

George L Donati

List of Publications by Year in descending order

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105
papers

2,490
citations

201674

27
h-index

254184

43
g-index

108
all docs

108
docs citations

108
times ranked

2396
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous quantification of seven multi-class organic molecules by single-shot dilution differential pulse voltammetric calibration. <i>Talanta</i> , 2022, 237, 122975.	5.5	3
2	Multi-internal standard calibration applied to inductively coupled plasma optical emission spectrometry. <i>Analytica Chimica Acta</i> , 2022, 1190, 339258.	5.4	3
3	Advanced statistical tools and machine learning applied to elemental analysis associated with medical conditions. <i>Comprehensive Analytical Chemistry</i> , 2022, , .	1.3	1
4	Is MIP-OES a suitable alternative to ICP-OES for trace element analysis?. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 966-984.	3.0	8
5	The Case of the Limit of Detection. <i>Brazilian Journal of Analytical Chemistry</i> , 2022, 9, 8-9.	0.5	2
6	Matrix-matched two-point calibration based on the standard dilution analysis method. <i>Microchemical Journal</i> , 2021, 160, 105740.	4.5	5
7	Machine learning tools to estimate the severity of matrix effects and predict analyte recovery in inductively coupled plasma optical emission spectrometry. <i>Talanta</i> , 2021, 223, 121665.	5.5	12
8	Evaluation of different approaches to applying the standard additions calibration method. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 1293-1302.	3.7	8
9	Effect of Genetic Crossing and Nutritional Management on the Mineral Composition of Carcass, Blood, Leather, and Viscera of Sheep. <i>Biological Trace Element Research</i> , 2021, 199, 4133-4144.	3.5	2
10	Low Doses of Silver Nanoparticles Selectively Induce Lipid Peroxidation and Proteotoxic Stress in Mesenchymal Subtypes of Triple-Negative Breast Cancer. <i>Cancers</i> , 2021, 13, 4217.	3.7	7
11	A genome-wide screen reveals the involvement of enterobactin-mediated iron acquisition in <i>Escherichia coli</i> survival during copper stress. <i>Metallomics</i> , 2021, 13, .	2.4	11
12	Copper Resistance Promotes Fitness of Methicillin-Resistant <i>Staphylococcus aureus</i> during Urinary Tract Infection. <i>MBio</i> , 2021, 12, e0203821.	4.1	17
13	The mechanism of cell death induced by silver nanoparticles is distinct from silver cations. <i>Particle and Fibre Toxicology</i> , 2021, 18, 37.	6.2	45
14	Automated standard dilution analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 178-187.	3.0	13
15	ICP-MS and trace element analysis as tools for better understanding medical conditions. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 133, 116094.	11.4	37
16	Copper primes adaptation of uropathogenic <i>Escherichia coli</i> to superoxide stress by activating superoxide dismutases. <i>PLoS Pathogens</i> , 2020, 16, e1008856.	4.7	12
17	Survey of Lead in Drinking Water from Schools and Child Care Centers Operating as Public Water Suppliers in North Carolina, USA: Implications for Future Legislation. <i>Environmental Science & Technology</i> , 2020, 54, 14152-14160.	10.0	15
18	Calculating limits of detection and defining working ranges for multi-signal calibration methods. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 1614-1620.	3.0	24

