

Douglas C Duckworth

List of Publications by Year in descending order

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46
papers

1,457
citations

331538

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48
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docs citations

48
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950
citing authors

#	ARTICLE	IF	CITATIONS
1	A NanoSIMS 50 L Investigation into Improving the Precision and Accuracy of the $^{235}\text{U}/^{238}\text{U}$ Ratio Determination by Using the Molecular $^{235}\text{U}^{16}\text{O}$ and $^{238}\text{U}^{16}\text{O}$ Secondary Ions. Minerals (Basel,) Tj ETQq1 1 0.784334 rgBT7Overloc	1.0	7
2	Atomic Spectroscopy, Forensic Science Applications. , 2017, , 89-95.		0
3	Bayesian Integration of Isotope Ratio for Geographic Sourcing of Castor Beans. Journal of Biomedicine and Biotechnology, 2012, 2012, 1-8.	3.0	10
4	Electrochemically modulated separations for rapid and sensitive isotopic analysis. Journal of Radioanalytical and Nuclear Chemistry, 2012, 296, 1037.	0.7	0
5	Multiple Stable Isotope Characterization as a Forensic Tool to Distinguish Acid Scavenger Samples*. Journal of Forensic Sciences, 2012, 57, 60-63.	0.9	5
6	Atomic Spectroscopy, Forensic Science Applications. , 2010, , 84-90.		1
7	Determination of plutonium isotope ratios at very low levels by ICP-MS using on-line electrochemically modulated separations. Journal of Radioanalytical and Nuclear Chemistry, 2009, 282, 299.	0.7	19
8	Intrinsic dosimetry of glass containers used to transport nuclear materials: Potential implications to the fields of waste management and nuclear forensics. Radiation Measurements, 2009, 44, 405-408.	0.7	6
9	Dynamic collision-induced dissociation (DCID) in a quadrupole ion trap using a two-frequency excitation waveform: II. Effects of frequency spacing and scan rate. Journal of the American Society for Mass Spectrometry, 2007, 18, 2017-2025.	1.2	8
10	Electrochemically Modulated Separation, Concentration, and Detection of Plutonium Using an Anodized Glassy Carbon Electrode and Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2006, 78, 8535-8542.	3.2	14
11	Electrochemically-Induced Reactions of Hexafluorophosphate Anions with Water in Negative Ion Electrospray Mass Spectrometry of Undiluted Ionic Liquids. Journal of the American Society for Mass Spectrometry, 2006, 17, 939-944.	1.2	22
12	Interface of a particle collector with an on-line electrochemically-modulated separation system for analysis of airborne radioisotopes. Journal of Radioanalytical and Nuclear Chemistry, 2005, 263, 177-181.	0.7	0
13	Examination of the Potential of Ionic Liquids for Gas Separations. Separation Science and Technology, 2005, 40, 525-541.	1.3	230
14	Gas-Phase Reactions of Bare and Ligated Uranium Ions with Sulfur Hexafluoride. Journal of Physical Chemistry A, 2004, 108, 1042-1051.	1.1	19
15	Electrospray mass spectrometry of undiluted ionic liquids. This manuscript has been authored by a contractor of the U.S. Government under contract No. DE-AC05-00OR22725. Accordingly, the U.S. Government retains paid-up, nonexclusive, irrevocable, worldwide license to publish or reproduce the published form of this contribution, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, or allow others to do so, for U.S. Government purposes.. Chemical Communications, 2004, , 522.	2.2	58
16	Efficient polyatomic interference reduction in plasma-source mass spectrometry via collision induced dissociation. Journal of Analytical Atomic Spectrometry, 2003, 18, 1026-1032.	1.6	14
17	A new pulsed glow discharge source with enhanced ion extraction for small non-conductive samples and atmospheric sampling. Journal of Analytical Atomic Spectrometry, 2003, 18, 665.	1.6	2
18	Gas-Phase Reactions of U^+ and U^{2+} with O_2 and H_2O in a Quadrupole Ion Trap. Journal of Physical Chemistry A, 2002, 106, 7788-7794.	1.1	53

