Thomas M Johnson

List of Publications by Year
in descending order

78	4,628	66343	98798
papers	citations	42 h-index	67 g-index

79	79	79	3081
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chromium Isotopes and the Fate of Hexavalent Chromium in the Environment. Science, 2002, 295, 2060-2062.	12.6	423
2	Groundwater Age and Groundwater Age Dating. Annual Review of Earth and Planetary Sciences, 2008, 36, 121-152.	11.0	240
3	Selenium isotope ratios as indicators of selenium sources and oxyanion reduction. Geochimica Et Cosmochimica Acta, 1999, 63, 2775-2783.	3.9	150
4	Using Chromium Stable Isotope Ratios To Quantify Cr(VI) Reduction:Â Lack of Sorption Effects. Environmental Science & Technology, 2004, 38, 3604-3607.	10.0	149
5	Microbial mass-dependent fractionation of chromium isotopes. Geochimica Et Cosmochimica Acta, 2008, 72, 3631-3641.	3.9	119
6	Uranium isotopic fractionation factors during U(VI) reduction by bacterial isolates. Geochimica Et Cosmochimica Acta, 2014, 136, 100-113.	3.9	112
7	Fractionation of selenium isotopes during bacterial respiratory reduction of selenium oxyanions. Geochimica Et Cosmochimica Acta, 2000, 64, 3701-3709.	3.9	111
8	Selenium isotope fractionation during reduction by Fe(II)-Fe(III) hydroxide-sulfate (green rust). Geochimica Et Cosmochimica Acta, 2003, 67, 413-419.	3.9	107
9	Cr Stable Isotopes As Indicators of Cr(VI) Reduction in Groundwater: A Detailed Time-Series Study of a Point-Source Plume. Environmental Science & Technology, 2010, 44, 1043-1048.	10.0	105
10	Effective Isotopic Fractionation Factors for Solute Removal by Reactive Sediments: A Laboratory Microcosm and Slurry Study. Environmental Science & Technology, 2008, 42, 7850-7855.	10.0	101
11	The isotopic composition of authigenic chromium in anoxic marine sediments: A case study from the Cariaco Basin. Earth and Planetary Science Letters, 2014, 407, 9-18.	4.4	99
12	Interpretation of isotopic data in groundwater-rock systems: Model development and application to Sr isotope data from Yucca Mountain. Water Resources Research, 1994, 30, 1571-1587.	4.2	98
13	Chromium isotope fractionation factors for reduction of Cr(VI) by aqueous Fe(II) and organic molecules. Geochimica Et Cosmochimica Acta, 2012, 89, 190-201.	3.9	96
14	Variations in 238U/235U in uranium ore deposits: Isotopic signatures of the U reduction process?. Geology, 2009, 37, 611-614.	4.4	95
15	Uranium ²³⁸U/²³⁵U Isotope Ratios as Indicators of Reduction: Results from an in situ Biostimulation Experiment at Rifle, Colorado, U.S.A.. Environmental Science & Technology, 2010, 44, 5927-5933.	10.0	95
16	A review of mass-dependent fractionation of selenium isotopes and implications for other heavy stable isotopes. Chemical Geology, 2004, 204, 201-214.	3.3	93
17	Determination of Hexavalent Chromium Reduction Using Cr Stable Isotopes: Isotopic Fractionation Factors for Permeable Reactive Barrier Materials. Environmental Science & Technology, 2012, 46, 5353-5360.	10.0	87
18	Stable isotope fractionation of selenium by natural microbial consortia. Chemical Geology, 2003, 195, 119-129.	3.3	81

