

Douglas C Duckworth

List of Publications by Year in descending order

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46
papers

1,457
citations

331538

21
h-index

315616

38
g-index

48
all docs

48
docs citations

48
times ranked

950
citing authors

#	ARTICLE	IF	CITATIONS
1	Examination of the Potential of Ionic Liquids for Gas Separations. <i>Separation Science and Technology</i> , 2005, 40, 525-541.	1.3	230
2	Radio frequency powered glow discharge atomization/ionization source for solids mass spectrometry. <i>Analytical Chemistry</i> , 1989, 61, 1879-1886.	3.2	177
3	Radio-frequency glow discharge ion trap mass spectrometry. <i>Analytical Chemistry</i> , 1992, 64, 1606-1609.	3.2	63
4	Inter-Laboratory note. Direct insertion probe for radiofrequency powered glow discharge mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1992, 7, 711.	1.6	58
5	<i>Electrospray mass spectrometry of undiluted ionic liquids</i> 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.. <i>Chemical Communications</i> , 2004, , 522.	2.2	58
6	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
7	Design and characterization of a radio-frequency-powered glow discharge source for double-focusing mass spectrometers. <i>Analytical Chemistry</i> , 1993, 65, 2478-2484.	3.2	54
8	Gas-Phase Reactions of U ⁺ and U ²⁺ with O ₂ and H ₂ O in a Quadrupole Ion Trap. <i>Journal of Physical Chemistry A</i> , 2002, 106, 7788-7794.	1.1	53
9	Sampling an RF-Powered Glow Discharge Source with a Double Quadrupole Mass Spectrometer. <i>Applied Spectroscopy</i> , 1990, 44, 649-655.	1.2	51
10	Analysis of soils by glow discharge mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1993, 8, 875.	1.6	51
11	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
12	Electrochemical Sample Pretreatment Coupled On-Line with ICP-MS: Analysis of Uranium Using an Anodically Conditioned Glassy Carbon Working Electrode. <i>Analytical Chemistry</i> , 1998, 70, 1141-1148.	3.2	41
13	Dynamic range extension in glow discharge quadrupole ion trap mass spectrometry. <i>Analytical Chemistry</i> , 1994, 66, 92-98.	3.2	36
14	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
15	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
16	Direct Measurement of Uranium Isotopic Ratios in Soils by Glow Discharge Mass Spectrometry. <i>Applied Spectroscopy</i> , 1993, 47, 243-245.	1.2	30
17	Analysis of solution residues by glow discharge mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1993, 4, 47-53.	1.2	25
18	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

#	ARTICLE	IF	CITATIONS
19	A Simple, Lensless Interface of an RF Glow Discharge Device to an FT-ICR (FTMS). <i>Applied Spectroscopy</i> , 1992, 46, 1327-1330.	1.2	24
20	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
21	Electrochemically-Induced Reactions of Hexafluorophosphate Anions with Water in Negative Ion Electrospray Mass Spectrometry of Undiluted Ionic Liquids. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 939-944.	1.2	22
22	Ion sources for analysis of inorganic solids and liquids by MS. <i>Analytical Chemistry</i> , 1994, 66, 1079A-1089A.	3.2	21
23	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
24	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
25	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
26	Gas-Phase Reactions of Bare and Ligated Uranium Ions with Sulfur Hexafluoride. <i>Journal of Physical Chemistry A</i> , 2004, 108, 1042-1051.	1.1	19
27	Determination of plutonium isotope ratios at very low levels by ICP-MS using on-line electrochemically modulated separations. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2009, 282, 299.	0.7	19
28	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
29	Peer Reviewed: Ion Traps: What Do They Hold for Elemental Mass Analysis?. <i>Analytical Chemistry</i> , 1998, 70, 709A-717A.	3.2	16
30	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
31	Efficient polyatomic interference reduction in plasma-source mass spectrometry via collision induced dissociation. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 1026-1032.	1.6	14
32	Electrochemically Modulated Separation, Concentration, and Detection of Plutonium Using an Anodized Glassy Carbon Electrode and Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2006, 78, 8535-8542.	3.2	14
33	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
34	Bayesian Integration of Isotope Ratio for Geographic Sourcing of Castor Beans. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-8.	3.0	10
35	Dynamic collision-induced dissociation (DCID) in a quadrupole ion trap using a two-frequency excitation waveform: II. Effects of frequency spacing and scan rate. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 2017-2025.	1.2	8
36	Analysis of Nonconducting Sample Types. , 1993, , 263-328.		7

#	ARTICLE	IF	CITATIONS
37	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 rgBT 7Overloc	1.2	6
38	Influence of Solution-Deposited Anions on Glow Discharge Relative Ion Yields. Applied Spectroscopy, 1994, 48, 1307-1315.	1.2	6
39	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
40	Multiple Stable Isotope Characterization as a Forensic Tool to Distinguish Acid Scavenger Samples*. Journal of Forensic Sciences, 2012, 57, 60-63.	0.9	5
41	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
42	Atomic Spectroscopy, Forensic Science Applications. , 2010, , 84-90.		1
43	<title>Elemental analysis of forensic glasses by inductively coupled plasma mass spectrometry</title>. , 1999, , .		0
44	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
45	Electrochemically modulated separations for rapid and sensitive isotopic analysis. Journal of Radioanalytical and Nuclear Chemistry, 2012, 296, 1037.	0.7	0
46	Atomic Spectroscopy, Forensic Science Applications. , 2017, , 89-95.		0