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19	Forensic glass analysis by ICP-MS: a multi-element assessment of discriminating power via analysis of variance and pairwise comparisons. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 662-668.	1.6	56
20	Collision-induced dissociation of lanthanide oxide ions in quadrupole ion traps: effects of bond strength and mass. <i>International Journal of Mass Spectrometry</i> , 2002, 216, 85-93.	0.7	16
21	Gas-phase reactions of bare and oxo-ligated actinide and lanthanide cations with pentamethylcyclopentadiene studied in a quadrupole ion trap mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2002, 220, 419-441.	0.7	34
22	Collision-Induced Dissociation in Quadrupole Ion Traps: Application of a Thermal Model to Diatomic Ions. <i>Journal of Physical Chemistry A</i> , 2001, 105, 1882-1889.	1.1	21
23	Measurement of collision-induced dissociation rates for tantalum oxide ions in a quadrupole ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 2000, 11, 1072-1078.	1.2	10
24	Analysis of variance in forensic glass analysis by ICP-MS: variance within the method. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 821-828.	1.6	42
25	<title>Elemental analysis of forensic glasses by inductively coupled plasma mass spectrometry</title>., 1999, , .		0
26	Adsorptive stripping voltammetry as a sample pretreatment method for trace uranium determinations by inductively coupled plasma mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 1998, 178, 51-63.	0.7	25
27	Electrochemical Sample Pretreatment Coupled On-Line with ICP-MS:Â Analysis of Uranium Using an Anodically Conditioned Glassy Carbon Working Electrode. <i>Analytical Chemistry</i> , 1998, 70, 1141-1148.	3.2	41
28	Peer Reviewed: Ion Traps: What Do They Hold for Elemental Mass Analysis?. <i>Analytical Chemistry</i> , 1998, 70, 709A-717A.	3.2	16
29	Improved Signal-to-noise Ratio in Glow Discharge Ion Trap Mass Spectrometry via Pulsed Discharge Operation. <i>Journal of Analytical Atomic Spectrometry</i> , 1997, 12, 43-48.	1.6	19
30	Anodic Stripping Voltammetry Coupled On-Line with Inductively Coupled Plasma Mass Spectrometry:Â Optimization of a Thin-Layer Flow Cell System for Analyte Signal Enhancement. <i>Analytical Chemistry</i> , 1997, 69, 3544-3551.	3.2	24
31	Isotope ratio measurements using glow discharge mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995, 146-147, 55-64.	1.9	19
32	Factors Influencing the Quantitative Determination of Trace Elements in Soils by Glow Discharge Mass Spectrometry. <i>Applied Spectroscopy</i> , 1995, 49, 1361-1366.	1.2	31
33	Effects of target gas in collision-induced dissociation using a double quadrupole mass spectrometer and radiofrequency. <i>Journal of the American Society for Mass Spectrometry</i> , 1994, 5, 845-851.	1.2	16
34	Influence of Solution-Deposited Anions on Glow Discharge Relative Ion Yields. <i>Applied Spectroscopy</i> , 1994, 48, 1307-1315.	1.2	6
35	Ion sources for analysis of inorganic solids and liquids by MS. <i>Analytical Chemistry</i> , 1994, 66, 1079A-1089A.	3.2	21
36	Dynamic range extension in glow discharge quadrupole ion trap mass spectrometry. <i>Analytical Chemistry</i> , 1994, 66, 92-98.	3.2	36

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37	Analysis of solution residues by glow discharge mass spectrometry. Journal of the American Society for Mass Spectrometry, 1993, 4, 47-53.	1.2	25
38	Direct Measurement of Uranium Isotopic Ratios in Soils by Glow Discharge Mass Spectrometry. Applied Spectroscopy, 1993, 47, 243-245.	1.2	30
39	Design and characterization of a radio-frequency-powered glow discharge source for double-focusing mass spectrometers. Analytical Chemistry, 1993, 65, 2478-2484.	3.2	54
40	Analysis of Nonconducting Sample Types. , 1993, , 263-328.		7
41	Analysis of soils by glow discharge mass spectrometry. Journal of Analytical Atomic Spectrometry, 1993, 8, 875.	1.6	51
42	Inter-Laboratory note. Direct insertion probe for radiofrequency powered glow discharge mass spectrometry. Journal of Analytical Atomic Spectrometry, 1992, 7, 711.	1.6	58
43	Radio-frequency glow discharge ion trap mass spectrometry. Analytical Chemistry, 1992, 64, 1606-1609.	3.2	63
44	A Simple, Lensless Interface of an RF Glow Discharge Device to an FT-ICR (FTMS). Applied Spectroscopy, 1992, 46, 1327-1330.	1.2	24
45	Sampling an RF-Powered Glow Discharge Source with a Double Quadrupole Mass Spectrometer. Applied Spectroscopy, 1990, 44, 649-655.	1.2	51
46	Radio frequency powered glow discharge atomization/ionization source for solids mass spectrometry. Analytical Chemistry, 1989, 61, 1879-1886.	3.2	177