

Hilary A Kennedy

List of Publications by Year in descending order

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112
papers

7,816
citations

71102

41
h-index

54911

84
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115
all docs

115
docs citations

115
times ranked

6903
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Sea ice contribution to the air-sea CO ₂ exchange in the Arctic and Southern Oceans. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 63, 823. | 1.6 | 102 |
| 2 | Future Mangrove Carbon Storage Under Climate Change and Deforestation. <i>Frontiers in Marine Science</i> , 2022, 9, . | 2.5 | 31 |
| 3 | Integrating blue: How do we make nationally determined contributions work for both blue carbon and local coastal communities?. <i>Ambio</i> , 2022, 51, 1978-1993. | 5.5 | 16 |
| 4 | Operationalizing marketable blue carbon. <i>One Earth</i> , 2022, 5, 485-492. | 6.8 | 34 |
| 5 | Losses of Soil Organic Carbon with Deforestation in Mangroves of Madagascar. <i>Ecosystems</i> , 2021, 24, 1-19. | 3.4 | 39 |
| 6 | A question of standards: Adapting carbon and other PES markets to work for community seagrass conservation. <i>Marine Policy</i> , 2021, 129, 104574. | 3.2 | 15 |
| 7 | Laboratory exploration of mineral precipitates from Europa's subsurface ocean. <i>Journal of Applied Crystallography</i> , 2021, 54, 1455-1479. | 4.5 | 1 |
| 8 | The sediment carbon stocks of intertidal seagrass meadows in Scotland. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 258, 107442. | 2.1 | 19 |
| 9 | Blue carbon as a natural climate solution. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 826-839. | 29.7 | 261 |
| 10 | Mangrove carbon stocks and biomass partitioning in an extreme environment. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 244, 106940. | 2.1 | 23 |
| 11 | Climate action requires new accounting guidance and governance frameworks to manage carbon in shelf seas. <i>Nature Communications</i> , 2020, 11, 4599. | 12.8 | 35 |
| 12 | Decreasing carbonate load of seagrass leaves with increasing latitude. <i>Aquatic Botany</i> , 2019, 159, 103147. | 1.6 | 3 |
| 13 | The future of Blue Carbon science. <i>Nature Communications</i> , 2019, 10, 3998. | 12.8 | 406 |
| 14 | Fingerprinting Blue Carbon: Rationale and Tools to Determine the Source of Organic Carbon in Marine Depositional Environments. <i>Frontiers in Marine Science</i> , 2019, 6, . | 2.5 | 75 |
| 15 | The atmospheric carbon sequestration potential of man-made tidal lagoons. <i>Continental Shelf Research</i> , 2019, 181, 90-102. | 1.8 | 1 |
| 16 | Role of carbonate burial in Blue Carbon budgets. <i>Nature Communications</i> , 2019, 10, 1106. | 12.8 | 105 |
| 17 | The stoichiometric dissociation constants of carbonic acid in seawater brines from 298 to 267 K. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 220, 55-70. | 3.9 | 11 |
| 18 | A slow-cooling-rate in situ cell for long-duration studies of mineral precipitation in cold aqueous environments on Earth and other planetary bodies. <i>Journal of Applied Crystallography</i> , 2018, 51, 1197-1210. | 4.5 | 1 |