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19	Non-analyte signals and supervised learning to evaluate matrix effects and predict analyte recoveries in inductively coupled plasma optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 679-692.	3.0	7
20	Soil nutrients and precipitation are major drivers of global patterns of grass leaf silicification. <i>Ecology</i> , 2020, 101, e03006.	3.2	36
21	Decomartmentalized Knowledge and Core Analytical Chemistry Concepts. <i>Brazilian Journal of Analytical Chemistry</i> , 2020, 7, .	0.5	0
22	Combining elemental analysis of toenails and machine learning techniques as a non-invasive diagnostic tool for the robust classification of type-2 diabetes. <i>Expert Systems With Applications</i> , 2019, 115, 245-255.	7.6	41
23	Relationship between Selenium and Hematological Markers in Young Adults with Normal Weight or Overweight/Obesity. <i>Antioxidants</i> , 2019, 8, 463.	5.1	21
24	Silver nanoparticles selectively treat triple-negative breast cancer cells without affecting non-malignant breast epithelial cells in vitro and in vivo. <i>FASEB BioAdvances</i> , 2019, 1, 639-660.	2.4	59
25	A Low Iron Diet Protects from Steatohepatitis in a Mouse Model. <i>Nutrients</i> , 2019, 11, 2172.	4.1	7
26	Automated matrix-matching calibration using standard dilution analysis with two internal standards and a simple three-port mixing chamber. <i>Talanta</i> , 2019, 205, 120160.	5.5	15
27	Evaluating the applicability of multi-energy calibration as an alternative method for quantitative molecular spectroscopy analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 221, 117221.	3.9	10
28	Recent developments in microwave-induced plasma optical emission spectrometry and applications of a commercial Hammer-cavity instrument. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 116, 151-157.	11.4	47
29	Effects of platinum-based anticancer drugs on the trace element profile of liver and kidney tissue from mice. <i>Journal of Trace Elements in Medicine and Biology</i> , 2019, 54, 62-68.	3.0	12
30	Multi-flow calibration applied to microwave-induced plasma optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1191-1197.	3.0	16
31	Identifying and assessing matrix effect severity in inductively coupled plasma optical emission spectrometry using non-analyte signals and unsupervised learning. <i>Analytica Chimica Acta</i> , 2019, 1062, 37-46.	5.4	7
32	Multi-energy calibration for the determination of non-metals by high-resolution continuum source molecular absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 972-978.	3.0	15
33	Effect of the nonleaving groups on the cellular uptake and cytotoxicity of platinum-acridine anticancer agents. <i>Inorganica Chimica Acta</i> , 2019, 492, 150-155.	2.4	7
34	Fundamentals and new approaches to calibration in atomic spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 2353-2369.	3.0	34
35	Cesium Oleate Precursor Preparation for Lead Halide Perovskite Nanocrystal Synthesis: The Influence of Excess Oleic Acid on Achieving Solubility, Conversion, and Reproducibility. <i>Chemistry of Materials</i> , 2019, 31, 62-67.	6.7	55
36	Multi-energy calibration as a strategy for elemental analysis of fertilizers by microwave-induced plasma optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1168-1172.	3.0	39

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37	Multispecies calibration: a novel application for inductively coupled plasma tandem mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 762-767.	3.0	24
38	Investigating the origins of double photopeaks in CsI:Tl samples through activator mapping. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 893, 151-156.	1.6	1
39	Multi-isotope calibration for inductively coupled plasma mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1157-1162.	3.7	31
40	Traditional Calibration Methods in Atomic Spectrometry and New Calibration Strategies for Inductively Coupled Plasma Mass Spectrometry. <i>Frontiers in Chemistry</i> , 2018, 6, 504.	3.6	78
41	Naturally occurring molecular species used for plasma diagnostics and signal correction in microwave-induced plasma optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1224-1232.	3.0	22
42	Multi-energy calibration (MEC) applied to laser-induced breakdown spectroscopy (LIBS). <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1753-1762.	3.0	39
43	Dry ashing and microwave-induced plasma optical emission spectrometry as a fast and cost-effective strategy for trace element analysis. <i>Microchemical Journal</i> , 2017, 132, 15-19.	4.5	15
44	Trace element analysis of urine by ICP-MS/MS to identify urinary tract infection. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1590-1594.	3.0	7
45	Recent advances in inductively coupled plasma optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1283-1296.	3.0	84
46	Expanding the potentialities of standard dilution analysis: Determination of ethanol in gasoline by Raman spectroscopy. <i>Microchemical Journal</i> , 2017, 133, 76-80.	4.5	24
47	Copper Is a Host Effector Mobilized to Urine during Urinary Tract Infection To Impair Bacterial Colonization. <i>Infection and Immunity</i> , 2017, 85, .	2.2	48
48	Microwave-Induced Plasma Optical Emission Spectrometry (MIP OES) and Standard Dilution Analysis to Determine Trace Elements in Pharmaceutical Samples. <i>Applied Spectroscopy</i> , 2017, 71, 2692-2698.	2.2	31
49	Multi-energy calibration applied to atomic spectrometry. <i>Analytica Chimica Acta</i> , 2017, 982, 31-36.	5.4	64
50	Determination of Trace Elements in Cow Placenta by Tungsten Coil Atomic Emission Spectrometry. <i>Biological Trace Element Research</i> , 2017, 178, 228-234.	3.5	2
51	Variation in the soil $\delta^{15}\text{Si}$ landscape explains plant silica accumulation across environmental gradients in Serengeti. <i>Plant and Soil</i> , 2017, 410, 217-229.	3.7	27
52	Trace Element Analysis of Fusel Oil by Microwave-Induced Plasma Optical Emission Spectrometry. <i>Current Analytical Chemistry</i> , 2017, 13, .	1.2	8
53	Signal correction using molecular species to improve biodiesel analysis by microwave-induced plasma optical emission spectrometry. <i>Microchemical Journal</i> , 2016, 129, 58-62.	4.5	27
54	Structural and mechanical characterization of bioresorbable, elastomeric nanocomposites from poly(glycerol sebacate)/nanohydroxyapatite for tissue transport applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 1366-1373.	3.4	13

