

J D Brockman

List of Publications by Year in descending order

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72
papers

1,082
citations

516710

16
h-index

477307

29
g-index

72
all docs

72
docs citations

72
times ranked

1589
citing authors

#	ARTICLE	IF	CITATIONS
1	Demonstration of a radiation resistant, high efficiency SiC betavoltaic. Applied Physics Letters, 2006, 88, 064101.	3.3	122
2	Association of Seafood Consumption, Brain Mercury Level, and APOE $\epsilon 4$ Status With Brain Neuropathology in Older Adults. JAMA - Journal of the American Medical Association, 2016, 315, 489.	7.4	112
3	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
4	Total Fluorine Measurements in Food Packaging: How Do Current Methods Perform?. Environmental Science and Technology Letters, 2019, 6, 73-78.	8.7	84
5	Urinary cadmium concentration and the risk of ischemic stroke. Neurology, 2018, 91, e382-e391.	1.1	40
6	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
7	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
8	Iron intake and markers of iron status and risk of Barrett's esophagus and esophageal adenocarcinoma. Cancer Causes and Control, 2010, 21, 2269-2279.	1.8	23
9	Arsenic Exposure in Relation to Ischemic Stroke. Stroke, 2018, 49, 19-26.	2.0	22
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	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
12	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
13	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
14	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
15	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
16	Measurement of cesium diffusion coefficients in graphite IG-110. Journal of Nuclear Materials, 2015, 460, 30-36.	2.7	16
17	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
18	Evaluation of ammonium bifluoride fusion for rapid dissolution in post-detonation nuclear forensic analysis. Radiochimica Acta, 2017, 105, 629-635.	1.2	15

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19	Fast and reliable method for As speciation in urine samples containing low levels of As by LC-ICP-MS: Focus on epidemiological studies. <i>Talanta</i> , 2017, 165, 76-83.	5.5	14
20	Cross sectional study of serum selenium concentration and esophageal squamous dysplasia in western Kenya. <i>BMC Cancer</i> , 2017, 17, 835.	2.6	14
21	Serum mercury concentration and the risk of ischemic stroke: The REasons for Geographic and Racial Differences in Stroke Trace Element Study. <i>Environment International</i> , 2018, 117, 125-131.	10.0	13
22	Measurement of Arsenic Species in Infant Rice Cereals by Liquid Chromatography Inductively Coupled Plasma Mass Spectrometry. <i>American Journal of Analytical Chemistry</i> , 2012, 03, 693-697.	0.9	13
23	The Nail as a Noninvasive Indicator of Methylmercury Exposures and Mercury/Selenium Molar Ratios in Brain, Kidney, and Livers of Long-Evans Rats. <i>Biological Trace Element Research</i> , 2011, 144, 812-820.	3.5	12
24	ICP-MS measurement of diffusion coefficients of Cs in NBG-18 graphite. <i>Journal of Nuclear Materials</i> , 2015, 466, 402-408.	2.7	11
25	Characterization of the neutron flux during production of ¹⁸ F at a medical cyclotron and evaluation of the incidental neutron spectrum for neutron damage studies. <i>Applied Radiation and Isotopes</i> , 2019, 154, 108892.	1.5	11
26	Electrospun PCL, gold nanoparticles, and soy lecithin composite material for tissue engineering applications. <i>Journal of Biomaterials Applications</i> , 2019, 33, 979-988.	2.4	11
27	Radium dial workers: back to the future. <i>International Journal of Radiation Biology</i> , 2022, 98, 750-768.	1.8	11
28	The Nail as a Biomonitor of Trace Element Status in Golestan Cohort Study. <i>Middle East Journal of Digestive Diseases</i> , 2016, 8, 19-23.	0.4	11
29	Diffusion of cesium and iodine in compressed IG-110 graphite compacts. <i>Journal of Nuclear Materials</i> , 2016, 476, 30-35.	2.7	10
30	Serum Zinc Levels and Incidence of Ischemic Stroke: The Reasons for Geographic and Racial Differences in Stroke Study. <i>Stroke</i> , 2021, 52, 3953-3960.	2.0	10
31	Characterization of a boron neutron capture therapy beam line at the University of Missouri Research Reactor. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2009, 282, 157-160.	1.5	9
32	Spectral performance of a composite single-crystal filtered thermal neutron beam for BNCT research at the University of Missouri. <i>Applied Radiation and Isotopes</i> , 2009, 67, S222-S225.	1.5	9
33	Measurement of U and Pu isotope ratios in hair and nail samples using extraction chromatography and multi-collector inductively coupled plasma mass spectrometry. <i>Talanta</i> , 2014, 129, 481-485.	5.5	9
34	ICP-MS measurement of iodine diffusion in IG-110 graphite for HTGR/VHTR. <i>Journal of Nuclear Materials</i> , 2016, 473, 218-222.	2.7	9
35	Thermal neutron-induced soft-error rates for flip-flop designs in 16-nm bulk FinFET technology. , 2017, , ,		9
36	Methylmercury exposure, genetic variation in metabolic enzymes, and the risk of glioma. <i>Scientific Reports</i> , 2019, 9, 10861.	3.3	9