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|----|---|-----|-----------|
| 19 | The Calcium Carbonate Cycle in Seagrass Ecosystems. , 2018, , 107-119. | | 0 |
| 20 | Characterization of meta-Cresol Purple for spectrophotometric pH measurements in saline and hypersaline media at sub-zero temperatures. Scientific Reports, 2017, 7, 2481. | 3.3 | 18 |
| 21 | Measuring the role of seagrasses in regulating sediment surface elevation. Scientific Reports, 2017, 7, 11917. | 3.3 | 104 |
| 22 | Gypsum and hydrohalite dynamics in sea ice brines. Geochimica Et Cosmochimica Acta, 2017, 213, 17-34. | 3.9 | 8 |
| 23 | Macro-nutrient concentrations in Antarctic pack ice: Overall patterns and overlooked processes. Elementa, 2017, 5, . | 3.2 | 39 |
| 24 | Dynamics of estuarine drift macroalgae: growth cycles and contributions to sediments in shallow areas. Marine Ecology - Progress Series, 2017, 570, 41-55. | 1.9 | 10 |
| 25 | The effect of mirabilite precipitation on the absolute and practical salinities of sea ice brines. Marine Chemistry, 2016, 184, 21-31. | 2.3 | 11 |
| 26 | Mirabilite solubility in equilibrium sea ice brines. Geochimica Et Cosmochimica Acta, 2016, 182, 40-54. | 3.9 | 24 |
| 27 | Manganese in the shell of the bivalve <i>Mytilus edulis</i> : Seawater Mn or physiological control?. Geochimica Et Cosmochimica Acta, 2016, 194, 266-278. | 3.9 | 18 |
| 28 | The measurement of pH in saline and hypersaline media at sub-zero temperatures: Characterization of Tris buffers. Marine Chemistry, 2016, 184, 11-20. | 2.3 | 16 |
| 29 | Extreme 15N Depletion in Seagrasses. Estuaries and Coasts, 2016, 39, 1709-1723. | 2.2 | 8 |
| 30 | New facility for long-duration experiments at Diamond Light Source. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s422-s422. | 0.1 | 0 |
| 31 | An investigation of mineral dynamics in frozen seawater brines by direct measurement with synchrotron X-ray powder diffraction. Journal of Geophysical Research: Oceans, 2015, 120, 5686-5697. | 2.6 | 17 |
| 32 | Harnessing the climate mitigation, conservation and poverty alleviation potential of seagrasses: prospects for developing blue carbon initiatives and payment for ecosystem service programmes. Frontiers in Marine Science, 2015, 2, . | 2.5 | 65 |
| 33 | The puzzling existence of arid mangroves - what sustains Qatar mangroves?. Qscience Proceedings, 2015, , . | 0.0 | 0 |
| 34 | Seagrass meadows as a globally significant carbonate reservoir. Biogeosciences, 2015, 12, 4993-5003. | 3.3 | 104 |
| 35 | Ikaite Abundance Controlled by Porewater Phosphorus Level: Potential Links to Dust and Productivity. Journal of Geology, 2015, 123, 269-281. | 1.4 | 40 |
| 36 | The effect of water management on extensive aquaculture food webs in the reconstructed wetlands of the Doñana Natural Park, Southern Spain. Aquaculture, 2015, 448, 451-463. | 3.5 | 21 |

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|----|---|------|-----------|
| 37 | Flow regime in a restored wetland determines trophic links and species composition in the aquatic macroinvertebrate community. <i>Science of the Total Environment</i> , 2015, 503-504, 241-250. | 8.0 | 14 |
| 38 | Physical and bacterial controls on inorganic nutrients and dissolved organic carbon during a sea ice growth and decay experiment. <i>Marine Chemistry</i> , 2014, 166, 59-69. | 2.3 | 21 |
| 39 | Impact of vertical mixing on sea surface CO_2 in temperate seasonally stratified shelf seas. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 3868-3882. | 2.6 | 17 |
| 40 | Kinetics of ikaite precipitation and dissolution in seawater-derived brines at sub-zero temperatures to 265 K. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 199-211. | 3.9 | 25 |
| 41 | Outwelling from arid mangrove systems is sustained by inwelling of seagrass productivity. <i>Marine Ecology - Progress Series</i> , 2014, 507, 125-137. | 1.9 | 31 |
| 42 | Ikaite solubility in seawater-derived brines at 1atm and sub-zero temperatures to 265K. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 109, 241-253. | 3.9 | 30 |
| 43 | Assessing the capacity of seagrass meadows for carbon burial: Current limitations and future strategies. <i>Ocean and Coastal Management</i> , 2013, 83, 32-38. | 4.4 | 264 |
| 44 | Are mangroves in arid environments isolated systems? Life-history and evidence of dietary contribution from inwelling in a mangrove-resident shrimp species. <i>Estuarine, Coastal and Shelf Science</i> , 2013, 124, 56-63. | 2.1 | 26 |
| 45 | Sources of primary production supporting food webs in an arid coastal embayment. <i>Marine Biology</i> , 2012, 159, 1753-1762. | 1.5 | 14 |
| 46 | An ikaite record of late Holocene climate at the Antarctic Peninsula. <i>Earth and Planetary Science Letters</i> , 2012, 325-326, 108-115. | 4.4 | 39 |
| 47 | The potential of combined Mg/Ca and $\delta^{18}\text{O}$ measurements within the shell of the bivalve <i>Pecten maximus</i> to estimate seawater $\delta^{18}\text{O}$ composition. <i>Chemical Geology</i> , 2012, 291, 286-293. | 3.3 | 32 |
| 48 | The effect of biological activity, CaCO_3 mineral dynamics, and CO_2 degassing in the inorganic carbon cycle in sea ice in late winter-early spring in the Weddell Sea, Antarctica. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 27 |
| 49 | Seagrass ecosystems as a globally significant carbon stock. <i>Nature Geoscience</i> , 2012, 5, 505-509. | 12.9 | 1,406 |
| 50 | Sea ice contribution to the air-sea CO_2 exchange in the Arctic and Southern Oceans. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2011, 63, . | 1.6 | 30 |
| 51 | Decomposition of mangrove roots: Effects of location, nutrients, species identity and mix in a Kenyan forest. <i>Estuarine, Coastal and Shelf Science</i> , 2010, 88, 135-142. | 2.1 | 62 |
| 52 | Source, timing, frequency and flux of ice-rafted detritus to the Northeast Atlantic margin, testing the Heinrich precursor hypothesis. <i>Boreas</i> , 2010, 39, 576-591. | 2.4 | 17 |
| 53 | Seagrass sediments as a global carbon sink: Isotopic constraints. <i>Global Biogeochemical Cycles</i> , 2010, 24, . | 4.9 | 495 |
| 54 | Ion microprobe assessment of the heterogeneity of Mg/Ca, Sr/Ca and Mn/Ca ratios in <i>Pecten maximus</i> and <i>Mytilus edulis</i> (bivalvia) shell calcite precipitated at constant temperature. <i>Biogeosciences</i> , 2009, 6, 1209-1227. | 3.3 | 43 |