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19	Selenium as paleo-oceanographic proxy: A first assessment. Geochimica Et Cosmochimica Acta, 2012, 89, 302-317.	3.9	80
20	Selenium sorption and isotope fractionation: Iron(III) oxides versus iron(II) sulfides. Chemical Geology, 2013, 342, 21-28.	3.3	74
21	Paradox of groundwater age. Geology, 2002, 30, 107.	4.4	71
22	Environmental Impacts of the Tennessee Valley Authority Kingston Coal Ash Spill. 1. Source Apportionment Using Mercury Stable Isotopes. Environmental Science & Technology, 2013, 47, 2092-2099.	10.0	69
23	Selenium redox cycling during weathering of Se-rich shales: A selenium isotope study. Geochimica Et Cosmochimica Acta, 2014, 126, 228-249.	3.9	69
24	Isotope fractionation during oxidation of tetravalent uranium by dissolved oxygen. Geochimica Et Cosmochimica Acta, 2015, 150, 160-170.	3.9	68
25	Mass-Dependent Fractionation of Selenium and Chromium Isotopes in Low-Temperature Environments. Reviews in Mineralogy and Geochemistry, 2004, 55, 289-317.	4.8	67
26	Coupled iron, sulfur and carbon isotope evidences for arsenic enrichment in groundwater. Journal of Hydrology, 2014, 519, 414-422.	5.4	67
27	Equilibrium isotopic fractionation and isotopic exchange kinetics between Cr(III) and Cr(VI). Geochimica Et Cosmochimica Acta, 2015, 153, 72-90.	3.9	65
28	Cr isotope fractionation factors for Cr(VI) reduction by a metabolically diverse group of bacteria. Geochimica Et Cosmochimica Acta, 2014, 142, 349-361.	3.9	63
29	Selenium Stable Isotope Ratios as Indicators of Sources and Cycling of Selenium:Â Results from the Northern Reach of San Francisco Bay. Environmental Science & Technology, 2000, 34, 2075-2079.	10.0	59
30	Variation in strontium isotope ratios of archaeological fauna in the Midwestern United States: a preliminary study. Journal of Archaeological Science, 2009, 36, 64-73.	2.4	59
31	Experimentally Determined Uranium Isotope Fractionation During Reduction of Hexavalent U by Bacteria and Zero Valent Iron. Environmental Science & Technology, 2006, 40, 6943-6948.	10.0	57
32	Cr Stable Isotopes in Snake River Plain Aquifer Groundwater: Evidence for Natural Reduction of Dissolved Cr(VI). Environmental Science & Technology, 2011, 45, 502-507.	10.0	56
33	A Mesoarchean shift in uranium isotope systematics. Geochimica Et Cosmochimica Acta, 2018, 238, 438-452.	3.9	52
34	Transport modeling applied to the interpretation of groundwater 36 Cl age. Water Resources Research, 2002, 38, 1-1-1-15.	4.2	51
35	The occurrence and origin of selenium minerals in Se-rich stone coals, spoils and their adjacent soils in Yutangba, China. Chemical Geology, 2012, 330-331, 27-38.	3.3	51
36	Uranium isotopic evidence for groundwater chemical evolution and flow patterns in the eastern Snake River Plain aquifer, Idaho. Bulletin of the Geological Society of America, 2001, 113, 1133-1141.	3.3	49

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37	Paradox of groundwater age: Correction1. Geology, 2002, 30, 385.	4.4	49
38	Selenium Stable Isotope Ratios in California Agricultural Drainage Water Management Systems. Journal of Environmental Quality, 2002, 31, 1146-1156.	2.0	47
39	High Precision Measurement of Selenium Isotopic Composition by Hydride Generation Multiple Collector Inductively Coupled Plasma Mass Spectrometry with a 74Se-77Se Double Spike. Chinese Journal of Analytical Chemistry, 2008, 36, 1385-1390.	1.7	46
40	Selenium Stable Isotope Investigation into Selenium Biogeochemical Cycling in a Lacustrine Environment: Sweitzer Lake, Colorado. Journal of Environmental Quality, 2010, 39, 2200-2210.	2.0	46
41	No Measurable Changes in ²³⁸U/²³⁵U due to Desorptionâ€“Adsorption of U(VI) from Groundwater at the Rifle, Colorado, Integrated Field Research Challenge Site. Environmental Science & Technology, 2013, 47, 2535-2541.	10.0	46
42	Sedimentary chromium isotopic compositions across the Cretaceous OAE2 at Demerara Rise Site 1258. Chemical Geology, 2016, 429, 85-92.	3.3	44
43	Unique Hg Stable Isotope Signatures of Compact Fluorescent Lamp-Sourced Hg. Environmental Science & Technology, 2013, 47, 2542-2547.	10.0	43
44	Rapid exchange effects on isotope ratios in groundwater systems: 1. Development of a transport-dissolution-exchange model. Water Resources Research, 1997, 33, 187-195.	4.2	42
45	A critical review on the occurrence and distribution of the uranium- and thorium-decay nuclides and their effect on the quality of groundwater. Science of the Total Environment, 2022, 808, 151914.	8.0	42
46	Ground Water Age. Ground Water, 2002, 40, 337-339.	1.3	41
47	Isotope Fractionation of Selenium During Fungal Biomethylation by Alternaria alternata. Environmental Science & Technology, 2011, 45, 2670-2676.	10.0	41
48	Fate of Selenium in Soils at a Seleniferous Site Recorded by High Precision Se Isotope Measurements. Environmental Science & Technology, 2015, 49, 9690-9698.	10.0	39
49	Mobilization of arsenic in aquifers from the Datong Basin, China: Evidence from geochemical and iron isotopic data. Chemosphere, 2013, 90, 1878-1884.	8.2	38
50	Selenium isotope fractionation during adsorption by Fe, Mn and Al oxides. Geochimica Et Cosmochimica Acta, 2020, 272, 121-136.	3.9	37
51	Groundwater â€œfast pathsâ€•in the Snake River Plain aquifer: Radiogenic isotope ratios as natural groundwater tracers. Geology, 2000, 28, 871.	4.4	36
52	Denitrification in the Shallow Ground Water of a Tile-Drained, Agricultural Watershed. Journal of Environmental Quality, 2007, 36, 80-90.	2.0	36
53	Low temperature equilibrium isotope fractionation and isotope exchange kinetics between U(IV) and U(VI). Geochimica Et Cosmochimica Acta, 2015, 158, 262-275.	3.9	35
54	Environmental Impacts of the Tennessee Valley Authority Kingston Coal Ash Spill. 2. Effect of Coal Ash on Methylmercury in Historically Contaminated River Sediments. Environmental Science & Technology, 2013, 47, 2100-2108.	10.0	34

