

# Tyler B Coplen

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92  
papers

9,801  
citations

40  
h-index

99  
g-index

104  
ext. papers

10,993  
ext. citations

5.3  
avg, IF

6.71  
L-index

#	Paper	IF	Citations
92	Guidelines and recommended terms for expression of stable-isotope-ratio and gas-ratio measurement results. <i>Rapid Communications in Mass Spectrometry</i> , <b>2011</b> , 25, 2538-60	2.2	1131
91	Comparison of stable isotope reference samples. <i>Nature</i> , <b>1983</b> , 302, 236-238	50.4	705
90	New guidelines for delta13C measurements. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 2439-41	7.8	639
89	New guidelines for reporting stable hydrogen, carbon, and oxygen isotope-ratio data. <i>Geochimica Et Cosmochimica Acta</i> , <b>1996</b> , 60, 3359-3360	5.5	629
88	Reporting of stable hydrogen, carbon, and oxygen isotopic abundances (Technical Report). <i>Pure and Applied Chemistry</i> , <b>1994</b> , 66, 273-276	2.1	604
87	Distribution of oxygen-18 and deuterium in river waters across the United States. <i>Hydrological Processes</i> , <b>2001</b> , 15, 1363-1393	3.3	543
86	Assessment of international reference materials for isotope-ratio analysis (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2014</b> , 86, 425-467	2.1	369
85	Isotopic compositions of the elements 2013 (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2016</b> , 88, 293-306	2.1	362
84	Atomic weights of the elements 2013 (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2016</b> , 88, 265-291	2.1	357
83	Isotope-abundance variations of selected elements (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2002</b> , 74, 1987-2017	2.1	352
82	Atomic weights of the elements 2011 (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2013</b> , 85, 1047-1078	2.1	314
81	Normalization of oxygen and hydrogen isotope data. <i>Chemical Geology: Isotope Geoscience Section</i> , <b>1988</b> , 72, 293-297		238
80	Calibration of the calcite-water oxygen-isotope geothermometer at Devils Hole, Nevada, a natural laboratory. <i>Geochimica Et Cosmochimica Acta</i> , <b>2007</b> , 71, 3948-3957	5.5	233
79	Atomic weights of the elements 2009 (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2010</b> , 83, 359-396	2.1	200
78	Correction for the 17O interference in (13C) measurements when analyzing CO2 with stable isotope mass spectrometry (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2010</b> , 82, 1719-1733	2.1	199
77	Improvements in the gaseous hydrogen-water equilibration technique for hydrogen isotope-ratio analysis. <i>Analytical Chemistry</i> , <b>1991</b> , 63, 910-912	7.8	174
76	Stable isotope deltas: tiny, yet robust signatures in nature. <i>Isotopes in Environmental and Health Studies</i> , <b>2012</b> , 48, 393-409	1.5	161