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|----|--|-----|-----------|
| 55 | Feeding on intertidal microbial mats by postlarval tiger shrimp, <i>Penaeus semisulcatus</i> De Haan. <i>Marine Biology</i> , 2009, 156, 2001-2009. | 1.5 | 13 |
| 56 | Response of coastal Antarctic phytoplankton to solar radiation and ammonium manipulation: An in situ mesocosm experiment. <i>Journal of Geophysical Research</i> , 2009, 114, . | 3.3 | 9 |
| 57 | Inorganic carbon removal and isotopic enrichment in Antarctic sea ice gap layers during early austral summer. <i>Marine Ecology - Progress Series</i> , 2009, 386, 15-27. | 1.9 | 26 |
| 58 | Marine production in the Congo-influenced SE Atlantic over the past 30,000 years: A novel dinoflagellate-cyst based transfer function approach. <i>Marine Micropaleontology</i> , 2008, 68, 198-222. | 1.2 | 42 |
| 59 | Stratification and the distribution of phytoplankton, nutrients, inorganic carbon, and sulfur in the surface waters of Weddell Sea leads. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 988-999. | 1.4 | 14 |
| 60 | Short-term biogenic particle flux under late spring sea ice in the western Weddell Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 1024-1039. | 1.4 | 17 |
| 61 | Calcium carbonate as ikaite crystals in Antarctic sea ice. <i>Geophysical Research Letters</i> , 2008, 35, . | 4.0 | 204 |
| 62 | Inter- and intra-specimen variability masks reliable temperature control on shell Mg/Ca ratios in laboratory- and field-cultured <i>Mytilus edulis</i> and <i>Pecten maximus</i> (bivalvia). <i>Biogeosciences</i> , 2008, 5, 1245-1258. | 3.3 | 46 |
| 63 | Biogeochemical composition of natural sea ice brines from the Weddell Sea during early austral summer. <i>Limnology and Oceanography</i> , 2007, 52, 1809-1823. | 3.1 | 77 |
| 64 | Feeding ecology of the grooved tiger shrimp <i>Penaeus semisulcatus</i> De Haan (Decapoda: Penaeidae) in inshore waters of Qatar, Arabian Gulf. <i>Marine Biology</i> , 2007, 150, 627-637. | 1.5 | 23 |
| 65 | Potential of ikaite to record the evolution of oceanic $\delta^{18}O$. <i>Geology</i> , 2006, 34, 497. | 4.4 | 29 |
| 66 | Environmental and biological controls on elemental (Mg/Ca, Sr/Ca and Mn/Ca) ratios in shells of the king scallop <i>Pecten maximus</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 5119-5133. | 3.9 | 144 |
| 67 | Using variation in the chemical and stable isotopic composition of <i>Zostera noltii</i> to assess nutrient dynamics in a temperate seagrass meadow. <i>Organic Geochemistry</i> , 2006, 37, 1343-1358. | 1.8 | 20 |
| 68 | Temporal and spatial variation of sulfide invasion in eelgrass (<i>Zostera marina</i>) as reflected by its sulfur isotopic composition. <i>Limnology and Oceanography</i> , 2006, 51, 2308-2318. | 3.1 | 71 |
| 69 | Role of microbial mats in Sulaibikhat Bay (Kuwait) mudflat food webs: evidence from $\delta^{13}C$ analysis. <i>Marine Ecology - Progress Series</i> , 2006, 308, 27-36. | 1.9 | 54 |
| 70 | Seasonal and spatial variation in the organic carbon and nitrogen concentration and their stable isotopic composition in <i>Zostera marina</i> (Denmark). <i>Limnology and Oceanography</i> , 2005, 50, 1084-1095. | 3.1 | 31 |
| 71 | Light-dependence of the metabolic balance of a highly productive Philippine seagrass community. <i>Journal of Experimental Marine Biology and Ecology</i> , 2005, 316, 55-67. | 1.5 | 29 |
| 72 | Nutrient dynamics and ecosystem metabolism in the Bay of Blanes (NW Mediterranean). <i>Biogeochemistry</i> , 2005, 73, 303-323. | 3.5 | 33 |

