J D Brockman

List of Publications by Year
in descending order

72	1,082	516710 16	477307 29
papers	citations	h-index	g-index

72	72	72	1589
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Radium dial workers: back to the future. International Journal of Radiation Biology, 2022, 98, 750-768.	1.8	11
2	Magnesium intake is inversely associated with risk of non-alcoholic fatty liver disease among American adults. European Journal of Nutrition, 2022, 61, 1245-1254.	3.9	5
3	Effective diffusivity of Ag and migration of Pd in IG-110 graphite. Journal of Nuclear Materials, 2022, 559, 153427.	2.7	5
4	Europium diffusion in IG-110 nuclear graphite. Journal of Nuclear Materials, 2022, 561, 153544.	2.7	3
5	Mercury, selenium, and fatty acids in the axial muscle of largemouth bass: evaluating the influence of seasonal and sexual changes in fish condition and reproductive status. Ecotoxicology, 2022, , 1.	2.4	2
6	Soft Error Characterization of D-FFs at the 5-nm Bulk FinFET Technology for the Terrestrial Environment. , 2022, , .		8
7	Prompt digestion and HPIC separation of rare earth elements in surrogate post-detonation debris material with detection by ICP-MS and gamma spectroscopy. Talanta, 2022, 250, 123743.	5.5	3
8	Innovative high-temperature ammonium bifluoride fusion and rapid analysis of elements with nuclear forensic value. Talanta, 2021, 221, 121622.	5.5	6
9	Serum Zinc Levels and Incidence of Ischemic Stroke: The Reasons for Geographic and Racial Differences in Stroke Study. Stroke, 2021, 52, 3953-3960.	2.0	10
10	Measurement of effective Sr diffusion coefficients in IG-110 graphite. Journal of Nuclear Materials, 2021, 555, 153102.	2.7	8
11	Sorption isosteres and isotherms of silver on NBG-17 graphite. Journal of Nuclear Materials, 2021, 557, 153264.	2.7	3
12	Brain Bromine Levels Associated with Alzheimerâ€™s Disease Neuropathology. Journal of Alzheimer's Disease, 2020, 73, 327-332.	2.6	5
13	Development of an Experimentally Validated MCNP6 Model for 11C Production via the 14N(p,Î±) Reaction Using a GE PETtrace Cyclotron. Nuclear Technology, 2020, 206, 962-976.	1.2	2
14	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
15	Methylmercury exposure, genetic variation in metabolic enzymes, and the risk of glioma. Scientific Reports, 2019, 9, 10861.	3.3	9
16	Characterization of the neutron flux during production of 18F at a medical cyclotron and evaluation of the incidental neutron spectrum for neutron damage studies. Applied Radiation and Isotopes, 2019, 154, 108892.	1.5	11
17	Total Fluorine Measurements in Food Packaging: How Do Current Methods Perform?. Environmental Science and Technology Letters, 2019, 6, 73-78.	8.7	84
18	Electrospun PCL, gold nanoparticles, and soy lecithin composite material for tissue engineering applications. Journal of Biomaterials Applications, 2019, 33, 979-988.	2.4	11