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55	Rapid exchange effects on isotope ratios in groundwater systems: 2. Flow investigation using Sr isotope ratios. Water Resources Research, 1997, 33, 197-209.	4.2	32
56	Pathways of arsenic from sediments to groundwater in the hyporheic zone: Evidence from an iron isotope study. Journal of Hydrology, 2014, 511, 509-517.	5.4	29
57	A sequential extraction technique for mass-balanced stable selenium isotope analysis of soil samples. Chemical Geology, 2014, 381, 125-130.	3.3	27
58	High-Sensitivity Measurement of Cr Isotopes by Double Spike MC-ICP-MS at the 10 ng Level. Analytical Chemistry, 2020, 92, 1463-1469.	6.5	27
59	Selenium Partitioning and Stable Isotope Ratios in Urban Topsoils. Soil Science Society of America Journal, 2011, 75, 1354-1364.	2.2	25
60	Isotopic evidence for reduction of anthropogenic hexavalent chromium in Los Alamos National Laboratory groundwater. Chemical Geology, 2014, 373, 1-9.	3.3	24
61	Microbial U Isotope Fractionation Depends on the U(VI) Reduction Rate. Environmental Science & Technology, 2020, 54, 2295-2303.	10.0	24
62	Geological evolution of the marine selenium cycle: Insights from the bulk shale Î´82/76Se record and isotope mass balance modeling. Earth and Planetary Science Letters, 2016, 441, 178-187.	4.4	23
63	Geochemistry and Cr stable isotopes of Cr-contaminated groundwater in LeÃ³n valley, Guanajuato, MÃ©xico. Applied Geochemistry, 2012, 27, 1783-1794.	3.0	22
64	Hg stable isotope analysis by the double-spike method. Analytical and Bioanalytical Chemistry, 2010, 397, 1529-1538.	3.7	18
65	Isotope fractionation of selenium by biomethylation in microcosm incubations of soil. Chemical Geology, 2013, 352, 101-107.	3.3	18
66	Field Application of ²³⁸U/²³⁵U Measurements To Detect Reoxidation and Mobilization of U(IV). Environmental Science & Technology, 2018, 52, 3422-3430.	10.0	18
67	9. Mass-Dependent Fractionation of Selenium and Chromium Isotopes in Low-Temperature Environments. , 2004, , 289-318.		17
68	Mass-dependent selenium isotopic fractionation during microbial reduction of seleno-oxyanions by phylogenetically diverse bacteria. Geochimica Et Cosmochimica Acta, 2020, 276, 274-288.	3.9	17
69	Se Isotopes as Groundwater Redox Indicators: Detecting Natural Attenuation of Se at an in Situ Recovery U Mine. Environmental Science & Technology, 2016, 50, 10833-10842.	10.0	13
70	Selenium isotope fractionation during adsorption onto montmorillonite and kaolinite. Applied Clay Science, 2021, 211, 106189.	5.2	13
71	Influence of physical and chemical hydrology on bioremediation of a U-contaminated aquifer informed by reactive transport modeling incorporating 238U/235U ratios. Geochimica Et Cosmochimica Acta, 2020, 269, 303-328.	3.9	12
72	Stable Isotopes of Cr and Se as Tracers of Redox Processes in Earth Surface Environments. Advances in Isotope Geochemistry, 2012, , 155-175.	1.4	10

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73	Equilibrium fractionation and isotope exchange kinetics between aqueous Se(IV) and Se(VI). Geochimica Et Cosmochimica Acta, 2020, 277, 21-36.	3.9	7
74	Selenium Isotope Shifts during the Oxidation of Selenide-Bearing Minerals. ACS Earth and Space Chemistry, 2021, 5, 1140-1149.	2.7	5
75	Rapid Attainment of Isotopic Equilibrium after Mercury Reduction by Ferrous Iron Minerals and Isotopic Exchange between Hg(II) and Hg(0). ACS Earth and Space Chemistry, 2021, 5, 1384-1394.	2.7	5
76	Factors Affecting the Robustness of Data Inversion for Stable Isotope Measurement Using the Double Spike Method: Insights from Chromium Isotope Analysis. Analytical Chemistry, 2021, 93, 7449-7455.	6.5	4
77	Oxidation of Dissolved Tetravalent Selenium by Birnessite: Se Isotope Fractionation and the Effects of pH and Birnessite Structure. Frontiers in Earth Science, 0, 10, .	1.8	2
78	Groundwater â€œfast pathsâ€•in the Snake River Plain aquifer: Radiogenic isotope ratios as natural groundwater tracers. Geology, 2000, 28, 871-874.	4.4	0