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|----|--|-----|-----------|
| 73 | The effect of acidification on the determination of organic carbon, total nitrogen and their stable isotopic composition in algae and marine sediment. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 1063-1068. | 1.5 | 171 |
| 74 | The effects of megafaunal burrows on radiotracer profiles and organic composition in deep-sea sediments: preliminary results from two sites in the bathyal north-east Atlantic. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005, 52, 1-13. | 1.4 | 19 |
| 75 | Sources of organic matter in seagrass-colonized sediments: A stable isotope study of the silt and clay fraction from <i>Posidonia oceanica</i> meadows in the western Mediterranean. <i>Organic Geochemistry</i> , 2005, 36, 949-961. | 1.8 | 51 |
| 76 | Mg/Ca, Sr/Ca, and stable-isotope ($\delta^{18}O$ and $\delta^{13}C$) ratio profiles from the fan mussel <i>Pinna nobilis</i> : Seasonal records and temperature relationships. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a. | 2.5 | 87 |
| 77 | Stable isotopic analyses of modern benthic foraminifera from seasonally stratified shelf seas: disequilibria and the 'seasonal effect'. <i>Holocene</i> , 2004, 14, 747-758. | 1.7 | 20 |
| 78 | Age, growth rate and season of recruitment of <i>Pinna nobilis</i> (L) in the Croatian Adriatic determined from Mg:Ca and Sr:Ca shell profiles. <i>Journal of Experimental Marine Biology and Ecology</i> , 2004, 299, 1-16. | 1.5 | 118 |
| 79 | Organic carbon sources to SE Asian coastal sediments. <i>Estuarine, Coastal and Shelf Science</i> , 2004, 60, 59-68. | 2.1 | 117 |
| 80 | Rates of organic carbon oxidation in deep sea sediments in the eastern North Atlantic from pore water profiles of O_2 and the $\delta^{13}C$ of dissolved inorganic carbon. <i>Marine Geology</i> , 2004, 212, 97-111. | 2.1 | 6 |
| 81 | Experimental evidence for carbonate precipitation and CO_2 degassing during sea ice formation. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1749-1761. | 3.9 | 128 |
| 82 | Community metabolism and carbon budget along a gradient of seagrass (<i>Cymodocea nodosa</i>) colonization. <i>Limnology and Oceanography</i> , 2004, 49, 1642-1651. | 3.1 | 97 |
| 83 | Surface ice and gap layers in Antarctic sea ice: highly productive habitats. <i>Marine Ecology - Progress Series</i> , 2004, 277, 1-12. | 1.9 | 49 |
| 84 | Sediment deposition and production in SE-Asia seagrass meadows. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 56, 909-919. | 2.1 | 121 |
| 85 | Isolation of ammonium-N as 1-sulfonato-iso-indole for measurement of $\delta^{15}N$. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 1099-1106. | 1.5 | 5 |
| 86 | On the relative constancy of iodate and total iodine concentrations accompanying phytoplankton blooms initiated in mesocosm experiments in Antarctica. <i>Limnology and Oceanography</i> , 2003, 48, 1569-1574. | 3.1 | 20 |
| 87 | The influence of shell growth rate on striae deposition in the scallop <i>Pecten maximus</i> . <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2002, 82, 621-623. | 0.8 | 19 |
| 88 | Isotopic partitioning between scallop shell calcite and seawater: effect of shell growth rate. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 1727-1737. | 3.9 | 74 |
| 89 | Experimental investigation into partitioning of stable isotopes between scallop (<i>Pecten maximus</i>) shell calcite and sea water. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2002, 185, 163-174. | 2.3 | 55 |
| 90 | Holocene shelf sea evolution offshore northeast England. <i>Marine Geology</i> , 2002, 191, 147-164. | 2.1 | 17 |