#	Article	IF	Citations
19	Demonstration of the bactericidal effects of the boron neutron capture reaction. Applied Radiation and Isotopes, 2018, 137, 190-193.	1.5	3
20	ICP-MS measurement of silver diffusion coefficient in graphite IG-110 between 1048K and 1284K. Journal of Nuclear Materials, 2018, 498, 44-49.	2.7	7
21	Arsenic Exposure in Relation to Ischemic Stroke. Stroke, 2018, 49, 19-26.	2.0	22
22	Rapid dissolution of surrogate nuclear debris using ammonium bifluoride fusion and indirect sonication dissolution methods. Journal of Radioanalytical and Nuclear Chemistry, 2018, 318, 49-54.	1.5	3
23	Toenail selenium, genetic variation in selenoenzymes and risk and outcome in glioma. Cancer Epidemiology, 2018, 55, 45-51.	1.9	1
24	Urinary cadmium concentration and the risk of ischemic stroke. Neurology, 2018, 91, e382-e391.	1.1	40
25	Analysis and imaging of boron distribution in maize by quantitative neutron capture radiography. Applied Radiation and Isotopes, 2018, 140, 252-261.	1.5	5
26	Instrumental neutron activation analysis, a technique for measurement of Se, Hg, Fe, Zn, K, Mn, Br, and the Hg:Se ratio in brain tissue samples with results from the Memory and Aging Project (MAP). Journal of Radioanalytical and Nuclear Chemistry, 2018, 318, 43-48.	1.5	7
27	Serum mercury concentration and the risk of ischemic stroke: The REasons for Geographic and Racial Differences in Stroke Trace Element Study. Environment International, 2018, 117, 125-131.	10.0	13
28	Evaluation of ammonium bifluoride fusion for rapid dissolution in post-detonation nuclear forensic analysis. Radiochimica Acta, 2017, 105, 629-635.	1.2	15
29	Association between trace elements in the environment and stroke risk: The reasons for geographic and racial differences in stroke (REGARDS) study. Journal of Trace Elements in Medicine and Biology, 2017, 42, 45-49.	3.0	20
30	Sorption of Ag and its vaporization from graphite at high temperatures. Journal of Nuclear Materials, 2017, 493, 132-146.	2.7	5
31	Fast and reliable method for As speciation in urine samples containing low levels of As by LC-ICP-MS: Focus on epidemiological studies. Talanta, 2017, 165, 76-83.	5.5	14
32	Sonication assisted dissolution of post-detonation nuclear debris using ammonium bifluoride. Radiochimica Acta, 2017, 105, 1059-1070.	1.2	3
33	Measurement of 239 Pu in keratinous materials: A potential non-invasive bioassay for monitoring human exposure. Applied Radiation and Isotopes, 2017, 128, 132-135.	1.5	2
34	Toenail mineral concentration and risk of esophageal squamous cell carcinoma, results from the Golestan Cohort Study. Cancer Medicine, 2017, 6, 3052-3059.	2.8	16
35	Thermal neutron-induced soft-error rates for flip-flop designs in 16-nm bulk FinFET technology. , 2017, , .		9
36	Validation and Comparison of the Therapeutic Efficacy of Boron Neutron Capture Therapy Mediated By Boron-Rich Liposomes in Multiple Murine Tumor Models. Translational Oncology, 2017, 10, 686-692.	3.7	27

#	Article	IF	Citations
37	Cross sectional study of serum selenium concentration and esophageal squamous dysplasia in western Kenya. BMC Cancer, 2017, 17, 835.	2.6	14
38	P3â€312: Brain Iron Levels Associated With Increased Alzheimer's Disease Neuropathology. Alzheimer's and Dementia, 2016, 12, P962.	0.8	1
39	Diffusion of cesium and iodine in compressed IG-110 graphite compacts. Journal of Nuclear Materials, 2016, 476, 30-35.	2.7	10
40	Neutron detection with integrated sub-2 nm Pt nanoparticles and 10B enriched dielectricsâ€"A direct conversion device. Sensing and Bio-Sensing Research, 2016, 9, 1-6.	4.2	8
41	Measurement of Uranium Isotope Ratios in Keratinous Materials: A Noninvasive Bioassay for Special Nuclear Material. Analytical Chemistry, 2016, 88, 8765-8771.	6.5	8
42	Calibration of a system for measurements of diffusion coefficients of fission products in HTGR/VHTR core materials. Journal of Radioanalytical and Nuclear Chemistry, 2016, 307, 1771-1775.	1.5	6
43	Association of Seafood Consumption, Brain Mercury Level, and APOE Îµ4 Status With Brain Neuropathology in Older Adults. JAMA - Journal of the American Medical Association, 2016, 315, 489.	7.4	112
44	ICP-MS measurement of iodine diffusion in IG-110 graphite for HTGR/VHTR. Journal of Nuclear Materials, 2016, 473, 218-222.	2.7	9
45	Development of ammonium bifluoride fusion method for rapid dissolution of trinitite samples and analysis by ICP-MS. Journal of Radioanalytical and Nuclear Chemistry, 2016, 307, 1777-1780.	1.5	18
46	The Nail as a Biomonitor of Trace Element Status in Golestan Cohort Study. Middle East Journal of Digestive Diseases, 2016, 8, 19-23.	0.4	11
47	ICP-MS measurement of diffusion coefficients of Cs in NBG-18 graphite. Journal of Nuclear Materials, 2015, 466, 402-408.	2.7	11
48	Measurement of cesium diffusion coefficients in graphite IG-110. Journal of Nuclear Materials, 2015, 460, 30-36.	2.7	16
49	Measurement of U and Pu isotope ratios in hair and nail samples using extraction chromatography and multi-collector inductively coupled plasma mass spectrometry. Talanta, 2014, 129, 481-485.	5.5	9
50	Toenail iron, genetic determinants of iron status, and the risk of glioma. Cancer Causes and Control, 2013, 24, 2051-2058.	1.8	8
51	Boron neutron capture therapy demonstrated in mice bearing EMT6 tumors following selective delivery of boron by rationally designed liposomes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6512-6517.	7.1	110
52	Toenail trace element status and risk of Barrett's oesophagus and oesophageal adenocarcinoma: Results from the FINBAR study. International Journal of Cancer, 2012, 131, 1882-1891.	5.1	26
53	A radiochemical method for neutron activation analysis of arsenic in biological samples and its potential use in epidemiology studies. Journal of Radioanalytical and Nuclear Chemistry, 2012, 291, 473-478.	1.5	1
54	A new approach to single-comparator instrumental neutron activation analysis. Journal of Radioanalytical and Nuclear Chemistry, 2012, 291, 467-472.	1.5	3