75	Two new organic reference materials for delta13C and delta15N measurements and a new value for the delta13C of NBS 22 oil. <i>Rapid Communications in Mass Spectrometry</i> , <b>2003</b> , 17, 2483-7	2.2	154
74	Discontinuance of SMOW and PDB. <i>Nature</i> , <b>1995</b> , 375, 285-285	50.4	143
73	Comprehensive inter-laboratory calibration of reference materials for delta18O versus VSMOW using various on-line high-temperature conversion techniques. <i>Rapid Communications in Mass Spectrometry</i> , <b>2009</b> , 23, 999-1019	2.2	142
72	The relative contributions of summer and cool-season precipitation to groundwater recharge, Spring Mountains, Nevada, USA. <i>Hydrogeology Journal</i> , <b>1998</b> , 6, 77-93	3.1	120
71	Atomic weights of the elements 1995 (Technical Report). <i>Pure and Applied Chemistry</i> , <b>1996</b> , 68, 2339-2359	2.1	115
70	Organic Reference Materials for Hydrogen, Carbon, and Nitrogen Stable Isotope-Ratio Measurements: Caffeines, n-Alkanes, Fatty Acid Methyl Esters, Glycines, L-Valines, Polyethylenes, and Oils. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 4294-302	7.8	91
69	Atomic weights of the elements 1999 (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2001</b> , 73, 667-683	2.1	91
68	Normalization of stable isotope data for carbonate minerals: Implementation of IUPAC guidelines. <i>Geochimica Et Cosmochimica Acta</i> , <b>2015</b> , 158, 276-289	5.5	80
67	Beyond temperature: Clumped isotope signatures in dissolved inorganic carbon species and the influence of solution chemistry on carbonate mineral composition. <i>Geochimica Et Cosmochimica Acta</i> , <b>2015</b> , 166, 344-371	5.5	75
66	Devils Hole, Nevada, $\delta^{18}\text{O}$ record extended to the mid-Holocene. <i>Quaternary Research</i> , <b>2006</b> , 66, 202-212	2.9	72
65	Stable hydrogen and oxygen isotope ratios for selected sites of the U.S. Geological Survey's NASQAN and benchmark surface-water networks. <i>US Geological Survey Open-File Report</i> ,		69
64	Reporting of relative sulfur isotope-ratio data (Technical Report). <i>Pure and Applied Chemistry</i> , <b>1997</b> , 69, 293-296	2.1	63
63	On-line hydrogen-isotope measurements of organic samples using elemental chromium: an extension for high temperature elemental-analyzer techniques. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 5198-2057	7.8	62
62	Extreme changes in stable hydrogen isotopes and precipitation characteristics in a landfalling Pacific storm. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	62
61	Investigation of preparation techniques for $\delta^2\text{H}$ analysis of keratin materials and a proposed analytical protocol. <i>Rapid Communications in Mass Spectrometry</i> , <b>2011</b> , 25, 2209-22	2.2	57
60	Approaches for achieving long-term accuracy and precision of $\delta^{18}\text{O}$ and $\delta^2\text{H}$ for waters analyzed using laser absorption spectrometers. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 1123-31	10.3	56
59	Investigating surface water-groundwater interaction using stable isotope ratios of water. <i>Journal of Hydrology</i> , <b>2005</b> , 302, 154-172	6	56
58	USGS42 and USGS43: human-hair stable hydrogen and oxygen isotopic reference materials and analytical methods for forensic science and implications for published measurement results. <i>Forensic Science International</i> , <b>2012</b> , 214, 135-41	2.6	54

57	Spatial, seasonal, and source variability in the stable oxygen and hydrogen isotopic composition of tap waters throughout the USA. <i>Hydrological Processes</i> , <b>2014</b> , 28, 5382-5422	3.3	48
56	Novel silver-tubing method for quantitative introduction of water into high-temperature conversion systems for stable hydrogen and oxygen isotopic measurements. <i>Rapid Communications in Mass Spectrometry</i> , <b>2010</b> , 24, 1821-7	2.2	46
55	A new organic reference material, l-glutamic acid, USGS41a, for $(^{13}\text{C})$ and $(^{15}\text{N})$ measurements - a replacement for USGS41. <i>Rapid Communications in Mass Spectrometry</i> , <b>2016</b> , 30, 859-66	2.2	44
54	LIMS for Lasers 2015 for achieving long-term accuracy and precision of $(^2\text{H})$ , $(^{17}\text{O})$ , and $(^{18}\text{O})$ of waters using laser absorption spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2015</b> , 29, 2122-30	2.3	43
53	Unnatural isotopic composition of lithium reagents. <i>Analytical Chemistry</i> , <b>1997</b> , 69, 4076-8	7.8	39
52	IUPAC Periodic Table of the Elements and Isotopes (IPTEI) for the Education Community (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2018</b> , 90, 1833-2092	2.1	38
51	Improved online $(^{18}\text{O})$ measurements of nitrogen- and sulfur-bearing organic materials and a proposed analytical protocol. <i>Rapid Communications in Mass Spectrometry</i> , <b>2011</b> , 25, 2049-58	2.2	36
50	Dual clumped isotope thermometry resolves kinetic biases in carbonate formation temperatures. <i>Nature Communications</i> , <b>2020</b> , 11, 4005	17.4	33
49	Evaluation of the $^{34}\text{S}/^{32}\text{S}$ ratio of Soufre de Lacq elemental sulfur isotopic reference material by continuous flow isotope-ratio mass spectrometry. <i>Chemical Geology</i> , <b>2003</b> , 199, 183-187	4.2	32
48	Isotope-abundance variations and atomic weights of selected elements: 2016 (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2016</b> , 88, 1203-1224	2.1	32
47	New biotite and muscovite isotopic reference materials, USGS57 and USGS58, for $(^2\text{H})$ measurements - a replacement for NBS 30. <i>Chemical Geology</i> , <b>2017</b> , 467, 89-99	4.2	29
46	Isotopic disproportionation during hydrogen isotopic analysis of nitrogen-bearing organic compounds. <i>Rapid Communications in Mass Spectrometry</i> , <b>2015</b> , 29, 878-84	2.2	28
45	Conceptual model of water resources in the Kabul Basin, Afghanistan. <i>USGS Scientific Investigations Report</i> ,		27
44	Determination of the $\delta(^2\text{H}/^1\text{H})$ of Water: RSIL Lab Code 1574. <i>US Geological Survey Techniques and Methods</i> ,		27
43	History of the recommended atomic-weight values from 1882 to 1997: A comparison of differences from current values to the estimated uncertainties of earlier values (Technical Report). <i>Pure and Applied Chemistry</i> , <b>1998</b> , 70, 237-257	2.1	26
42	Determination of the $\delta(^{18}\text{O}/^{16}\text{O})$ of Water: RSIL Lab Code 489. <i>US Geological Survey Techniques and Methods</i> ,		26
41	Optimization of on-line hydrogen stable isotope ratio measurements of halogen- and sulfur-bearing organic compounds using elemental analyzer-chromium/high-temperature conversion isotope ratio mass spectrometry (EA-Cr/HTC-IRMS). <i>Rapid Communications in Mass Spectrometry</i> , <b>2017</b> , 31, 475-484	2.2	24
40	Evidence for high salinity of Early Cretaceous sea water from the Chesapeake Bay crater. <i>Nature</i> , <b>2013</b> , 503, 252-6	50.4	24

