Brian W Ticknor

List of Publications by Year
in descending order

28 papers	597 citations	687363 13 h-index	610901 24 g-index
30 all docs	30 docs citations	30 times ranked	606 citing authors

#	Article	IF	Citations
1	Ionization Thresholds of Small Carbon Clusters:â€‰ Tunable VUV Experiments and Theory. Journal of the American Chemical Society, 2007, 129, 10229-10243.	13.7	82
2	Infrared Photodissociation Spectroscopy of Protonated Acetylene and Its Clusters. Journal of Physical Chemistry A, 2008, 112, 1897-1906.	2.5	70
3	Infrared Spectroscopy of thetert-Butyl Cation in the Gas Phase. Journal of the American Chemical Society, 2007, 129, 13782-13783.	13.7	48
4	Structure of Protonated Carbon Dioxide Clusters:â€‰ Infrared Photodissociation Spectroscopy and ab Initio Calculations. Journal of Physical Chemistry A, 2008, 112, 950-959.	2.5	44
5	The structure of protonated acetone and its dimer: infrared photodissociation spectroscopy from 800 to 4000 cm^{â^'1}. Physical Chemistry Chemical Physics, 2008, 10, 77-79.	2.8	41
6	Photodissociation of Noble Metal-Doped Carbon Clusters. Journal of Physical Chemistry A, 2008, 112, 12355-12366.	2.5	41
7	Automated Separation of Uranium and Plutonium from Environmental Swipe Samples for Multiple Collector Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2018, 90, 9441-9448.	6.5	29
8	Optimization of uranium and plutonium separations using TEVA and UTEVA cartridges for MC-ICP-MS analysis of environmental swipe samples. Talanta, 2019, 198, 257-262.	5.5	29
9	Rapid analysis of trinitite with nuclear forensic applications for post-detonation material analyses. Journal of Radioanalytical and Nuclear Chemistry, 2014, 302, 57-67.	1.5	25
10	Rare Earth Element Determination in Uranium Ore Concentrates Using Online and Offline Chromatography Coupled to ICP-MS. Minerals (Basel, Switzerland), 2020, 10, 55.	2.0	21
11	Rapid Determination of Uranium Isotopic Abundance from Cotton Swipes: Direct Extraction via a Planar Surface Reader and Coupling to a Microplasma Ionization Source. Analytical Chemistry, 2020, 92, 8591-8598.	6.5	20
12	Rapid and automated separation of uranium ore concentrates for trace element analysis by inductively coupled plasma â€“ optical emission spectroscopy/triple quadrupole mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 179, 106097.	2.9	16
13	Photodissociation of silicon carbide cluster cations. Chemical Physics Letters, 2005, 405, 214-219.	2.6	15
14	Determination of phosphorus and sulfur in uranium ore concentrates by triple quadrupole inductively coupled plasma mass spectrometry. Talanta, 2021, 221, 121573.	5.5	13
15	Trace impurity analysis in uranium oxide via hybrid quantification techniquesâ€”gravimetric standard addition and isotope dilution mass spectrometry. Journal of Radioanalytical and Nuclear Chemistry, 2018, 318, 685-694.	1.5	11
16	Evaluation and Specifications for In-Line Uranium Separations Using Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) Detection for Trace Elemental Analysis. Applied Spectroscopy, 2019, 73, 927-935.	2.2	11
17	Determining P, S, Br, and I content in uranium by triple quadrupole inductively coupled plasma mass spectrometry. Journal of Radioanalytical and Nuclear Chemistry, 2020, 324, 395-402.	1.5	11
18	Direct isotopic analysis of solid uranium particulates on cotton swipes by microextraction-ICP-MS. Analytica Chimica Acta, 2022, 1209, 339836.	5.4	10

#	Article	IF	Citations
19	Direct analysis of cotton swipes for plutonium isotope determination by microextraction-ICP-MS. Journal of Analytical Atomic Spectrometry, 2021, 36, 2202-2209.	3.0	9
20	Direct Uranium Isotopic Analysis of Swipe Surfaces by Microextraction-ICP-MS. Analytical Chemistry, 2021, 93, 11133-11139.	6.5	9
21	Rapid separation and purification of uranium and plutonium from dilute-matrix samples. Journal of Radioanalytical and Nuclear Chemistry, 2014, 300, 859-866.	1.5	8
22	A NanoSIMS 50 L Investigation into Improving the Precision and Accuracy of the 235U/238U Ratio Determination by Using the Molecular 235U16O and 238U16O Secondary Ions. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.0	1
23	Exploration of ICP platforms for measuring elemental impurities in uranium ore concentrates. International Journal of Mass Spectrometry, 2020, 455, 116378.	1.5	6
24	Nd and Sm isotopic composition of spent nuclear fuels from three material test reactors. Journal of Radioanalytical and Nuclear Chemistry, 2017, 311, 801-808.	1.5	5
25	Exploring the use of thorium isotope compositions and concentrations as nuclear forensic signatures for uranium ore concentrates. Journal of Radioanalytical and Nuclear Chemistry, 2021, 327, 877-889.	1.5	5
26	Improved uranium isotopic ratio determinations for the liquid sampling-atmospheric pressure glow discharge orbitrap mass spectrometer by use of moving average processing. Journal of Analytical Atomic Spectrometry, 2022, 37, 814-822.	3.0	5
27	An approach to separating Pu, U, and Ti from high-purity graphite for isotopic analysis by MC-ICP-MS. Journal of Analytical Atomic Spectrometry, 2021, 36, 1150-1158.	3.0	3
28	Trace Elemental Analysis of Bulk Thorium Using an Automated Separationâ€“Inductively Coupled Plasma Optical Emission Spectroscopy Methodology. Applied Spectroscopy, 2021, 75, 556-564.	2.2	2