

Tyler B Coplen

List of Publications by Year in descending order

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81
papers

12,373
citations

61984

43
h-index

58581

82
g-index

104
all docs

104
docs citations

104
times ranked

11617
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines and recommended terms for expression of stable isotope ratio and gas ratio measurement results. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 2538-2560.	1.5	1,404
2	Comparison of stable isotope reference samples. <i>Nature</i> , 1983, 302, 236-238.	27.8	852
3	New Guidelines for ^{13}C Measurements. <i>Analytical Chemistry</i> , 2006, 78, 2439-2441.	6.5	762
4	New guidelines for reporting stable hydrogen, carbon, and oxygen isotope-ratio data. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 3359-3360.	3.9	740
5	Reporting of stable hydrogen, carbon, and oxygen isotopic abundances (Technical Report). <i>Pure and Applied Chemistry</i> , 1994, 66, 273-276.	1.9	697
6	Distribution of oxygen-18 and deuterium in river waters across the United States. <i>Hydrological Processes</i> , 2001, 15, 1363-1393.	2.6	660
7	Isotopic compositions of the elements 2013 (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2016, 88, 293-306.	1.9	534
8	Atomic weights of the elements 2013 (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2016, 88, 265-291.	1.9	518
9	Assessment of international reference materials for isotope-ratio analysis (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2014, 86, 425-467.	1.9	491
10	Isotope-abundance variations of selected elements (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2002, 74, 1987-2017.	1.9	386
11	Atomic weights of the elements 2011 (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2013, 85, 1047-1078.	1.9	348
12	Normalization of oxygen and hydrogen isotope data. <i>Chemical Geology: Isotope Geoscience Section</i> , 1988, 72, 293-297.	0.6	323
13	Improvements in the gaseous hydrogen-water equilibration technique for hydrogen isotope-ratio analysis. <i>Analytical Chemistry</i> , 1991, 63, 910-912.	6.5	282
14	Calibration of the calcite-water oxygen-isotope geothermometer at Devils Hole, Nevada, a natural laboratory. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3948-3957.	3.9	270
15	Correction for the ^{17}O interference in ^{13}C measurements when analyzing CO_2 with stable isotope mass spectrometry (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2010, 82, 1719-1733.	1.9	268
16	Atomic weights of the elements 2009 (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2010, 83, 359-396.	1.9	225
17	Stable isotope deltas: tiny, yet robust signatures in nature. <i>Isotopes in Environmental and Health Studies</i> , 2012, 48, 393-409.	1.0	216
18	Two new organic reference materials for ^{13}C and ^{15}N measurements and a new value for the ^{13}C of NBS 22 oil. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2483-2487.	1.5	190