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|-----|--|-----|-----------|
| 91 | Dissolved organic carbon in sediments from the eastern North Atlantic. <i>Marine Chemistry</i> , 2002, 79, 37-47. | 2.3 | 28 |
| 92 | Particulate organic matter in Antarctic summer sea ice: concentration and stable isotopic composition. <i>Marine Ecology - Progress Series</i> , 2002, 238, 1-13. | 1.9 | 83 |
| 93 | Biogeochemistry of platelet ice: its influence on particle flux under fast ice in the Weddell Sea, Antarctica. , 2002, , 169-179. | | 0 |
| 94 | An autonomous benthic lander:. <i>Continental Shelf Research</i> , 2001, 21, 859-877. | 1.8 | 30 |
| 95 | Diet and association of <i>Pontonia pinnophylax</i> occurring in <i>Pinna nobilis</i> : insights from stable isotope analysis. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2001, 81, 177-178. | 0.8 | 30 |
| 96 | Dissolved carbohydrates in Antarctic sea ice. <i>Antarctic Science</i> , 2001, 13, 119-125. | 0.9 | 42 |
| 97 | Individual variability in diel vertical migration of a marine copepod: Why some individuals remain at depth when others migrate. <i>Limnology and Oceanography</i> , 2001, 46, 2050-2054. | 3.1 | 128 |
| 98 | Dissolved organic matter in Antarctic sea ice. <i>Annals of Glaciology</i> , 2001, 33, 297-303. | 1.4 | 98 |
| 99 | Behaviour of dissolved organic matter and inorganic nutrients during experimental sea-ice formation. <i>Annals of Glaciology</i> , 2001, 33, 317-321. | 1.4 | 75 |
| 100 | Different energy sources for three symbiont-dependent bivalve molluscs at the Logatchev hydrothermal site (Mid-Atlantic Ridge). <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2001, 81, 655-661. | 0.8 | 31 |
| 101 | Oxygen and carbon stable isotopic profiles of the fan mussel, <i>Pinna nobilis</i> , and reconstruction of sea surface temperatures in the Mediterranean. <i>Marine Biology</i> , 2001, 139, 1115-1124. | 1.5 | 60 |
| 102 | Biogeochemistry of platelet ice: its influence on particle flux under fast ice in the Weddell Sea, Antarctica. <i>Polar Biology</i> , 2001, 24, 486-496. | 1.2 | 44 |
| 103 | Food sources, behaviour, and distribution of hydrothermal vent shrimps at the Mid-Atlantic Ridge. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2000, 80, 485-499. | 0.8 | 113 |
| 104 | Age and growth of the fan mussel <i>Pinna nobilis</i> from south-east Spanish Mediterranean seagrass () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 1.5 | 110 |
| 105 | The Mediterranean climate as a template for Mediterranean marine ecosystems: the example of the northeast Spanish littoral. <i>Progress in Oceanography</i> , 1999, 44, 245-270. | 3.2 | 108 |
| 106 | Analysis of total and organic carbon and total nitrogen in settling oceanic particles and a marine sediment: an interlaboratory comparison. <i>Marine Chemistry</i> , 1998, 60, 203-216. | 2.3 | 84 |
| 107 | A technique for the in situ assessment of the vertical nitrogen flux caused by the diel vertical migration of zooplankton. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1997, 44, 1085-1089. | 1.4 | 11 |
| 108 | Variations in the isotopic composition of particulate organic carbon in surface waters along an 88°W transect from 67°S to 54°S. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1995, 42, 1109-1122. | 1.4 | 31 |

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|-----|---|-----|-----------|
| 109 | The physical and chemical environment and changes in community structure associated with bloom evolution: the Joint Global Flux Study North Atlantic Bloom Experiment. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1993, 40, 347-368. | 1.4 | 64 |
| 110 | Iodine diagenesis in pelagic deep-sea sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 2489-2504. | 3.9 | 124 |
| 111 | Iodine diagenesis in non-pelagic deep-sea sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 2505-2514. | 3.9 | 67 |
| 112 | Metal accumulation rates in northwest Atlantic pelagic sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1984, 48, 1935-1948. | 3.9 | 115 |