655-S661.	1.6	48
82	The effect of iron- and light-limitation on phytoplankton communities of deep chlorophyll maxima of the western Pacific Ocean. Journal of Marine Research, 2010, 68, 283-308.	0.3	47
83	The 1988 Black Sea Oceanographic Expedition: Overview and New Discoveries. Oceanography, 1989, 2, 15-21.	0.5	47
84	The Contrasting Geochemistry of Manganese and Chromium in the Eastern Tropical Pacific Ocean. , 1983, , 643-669.		46
85	The geochemistry of manganese in the northeast Pacific Ocean off Washington <sup>1,2</sup> . Limnology and Oceanography, 1985, 30, 81-92.	1.6	45
86	The distribution and behaviour of <sup>230</sup> Th and <sup>231</sup> Pa at an ocean margin, Baja California, Mexico. Geochimica Et Cosmochimica Acta, 1986, 50, 2499-2507.	1.6	44
87	Estimation of new production in the tropical Pacific. Global Biogeochemical Cycles, 2001, 15, 101-112.	1.9	44
88	Decline of the Black Sea oxygen inventory. Biogeosciences, 2016, 13, 1287-1297.	1.3	43
89	Methane production in the sulfate-depleted sediments of two marine basins. Geochimica Et Cosmochimica Acta, 1990, 54, 403-411.	1.6	42
90	Silicon-nitrogen coupling in the equatorial Pacific upwelling zone. Global Biogeochemical Cycles, 1999, 13, 715-726.	1.9	41

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91	Species and $\delta^{15}\text{N}$ Signatures of Nitrogen Transformations in the Suboxic Zone of the Black Sea. <i>Oceanography</i> , 2005, 18, 36-47.	0.5	41
92	Mechanisms Controlling the Distribution of Trace Elements in Oceans and Lakes. <i>Advances in Chemistry Series</i> , 1987, , 153-184.	0.6	40
93	Particulate carbon and nitrogen fluxes and compositions in the central equatorial Pacific. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2001, 48, 1999-2023.	0.6	40
94	Trace metal composition of particulate matter of the Danube River and Turkish rivers draining into the Black Sea. <i>Marine Chemistry</i> , 2008, 111, 63-76.	0.9	40
95	An inland sea high nitrate–low chlorophyll (HNLC) region with naturally high $\text{pCO}_2$ . <i>Limnology and Oceanography</i> , 2015, 60, 957-966.	1.6	38
96	$^{234}\text{Th}/^{238}\text{U}$ disequilibria in the Black Sea. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1991, 38, S855-S873.	1.6	36
97	Chapter 2. IRON OXIDES. , 1979, , 47-98.		32
98	Spatial and temporal variability in the chemical properties of the oxic and suboxic layers of the Black Sea. <i>Journal of Marine Systems</i> , 2014, 135, 29-43.	0.9	31
99	Biogeochemical controls on new production in the tropical Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 2619-2648.	0.6	29
100	Neutral aldoses as source indicators for marine snow. <i>Marine Chemistry</i> , 2008, 108, 195-206.	0.9	29
101	Stimulation of Autotrophic Denitrification by Intrusions of the Bosphorus Plume into the Anoxic Black Sea. <i>Frontiers in Microbiology</i> , 2012, 3, 257.	1.5	29
102	Chapter 10 Mechanisms of Removal of Manganese, Iron and Other Trace Metals from Sea Water. <i>Elsevier Oceanography Series</i> , 1977, 15, 291-325.	0.1	27
103	Understanding the Dynamics of the Oxic–Anoxic Interface in the Black Sea. <i>Geophysical Research Letters</i> , 2018, 45, 864-871.	1.5	27
104	Modeling the distribution of nitrogen species and isotopes in the water column of the Black Sea. <i>Marine Chemistry</i> , 2008, 111, 106-124.	0.9	26
105	Zonal variability of plankton and particle export flux in the equatorial Pacific upwelling between $165^\circ\text{E}$ and $150^\circ\text{W}$ . <i>Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie</i> , 1999, 22, 57-66.	0.7	25
106	Particulate iron, aluminum, and manganese in the Pacific equatorial undercurrent and low latitude western boundary current sources. <i>Marine Chemistry</i> , 2012, 142-144, 54-67.	0.9	24
107	JGOFS studies in the equatorial Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1997, 44, 1759-1763.	0.6	23
108	THE SUBOXIC TRANSITION ZONE IN THE BLACK SEA. , 2006, , 105-138.		23