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19	Discontinuance of SMOW and PDB. <i>Nature</i> , 1995, 375, 285-285.	27.8	180
20	Comprehensive inter-laboratory calibration of reference materials for ^{18}O versus VSMOW using various on-line high-temperature conversion techniques. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 999-1019.	1.5	167
21	After two decades a second anchor for the VPDB ^{13}C scale. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 3165-3166.	1.5	147
22	Atomic weights of the elements 1995 (Technical Report). <i>Pure and Applied Chemistry</i> , 1996, 68, 2339-2359.	1.9	139
23	The relative contributions of summer and cool-season precipitation to groundwater recharge, Spring Mountains, Nevada, USA. <i>Hydrogeology Journal</i> , 1998, 6, 77-93.	2.1	139
24	Organic Reference Materials for Hydrogen, Carbon, and Nitrogen Stable Isotope-Ratio Measurements: Caffeines, <i>n</i> -Alkanes, Fatty Acid Methyl Esters, Glycines, Valines, Polyethylenes, and Oils. <i>Analytical Chemistry</i> , 2016, 88, 4294-4302.	6.5	126
25	Normalization of stable isotope data for carbonate minerals: Implementation of IUPAC guidelines. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 158, 276-289.	3.9	116
26	Atomic weights of the elements 1999 (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2001, 73, 667-683.	1.9	105
27	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> , 2015, 166, 344-371.	3.9	104
28	Devils Hole, Nevada, ^{18}O record extended to the mid-Holocene. <i>Quaternary Research</i> , 2006, 66, 202-212.	1.7	80
29	On-Line Hydrogen-Isotope Measurements of Organic Samples Using Elemental Chromium: An Extension for High Temperature Elemental-Analyzer Techniques. <i>Analytical Chemistry</i> , 2015, 87, 5198-5205.	6.5	77
30	Reporting of relative sulfur isotope-ratio data (Technical Report). <i>Pure and Applied Chemistry</i> , 1997, 69, 293-296.	1.9	74
31	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> , 2012, 214, 135-141.	2.2	73
32	Investigating surface water-groundwater interaction using stable isotope ratios of water. <i>Journal of Hydrology</i> , 2005, 302, 154-172.	5.4	72
33	Extreme changes in stable hydrogen isotopes and precipitation characteristics in a landfalling Pacific storm. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	71
34	Spatial, seasonal, and source variability in the stable oxygen and hydrogen isotopic composition of tap waters throughout the USA. <i>Hydrological Processes</i> , 2014, 28, 5382-5422.	2.6	71
35	Investigation of preparation techniques for ^2H analysis of keratin materials and a proposed analytical protocol. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 2209-2222.	1.5	70
36	Dual clumped isotope thermometry resolves kinetic biases in carbonate formation temperatures. <i>Nature Communications</i> , 2020, 11, 4005.	12.8	70

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37	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 & Technology</i> , 2014, 48, 1123-1131.	10.0	69
38	IUPAC Periodic Table of the Elements and Isotopes (IPTEI) for the Education Community (IUPAC) Tj ETQq0 0 0 rgBT, /Overlock_10 Tf 50 7	1.9	66
39	LIMS for Lasers 2015 for achieving long-term accuracy and precision of $\delta^2\text{H}$, $\delta^{17}\text{O}$, and $\delta^{18}\text{O}$ of waters using laser absorption spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 2122-2130.	1.5	62
40	Standard atomic weights of the elements 2021 (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2022, 94, 573-600.	1.9	57
41	A new organic reference material, $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ measurements a replacement for USGS41. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 859-866.	1.5	54
42	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> , 2010, 24, 1821-1827.	1.5	52
43	Isotope-abundance variations and atomic weights of selected elements: 2016 (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2016, 88, 1203-1224.	1.9	46
44	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> , 2003, 199, 183-187.	3.3	44
45	Unnatural Isotopic Composition of Lithium Reagents. <i>Analytical Chemistry</i> , 1997, 69, 4076-4078.	6.5	43
46	Improved online $\delta^{18}\text{O}$ measurements of nitrogen- and sulfur-bearing organic materials and a proposed analytical protocol. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 2049-2058.	1.5	42
47	New biotite and muscovite isotopic reference materials, USGS57 and USGS58, for $\delta^2\text{H}$ measurements a replacement for NBS 30. <i>Chemical Geology</i> , 2017, 467, 89-99.	3.3	41
48	Optimization of online 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> , 2017, 31, 475-484.	1.5	34
49	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> , 1998, 70, 237-257.	1.9	32
50	Isotopic disproportionation during hydrogen isotopic analysis of nitrogen-bearing organic compounds. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 878-884.	1.5	31
51	Evidence for high salinity of Early Cretaceous sea water from the Chesapeake Bay crater. <i>Nature</i> , 2013, 503, 252-256.	27.8	29
52	Calibration of carbonate-water triple oxygen isotope fractionation: Seeing through diagenesis in ancient carbonates. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 288, 369-388.	3.9	28
53	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> , 2022, 67, 28574.	1.6	26
54	A revision in hydrogen isotopic composition of USGS42 and USGS43 human-hair stable isotopic reference materials for forensic science. <i>Forensic Science International</i> , 2016, 266, 222-225.	2.2	25