39	Categorisation of northern California rainfall for periods with and without a radar brightband using stable isotopes and a novel automated precipitation collector. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2015</b> , 67, 28574	3.3	21
38	A guide for the laboratory information management system (LIMS) for light stable isotopes--Versions 7 and 8. <i>US Geological Survey Open-File Report</i> ,		20
37	A revision in hydrogen isotopic composition of USGS42 and USGS43 human-hair stable isotopic reference materials for forensic science. <i>Forensic Science International</i> , <b>2016</b> , 266, 222-225	2.6	19
36	Preliminary assessment of stable nitrogen and oxygen isotopic composition of USGS51 and USGS52 nitrous oxide reference gases and perspectives on calibration needs. <i>Rapid Communications in Mass Spectrometry</i> , <b>2018</b> , 32, 1207-1214	2.2	19
35	Applying the silver-tube introduction method for thermal conversion elemental analyses and a new $\delta(2)H$ value for NBS 22 oil. <i>Rapid Communications in Mass Spectrometry</i> , <b>2010</b> , 24, 2269-76	2.2	17
34	Three whole-wood isotopic reference materials, USGS54, USGS55, and USGS56, for $\delta H$ , $\delta^{18}O$ , $\delta^{13}C$ , and $\delta^{15}N$ measurements. <i>Chemical Geology</i> , <b>2016</b> , 442, 47-53	4.2	17
33	Caution on the use of NBS 30 biotite for hydrogen-isotope measurements with on-line high-temperature conversion systems. <i>Rapid Communications in Mass Spectrometry</i> , <b>2014</b> , 28, 1987-94	2.2	16
32	A double-focusing double-collecting mass spectrometer for light stable isotope ratio analysis. <i>International Journal of Mass Spectrometry and Ion Physics</i> , <b>1973</b> , 11, 37-40		16
31	Quality assurance and quality control in light stable isotope laboratories: a case study of Rio Grande, Texas, water samples. <i>Isotopes in Environmental and Health Studies</i> , <b>2009</b> , 45, 126-34	1.5	15
30	An improved technique for the $2H/1H$ analysis of urines from diabetic volunteers. <i>Biological Mass Spectrometry</i> , <b>1994</b> , 23, 437-9		13
29	Calibration of carbonate-water triple oxygen isotope fractionation: Seeing through diagenesis in ancient carbonates. <i>Geochimica Et Cosmochimica Acta</i> , <b>2020</b> , 288, 369-388	5.5	13
28	USGS44, a new high-purity calcium carbonate reference material for $\delta^{13}C$ measurements. <i>Rapid Communications in Mass Spectrometry</i> , <b>2021</b> , 35, e9006	2.2	10
27	Lake Louise water (USGS47): a new isotopic reference water for stable hydrogen and oxygen isotope measurements. <i>Rapid Communications in Mass Spectrometry</i> , <b>2014</b> , 28, 351-4	2.2	9
26	Recognizing the potential pitfalls of hydrogen isotopic analysis of keratins with steam equilibration to infer origins of wildlife, food, and people. <i>Rapid Communications in Mass Spectrometry</i> , <b>2013</b> , 27, 2569 <sup>2.2</sup>	2.2	9
25	Pressure control of a gas by a calculator-operated mercury piston. <i>Analytical Chemistry</i> , <b>1981</b> , 53, 940-942.8	2.8	7
24	USGS48 Puerto Rico precipitation - a new isotopic reference material for $\delta H$ and $\delta^{18}O$ measurements of water. <i>Isotopes in Environmental and Health Studies</i> , <b>2014</b> , 50, 442-7	1.5	6
23	Stable hydrogen and oxygen isotope ratios for selected sites of the National Oceanic and Atmospheric Administration's Atmospheric Integrated Research Monitoring Network (AIRMon). <i>US Geological Survey Open-File Report</i> ,		6
22	Clarification of the term 'normal material' used for standard atomic weights (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2018</b> , 90, 1221-1224	2.1	6