#	Article	IF	Citations
55	Measurement of Arsenic Species in Infant Rice Cereals by Liquid Chromatography Inductively Coupled Plasma Mass Spectrometry. American Journal of Analytical Chemistry, 2012, 03, 693-697.	0.9	13
56	Measurement of the Trace Elements Cu, Zn, Fe, and Mg and the Ultratrace Elements Cd, Co, Mn, and Pb in Limited Quantity Human Plasma and Serum Samples by Inductively Coupled Plasma-Mass Spectrometry. American Journal of Analytical Chemistry, 2012, 03, 646-650.	0.9	20
57	Intercalibration of physical neutron dosimetry for the RA-3 and MURR thermal neutron sources for BNCT small-animal research. Applied Radiation and Isotopes, 2011, 69, 1921-1923.	1.5	5
58	The Nail as a Noninvasive Indicator of Methylmercury Exposures and Mercury/Selenium Molar Ratios in Brain, Kidney, and Livers of Long-Evans Rats. Biological Trace Element Research, 2011, 144, 812-820.	3.5	12
59	Iron intake and markers of iron status and risk of Barrettâ€™s esophagus and esophageal adenocarcinoma. Cancer Causes and Control, 2010, 21, 2269-2279.	1.8	23
60	Using Monte Carlo transport to accurately predict isotope production and activation analysis rates at the University of Missouri research reactor. Journal of Radioanalytical and Nuclear Chemistry, 2009, 282, 255-259.	1.5	4
61	The concentration and variability of selenium and mercury measured in vacuum-packed tuna fish. Journal of Radioanalytical and Nuclear Chemistry, 2009, 282, 45-48.	1.5	1
62	Variation in k0 neutron flux parameters after replacement of the beryllium reflector and graphite wedge at the University of Missouri Research Reactor. Journal of Radioanalytical and Nuclear Chemistry, 2009, 282, 41-44.	1.5	4
63	Characterization of a boron neutron capture therapy beam line at the University of Missouri Research Reactor. Journal of Radioanalytical and Nuclear Chemistry, 2009, 282, 157-160.	1.5	9
64	Analysis of the toenail as a biomonitor of supranutritional intake of Zn, Cu, and Mg. Journal of Radioanalytical and Nuclear Chemistry, 2009, 279, 405-410.	1.5	17
65	Spectral performance of a composite single-crystal filtered thermal neutron beam for BNCT research at the University of Missouri. Applied Radiation and Isotopes, 2009, 67, S222-S225.	1.5	9
66	Analysis of k0 neutron activation analysis at the University of Missouri Research Reactor. Applied Radiation and Isotopes, 2009, 67, 1084-1088.	1.5	6
67	Quality control in the neutron activation analysis of biological markers for selenium in epidemiological investigations. Journal of Radioanalytical and Nuclear Chemistry, 2008, 276, 7-13.	1.5	8
68	The â€œOne Sourceâ€•cohort â€” evaluating the suitability of the human toenail as a manganese biomonitor. Journal of Radioanalytical and Nuclear Chemistry, 2008, 276, 41-47.	1.5	8
69	Nail as a biomarker of selenium and methyl mercury in a rat model. Journal of Radioanalytical and Nuclear Chemistry, 2008, 276, 59-64.	1.5	3
70	Demonstration of a radiation resistant, high efficiency SiC betavoltaic. Applied Physics Letters, 2006, 88, 064101.	3.3	122
71	Selenium and nutrition: The accuracy and variability of the selenium content in commercial supplements. Journal of Radioanalytical and Nuclear Chemistry, 2005, 264, 33-38.	1.5	17
72	Quadrupole and multi-collector ICP-MS analysis of ²²⁶Ra in brain from a radium dial painter. Journal of Analytical Atomic Spectrometry, 0, , .	3.0	1