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55	A double-focusing double-collecting mass spectrometer for light stable isotope ratio analysis. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1973, 11, 37-40.	1.3	23
56	Three whole-wood isotopic reference materials, USGS54, USGS55, and USGS56, for $\delta^2\text{H}$, $\delta^{18}\text{O}$, $\delta^{13}\text{C}$, and $\delta^{15}\text{N}$ measurements. <i>Chemical Geology</i> , 2016, 442, 47-53.	3.3	22
57	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> , 2018, 32, 1207-1214.	1.5	21
58	Applying the silver-tube introduction method for thermal conversion elemental analyses and a new $\delta^2\text{H}$ value for NBS 22 oil. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 2269-2276.	1.5	20
59	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> , 2014, 28, 1987-1994.	1.5	20
60	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> , 2020, 68, 10852-10864.	5.2	18
61	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> , 2009, 45, 126-134.	1.0	16
62	USGS44, a new high-purity calcium carbonate reference material for $\delta^{13}\text{C}$ measurements. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e9006.	1.5	16
63	An improved technique for the $\delta^2\text{H}/\delta^1\text{H}$ analysis of urines from diabetic volunteers. <i>Biological Mass Spectrometry</i> , 1994, 23, 437-439.	0.5	15
64	Pressure control of a gas by a calculator-operated mercury piston. <i>Analytical Chemistry</i> , 1981, 53, 940-942.	6.5	11
65	Lake Louise Water (USGS47): A new isotopic reference water for stable hydrogen and oxygen isotope measurements. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 351-354.	1.5	10
66	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> , 2013, 27, 2569-2569.	1.5	9
67	USGS48 Puerto Rico precipitation – a new isotopic reference material for $\delta^2\text{H}$ and $\delta^{18}\text{O}$ measurements of water. <i>Isotopes in Environmental and Health Studies</i> , 2014, 50, 442-447.	1.0	7
68	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> , 2017, 41, 63-68.	3.1	7
69	Clarification of the term “normal material” used for standard atomic weights (IUPAC Technical) Tj ETQq1 1 0.784314 rgBT /Overbo	1.9	7
70	Devils Hole Calcite Was Precipitated at $\pm 1^\circ\text{C}$ Stable Aquifer Temperatures During the Last Half Million Years. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093257.	4.0	6
71	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> , 2014, 38, 153-157.	3.1	5
72	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> , 2014, 28, 2031-2034.	1.5	5

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73	A new isotopic reference material for stable hydrogen and oxygen isotope ratio measurements of water – USGS50 Lake Kyoga Water. Rapid Communications in Mass Spectrometry, 2015, 29, 2078-2082.	1.5	5
74	Clarifying Atomic Weights: A 2016 Four-Figure Table of Standard and Conventional Atomic Weights. Journal of Chemical Education, 2017, 94, 311-319.	2.3	5
75	Insights on Geochemical, Isotopic, and Volumetric Compositions of Produced Water from Hydraulically Fractured Williston Basin Oil Wells. Environmental Science & Technology, 2021, 55, 10025-10034.	10.0	4
76	Variation of lead isotopic composition and atomic weight in terrestrial materials (IUPAC Technical Report). Pure and Applied Chemistry, 2019, 91, 1075-1084.	1.9	4
77	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). Pure and Applied Chemistry, 2016, 88, 689-699.	1.9	3
78	The Table of Standard Atomic Weights—An exercise in consensus. Rapid Communications in Mass Spectrometry, 2022, 36, e8864.	1.5	3
79	Caution on the Use of Liquid Nitrogen Traps in Stable Hydrogen Isotope-Ratio Mass Spectrometry. Analytical Chemistry, 2010, 82, 7849-7851.	6.5	2
80	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. Journal of Chemical Education, 2013, 90, 1550-1551.	2.3	2
81	Updated Atomic Weights: Time to Review Our Table. ChemistryViews, 0, , .	0.0	1