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109	Biogeochemical impact of a model western iron source in the Pacific Equatorial Undercurrent. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 2115-2128.	0.6	22
110	Concurrent activity of anammox and denitrifying bacteria in the Black Sea. Frontiers in Microbiology, 2012, 3, 256.	1.5	22
111	Peak Oil and Energy Independence: Myth and Reality. Eos, 2013, 94, 245-246.	0.1	22
112	Sensitivity of <sup>234</sup> Th export to physical processes in the central equatorial Pacific. Deep-Sea Research Part I: Oceanographic Research Papers, 1999, 46, 831-854.	0.6	21
113	Fallout plutonium in two oxic-anoxic environments <sup>1</sup> . Limnology and Oceanography, 1986, 31, 1110-1121.	1.6	18
114	Marine scavenging: The relative importance of mass transfer and reaction rates. Limnology and Oceanography, 1996, 41, 82-88.	1.6	18
115	Interdisciplinary Studies Integrating the Black Sea Biogeochemistry and Circulation Dynamics. Oceanography, 2002, 15, 4-11.	0.5	18
116	Carbon, nitrogen and phosphorus in the black sea. Deep Sea Research and Oceanographic Abstracts, 1973, 20, 803-818.	0.3	17
117	Geochemical composition of Aeolian dust and surface deposits from the Qatar Peninsula. Chemical Geology, 2018, 476, 24-45.	1.4	16
118	Surface of Goethite (Î±FeOOH) in Seawater. ACS Symposium Series, 1979, , 275-298.	0.5	15
119	9 The Oceans. International Geophysics, 1992, 50, 175-211.	0.6	15
120	Simulations of the Black Sea pelagic ecosystem by 1â€œ, vertically resolved, physicalâ€œbiochemical models. Fisheries Oceanography, 1998, 7, 300-304.	0.9	13
121	Hydrographic Variability in the Black Sea. , 1991, , 1-16.		12
122	Oxic, suboxic, and anoxic conditions in the Black Sea. , 2007, , 1-21.		12
123	Detection of Transient Denitrification During a High Organic Matter Event in the Black Sea. Global Biogeochemical Cycles, 2019, 33, 143-162.	1.9	11
124	Use of the Coastal Zone Color Scanner for EqPac Planning. Oceanography, 1992, 5, 143-145.	0.5	10
125	Controls on new production: the role of iron and physical processes. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 2649-2668.	0.6	10
126	The clay mineralogy of marine sediments in the North Atlantic at 20Â° N. latitude. Earth and Planetary Science Letters, 1970, 10, 39-43.	1.8	9



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127	A rate for the scavenging of fine particles by macroaggregates in a deep estuary. <i>Journal of Geophysical Research</i> , 1991, 96, 783-790.	3.3	9
128	Water column distribution of <sup>230</sup> Th and <sup>232</sup> Th in the Black Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1994, 41, 101-112.	0.6	8
129	Limitations of Oil Production to the IPCC Scenarios: The New Realities of US and Global Oil Production. <i>BioPhysical Economics and Resource Quality</i> , 2016, 1, 1.	2.4	8
130	Trace element composition of size-fractionated suspended particulate matter samples from the Qatari Exclusive Economic Zone of the Arabian Gulf: the role of atmospheric dust. <i>Biogeosciences</i> , 2020, 17, 381-404.	1.3	8
131	Panel 2: The nature of reactions on marine particle surfaces. <i>Applied Geochemistry</i> , 1988, 3, 19-26.	1.4	5
132	Phytoplankton biomass, primary production and chemoautotrophic production of the Western Black Sea in April 2003. <i>Journal of Marine Systems</i> , 2019, 198, 103183.	0.9	5
133	Climatic Drivers of Deglacial SST Variability in the Eastern Pacific. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2021PA004264.	1.3	3
134	Community plans for future of ocean biogeochemical research. <i>Eos</i> , 1998, 79, 372-372.	0.1	2
135	The Oceans. <i>International Geophysics</i> , 2000, 72, 230-278.	0.6	2
136	Glacial warming in the Eastern Pacific Warm Pool. <i>Geophysical Research Letters</i> , 0, , .	1.5	0