

John M Hayes

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

7,864
citations

172457

29
h-index

289244

40
g-index

42
all docs

42
docs citations

42
times ranked

6328
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Methane-consuming archaeobacteria in marine sediments. <i>Nature</i> , 1999, 398, 802-805. | 27.8 | 1,135 |
| 2 | A Serpentinite-Hosted Ecosystem: The Lost City Hydrothermal Field. <i>Science</i> , 2005, 307, 1428-1434. | 12.6 | 1,037 |
| 3 | The abundance of ^{13}C in marine organic matter and isotopic fractionation in the global biogeochemical cycle of carbon during the past 800 Ma. <i>Chemical Geology</i> , 1999, 161, 103-125. | 3.3 | 700 |
| 4 | Fractionation of hydrogen isotopes in lipid biosynthesis. <i>Organic Geochemistry</i> , 1999, 30, 1193-1200. | 1.8 | 512 |
| 5 | Dynamics of the Neoproterozoic carbon cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 8124-8129. | 7.1 | 493 |
| 6 | The carbon cycle and associated redox processes through time. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 931-950. | 4.0 | 389 |
| 7 | Consistent fractionation of ^{13}C in nature and in the laboratory: Growth-rate effects in some haptophyte algae. <i>Global Biogeochemical Cycles</i> , 1997, 11, 279-292. | 4.9 | 363 |
| 8 | Compound-specific D/H ratios of lipid biomarkers from sediments as a proxy for environmental and climatic conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 213-222. | 3.9 | 336 |
| 9 | Molecular and isotopic analysis of anaerobic methane-oxidizing communities in marine sediments. <i>Organic Geochemistry</i> , 2000, 31, 1685-1701. | 1.8 | 321 |
| 10 | Spatial and Temporal Offsets Between Proxy Records in a Sediment Drift. <i>Science</i> , 2002, 298, 1224-1227. | 12.6 | 257 |
| 11 | Quantitative Production of H_2 by Pyrolysis of Gas Chromatographic Effluents. <i>Analytical Chemistry</i> , 1998, 70, 5136-5141. | 6.5 | 221 |
| 12 | Isotopic exchange of carbon-bound hydrogen over geologic timescales 1 Associate editor: J. Horita. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1545-1559. | 3.9 | 213 |
| 13 | Signature Lipids and Stable Carbon Isotope Analyses of Octopus Spring Hyperthermophilic Communities Compared with Those of Aquificales Representatives. <i>Applied and Environmental Microbiology</i> , 2001, 67, 5179-5189. | 3.1 | 175 |
| 14 | Carbon isotopic fractionation associated with lipid biosynthesis by a cyanobacterium: Relevance for interpretation of biomarker records. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 5379-5389. | 3.9 | 150 |
| 15 | 3. Fractionation of Carbon and Hydrogen Isotopes in Biosynthetic Processes. , 2001, , 225-278. | | 150 |
| 16 | Mapping of C_4 plant input from North West Africa into North East Atlantic sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 3505-3513. | 3.9 | 136 |
| 17 | Determination of the H_3 Factor in Hydrogen Isotope Ratio Monitoring Mass Spectrometry. <i>Analytical Chemistry</i> , 2001, 73, 200-207. | 6.5 | 107 |
| 18 | An evaluation of ^{14}C age relationships between co-occurring foraminifera, alkenones, and total organic carbon in continental margin sediments. <i>Paleoceanography</i> , 2005, 20, n/a-n/a. | 3.0 | 101 |