21	Antarctic Ice-Core Water (USGS49) [A New Isotopic Reference Material for $\delta^2\text{H}$ and $\delta^{18}\text{O}$ Measurements of Water. <i>Geostandards and Geoanalytical Research</i> , <b>2017</b> , 41, 63-68	3.6	5
20	A manual for a Laboratory Information Management System (LIMS) for light stable isotopes. <i>US Geological Survey Open-File Report</i> ,		5
19	Clarifying Atomic Weights: A 2016 Four-Figure Table of Standard and Conventional Atomic Weights. <i>Journal of Chemical Education</i> , <b>2017</b> , 94, 311-319	2.4	3
18	Review of footnotes and annotations to the 1949-2013 tables of standard atomic weights and tables of isotopic compositions of the elements (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2016</b> , 88, 689-699	2.1	3
17	Biscayne aquifer drinking water (USGS45): a new isotopic reference material for $\delta^2\text{H}$ and $\delta^{18}\text{O}$ measurements of water. <i>Rapid Communications in Mass Spectrometry</i> , <b>2014</b> , 28, 2031-4	2.2	3
16	A new isotopic reference material for stable hydrogen and oxygen isotope-ratio measurements of water - USGS50 Lake Kyoga Water. <i>Rapid Communications in Mass Spectrometry</i> , <b>2015</b> , 29, 2078-82	2.2	3
15	The $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of tap water from 349 sites in the United States and selected territories. <i>Data Series</i> ,		3
14	Food Matrix Reference Materials for Hydrogen, Carbon, Nitrogen, Oxygen, and Sulfur Stable Isotope-Ratio Measurements: Collagens, Flours, Honeys, and Vegetable Oils. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 10852-10864	5.7	3
13	Standard atomic weights of the elements 2021 (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2022</b> ,	2.1	3
12	ConfChem Conference on A Virtual Colloquium to Sustain and Celebrate IYC 2011 Initiatives in Global Chemical Education: The IUPAC Periodic Table of Isotopes for the Educational Community. <i>Journal of Chemical Education</i> , <b>2013</b> , 90, 1550-1551	2.4	2
11	USGS46 Greenland Ice Core Water [A New Isotopic Reference Material for $\delta^2\text{H}$ and $\delta^{18}\text{O}$ Measurements of Water. <i>Geostandards and Geoanalytical Research</i> , <b>2013</b> , 38, n/a-n/a	3.6	2
10	Variation of lead isotopic composition and atomic weight in terrestrial materials (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2021</b> , 93, 155-166	2.1	2
9	A manual for a laboratory information management system (LIMS) for light stable isotopes. <i>US Geological Survey Open-File Report</i> ,		2
8	Methods of the Reston Stable Isotope Laboratory (RSIL). <i>US Geological Survey Techniques and Methods</i> ,		2
7	Determination of the $\delta^{34}\text{S}$ of sulfate in water; RSIL lab code 1951. <i>US Geological Survey Techniques and Methods</i> ,		2
6	Determination of the $\delta^{15}\text{N}$ of nitrate in water; RSIL lab code 2899. <i>US Geological Survey Techniques and Methods</i> ,		2
5	Determination of the $\delta^{13}\text{C}$ of dissolved inorganic carbon in water; RSIL lab code 1710. <i>US Geological Survey Techniques and Methods</i> ,i-28		2
4	Devils Hole Calcite Was Precipitated at $\approx 1^\circ\text{C}$ Stable Aquifer Temperatures During the Last Half Million Years. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093257	4.9	2

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|---|--|------|---|
| 3 | The Table of Standard Atomic Weights-an exercise in consensus. <i>Rapid Communications in Mass Spectrometry</i> , <b>2020</b> , e8864  | 2.2  | 1 |
| 2 | Caution on the use of liquid nitrogen traps in stable hydrogen isotope-ratio mass spectrometry. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 7849-51  | 7.8  | 1 |
| 1 | Insights on Geochemical, Isotopic, and Volumetric Compositions of Produced Water from Hydraulically Fractured Williston Basin Oil Wells. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 10025-10034 | 10.3 | 1 |