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37	Quality control in the neutron activation analysis of biological markers for selenium in epidemiological investigations. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2008, 276, 7-13.	1.5	8
38	The "One Source" cohort evaluating the suitability of the human toenail as a manganese biomonitor. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2008, 276, 41-47.	1.5	8
39	Toenail iron, genetic determinants of iron status, and the risk of glioma. <i>Cancer Causes and Control</i> , 2013, 24, 2051-2058.	1.8	8
40	Neutron detection with integrated sub-2 nm Pt nanoparticles and ¹⁰ B enriched dielectrics: A direct conversion device. <i>Sensing and Bio-Sensing Research</i> , 2016, 9, 1-6.	4.2	8
41	Measurement of Uranium Isotope Ratios in Keratinous Materials: A Noninvasive Bioassay for Special Nuclear Material. <i>Analytical Chemistry</i> , 2016, 88, 8765-8771.	6.5	8
42	Measurement of effective Sr diffusion coefficients in IG-110 graphite. <i>Journal of Nuclear Materials</i> , 2021, 555, 153102.	2.7	8
43	Soft Error Characterization of D-FFs at the 5-nm Bulk FinFET Technology for the Terrestrial Environment. , 2022, , .		8
44	ICP-MS measurement of silver diffusion coefficient in graphite IG-110 between 1048K and 1284K. <i>Journal of Nuclear Materials</i> , 2018, 498, 44-49.	2.7	7
45	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). <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 318, 43-48.	1.5	7
46	Analysis of ¹⁰ B neutron activation analysis at the University of Missouri Research Reactor. <i>Applied Radiation and Isotopes</i> , 2009, 67, 1084-1088.	1.5	6
47	Calibration of a system for measurements of diffusion coefficients of fission products in HTGR/VHTR core materials. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 307, 1771-1775.	1.5	6
48	Innovative high-temperature ammonium bifluoride fusion and rapid analysis of elements with nuclear forensic value. <i>Talanta</i> , 2021, 221, 121622.	5.5	6
49	Intercalibration of physical neutron dosimetry for the RA-3 and MURR thermal neutron sources for BNCT small-animal research. <i>Applied Radiation and Isotopes</i> , 2011, 69, 1921-1923.	1.5	5
50	Sorption of Ag and its vaporization from graphite at high temperatures. <i>Journal of Nuclear Materials</i> , 2017, 493, 132-146.	2.7	5
51	Analysis and imaging of boron distribution in maize by quantitative neutron capture radiography. <i>Applied Radiation and Isotopes</i> , 2018, 140, 252-261.	1.5	5
52	Brain Bromine Levels Associated with Alzheimer's Disease Neuropathology. <i>Journal of Alzheimer's Disease</i> , 2020, 73, 327-332.	2.6	5
53	Magnesium intake is inversely associated with risk of non-alcoholic fatty liver disease among American adults. <i>European Journal of Nutrition</i> , 2022, 61, 1245-1254.	3.9	5
54	Effective diffusivity of Ag and migration of Pd in IG-110 graphite. <i>Journal of Nuclear Materials</i> , 2022, 559, 153427.	2.7	5

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55	Using Monte Carlo transport to accurately predict isotope production and activation analysis rates at the University of Missouri research reactor. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2009, 282, 255-259.	1.5	4
56	Variation in k0 neutron flux parameters after replacement of the beryllium reflector and graphite wedge at the University of Missouri Research Reactor. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2009, 282, 41-44.	1.5	4
57	Nail as a biomarker of selenium and methyl mercury in a rat model. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2008, 276, 59-64.	1.5	3
58	A new approach to single-comparator instrumental neutron activation analysis. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012, 291, 467-472.	1.5	3
59	Sonication assisted dissolution of post-detonation nuclear debris using ammonium bifluoride. <i>Radiochimica Acta</i> , 2017, 105, 1059-1070.	1.2	3
60	Demonstration of the bactericidal effects of the boron neutron capture reaction. <i>Applied Radiation and Isotopes</i> , 2018, 137, 190-193.	1.5	3
61	Rapid dissolution of surrogate nuclear debris using ammonium bifluoride fusion and indirect sonication dissolution methods. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 318, 49-54.	1.5	3
62	Sorption isosteres and isotherms of silver on NBG-17 graphite. <i>Journal of Nuclear Materials</i> , 2021, 557, 153264.	2.7	3
63	Europium diffusion in IG-110 nuclear graphite. <i>Journal of Nuclear Materials</i> , 2022, 561, 153544.	2.7	3
64	Prompt digestion and HPIC separation of rare earth elements in surrogate post-detonation debris material with detection by ICP-MS and gamma spectroscopy. <i>Talanta</i> , 2022, 250, 123743.	5.5	3
65	Measurement of ²³⁹ Pu in keratinous materials: A potential non-invasive bioassay for monitoring human exposure. <i>Applied Radiation and Isotopes</i> , 2017, 128, 132-135.	1.5	2
66	Development of an Experimentally Validated MCNP6 Model for ¹¹ C Production via the ¹⁴ N(p, $\hat{\pm}$) Reaction Using a GE PETtrace Cyclotron. <i>Nuclear Technology</i> , 2020, 206, 962-976.	1.2	2
67	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. <i>Ecotoxicology</i> , 2022, , 1.	2.4	2
68	The concentration and variability of selenium and mercury measured in vacuum-packed tuna fish. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2009, 282, 45-48.	1.5	1
69	A radiochemical method for neutron activation analysis of arsenic in biological samples and its potential use in epidemiology studies. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012, 291, 473-478.	1.5	1
70	⁵⁷ Fe: Brain Iron Levels Associated With Increased Alzheimer's Disease Neuropathology. <i>Alzheimer's and Dementia</i> , 2016, 12, P962.	0.8	1
71	Toenail selenium, genetic variation in selenoenzymes and risk and outcome in glioma. <i>Cancer Epidemiology</i> , 2018, 55, 45-51.	1.9	1
72	Quadrupole and multi-collector ICP-MS analysis of ²²⁶ Ra in brain from a radium dial painter. <i>Journal of Analytical Atomic Spectrometry</i> , 0, , .	3.0	1