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|----|--|-----|-----------|
| 19 | Extraordinary ¹³ C enrichment of diether lipids at the Lost City Hydrothermal Field indicates a carbon-limited ecosystem. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 102-118. | 3.9 | 100 |
| 20 | Correction of H ₃ +Contributions in Hydrogen Isotope Ratio Monitoring Mass Spectrometry. <i>Analytical Chemistry</i> , 2001, 73, 192-199. | 6.5 | 99 |
| 21 | Calculation of hydrogen isotopic fractionations in biogeochemical systems. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 593-597. | 3.9 | 85 |
| 22 | Hydrogen isotope fractionation in lipids of the methane-oxidizing bacterium <i>Methylococcus capsulatus</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 3955-3969. | 3.9 | 83 |
| 23 | Efficiency and Temperature Dependence of Water Removal by Membrane Dryers. <i>Analytical Chemistry</i> , 1997, 69, 911-918. | 6.5 | 82 |
| 24 | An isotopic biogeochemical study of Neoproterozoic and Early Cambrian sediments from the Centralian Superbasin, Australia. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 5391-5409. | 3.9 | 78 |
| 25 | Algal and archaeal polyisoprenoids in a recent marine sediment: Molecular isotopic evidence for anaerobic oxidation of methane. <i>Geochemistry, Geophysics, Geosystems</i> , 2001, 2, n/a-n/a. | 2.5 | 77 |
| 26 | Moving-Wire Device for Carbon Isotopic Analyses of Nanogram Quantities of Nonvolatile Organic Carbon. <i>Analytical Chemistry</i> , 2005, 77, 6519-6527. | 6.5 | 71 |
| 27 | Terminal Proterozoic mid-shelf benthic microbial mats in the Centralian Superbasin and their environmental significance. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 1345-1358. | 3.9 | 70 |
| 28 | Water-Induced Errors in Continuous-Flow Carbon Isotope Ratio Mass Spectrometry. <i>Analytical Chemistry</i> , 1998, 70, 2737-2744. | 6.5 | 44 |
| 29 | Organic Carbon Aging During Across-Shelf Transport. <i>Geophysical Research Letters</i> , 2018, 45, 8425-8434. | 4.0 | 43 |
| 30 | Isotopic order, biogeochemical processes, and earth history. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1691-1700. | 3.9 | 35 |
| 31 | Stable carbon-isotopic compositions of lipids isolated from the ammonia-oxidizing chemoautotroph <i>Nitrosomonas europaea</i> . <i>Organic Geochemistry</i> , 2008, 39, 1725-1734. | 1.8 | 30 |
| 32 | Energy in the dark: Fuel for life in the deep ocean and beyond. <i>Eos</i> , 2006, 87, 73. | 0.1 | 23 |
| 33 | Sedimentary sterols as biogeochemical indicators in the Southern Ocean. <i>Organic Geochemistry</i> , 2008, 39, 567-588. | 1.8 | 23 |
| 34 | Evidence for substantial intramolecular heterogeneity in the stable carbon isotopic composition of phytol in photoautotrophic organisms. <i>Organic Geochemistry</i> , 2008, 39, 135-146. | 1.8 | 19 |
| 35 | Mass spectra of sn -2-hydroxyarchaeol, a polar lipid biomarker for anaerobic methanotrophy. <i>Geochemistry, Geophysics, Geosystems</i> , 2000, 1, . | 2.5 | 18 |
| 36 | Phylogenetically specific separation of rRNA from prokaryotes for isotopic analysis. <i>Marine Chemistry</i> , 2004, 92, 295-306. | 2.3 | 18 |

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|----|---|------|-----------|
| 37 | Rapid analysis of ^{13}C in plant-wax-alkanes for reconstruction of terrestrial vegetation signals from aquatic sediments. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a. | 2.5 | 18 |
| 38 | Effects of biosynthesis and physiology on relative abundances and isotopic compositions of alkenones. <i>Geochemistry, Geophysics, Geosystems</i> , 2001, 2, n/a-n/a. | 2.5 | 9 |
| 39 | GEOCHEMISTRY: Enhanced: The Pathway of Carbon in Nature. <i>Science</i> , 2006, 312, 1605-1606. | 12.6 | 9 |
| 40 | Earth's Redox History. <i>Science</i> , 2011, 334, 1654-1655. | 12.6 | 6 |
| 41 | Citation for presentation of the 2003 Alfred E. Treibs award to Roger Summons. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, S6-S7. | 3.9 | 0 |