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55	Evaluation of standard dilution analysis (SDA) of beverages and foodstuffs by ICP OES. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1216-1222.	3.0	29
56	Characteristics of a resonant iris microwave-induced nitrogen plasma. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1097-1104.	3.0	44
57	Inductively coupled plasma mass spectrometry and standard dilution analysis applied to concentrated acids. <i>Talanta</i> , 2016, 161, 826-829.	5.5	16
58	Design and cellular studies of a carbon nanotube-based delivery system for a hybrid platinum-acridine anticancer agent. <i>Journal of Inorganic Biochemistry</i> , 2016, 165, 170-180.	3.5	15
59	Inductively coupled plasma optical emission spectrometry as a reference method for silicon estimation by near infrared spectroscopy and potential application to global-scale studies of plant chemistry. <i>Microchemical Journal</i> , 2016, 129, 231-235.	4.5	7
60	Evaluation of Tungsten Coil Atomic Emission Spectrometry for the Direct Determination of Al in Tea Infusions and Iced Tea. <i>Food Analytical Methods</i> , 2016, 9, 624-629.	2.6	1
61	Standard dilution analysis of beverages by microwave-induced plasma optical emission spectrometry. <i>Analytica Chimica Acta</i> , 2016, 909, 24-29.	5.4	48
62	Standard dilution analysis in flow system: Sodium determination by flame atomic emission spectrometry. <i>Microchemical Journal</i> , 2016, 124, 662-667.	4.5	15
63	The reversed-axis method to estimate precision in standard additions analysis. <i>Microchemical Journal</i> , 2016, 124, 155-158.	4.5	19
64	Standard Dilution Analysis. <i>Analytical Chemistry</i> , 2015, 87, 2321-2327.	6.5	42
65	Direct determination of chromium in empty medicine capsules by tungsten coil atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1395-1399.	3.0	13
66	Internal standard addition calibration: Determination of calcium and magnesium by atomic absorption spectrometry. <i>Microchemical Journal</i> , 2015, 122, 63-69.	4.5	25
67	Chemical modification in atomic emission: Determination of V in lubricant oils by tungsten coil atomic emission spectrometry. <i>Microchemical Journal</i> , 2014, 115, 58-62.	4.5	7
68	Magnesium nitrate as a chemical modifier to improve sensitivity in manganese determination in plant materials by tungsten coil atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1499-1503.	3.0	5
69	The interference standard method: evidence of principle, potentialities and limitations. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1258-1264.	3.0	8
70	Differential response of MCF7, MDA-MB-231, and MCF 10A cells to hyperthermia, silver nanoparticles and silver nanoparticle-induced photothermal therapy. <i>International Journal of Hyperthermia</i> , 2014, 30, 312-323.	2.5	57
71	Evaluation of Mg and Mn determination in water and plants using continuum source tungsten coil atomic fluorescence spectrometry. <i>Microchemical Journal</i> , 2014, 117, 250-254.	4.5	6
72	Direct determination of sodium, potassium, chromium and vanadium in biodiesel fuel by tungsten coil atomic emission spectrometry. <i>Analytica Chimica Acta</i> , 2014, 806, 85-90.	5.4	21

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73	Bismuth as a general internal standard for lead in atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 2014, 831, 24-30.	5.4	16
74	Evaluation of sample preparation procedures and krypton as an interference standard probe for arsenic speciation by HPLC-ICP-QMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 1303.	3.0	13
75	Tungsten coil electrothermal matrix decomposition and sample vaporization to determine P and Si in biodiesel by inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 280-287.	3.0	19
76	Evaluation of atomizer conditioning and pyrolysis and atomization temperature control to improve procedures based on tungsten coil atomic emission spectrometry. <i>Microchemical Journal</i> , 2013, 110, 758-763.	4.5	6
77	Cobalt as chemical modifier to improve chromium sensitivity and minimize matrix effects in tungsten coil atomic emission spectrometry. <i>Analytica Chimica Acta</i> , 2013, 780, 7-12.	5.4	5
78	Determination of Cr, Ni, Pb and V in gasoline and ethanol fuel by microwave plasma optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 755.	3.0	67
79	Greening sample preparation in inorganic analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 45, 79-92.	11.4	65
80	A simple dilute-and-shoot procedure for Si determination in diesel and biodiesel by microwave-induced plasma optical emission spectrometry. <i>Microchemical Journal</i> , 2013, 106, 318-322.	4.5	61
81	Enzymatic proteolysis and in situ digestion as strategies to determine Cs and Sr in fish by tungsten coil atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 2082.	3.0	6
82	Interference standard and oxide ion detection as strategies to determine phosphorus and sulfur in fuel samples by inductively coupled plasma quadrupole mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1274.	3.0	15
83	In situ digestion for the determination of Ca in beverages by tungsten coil atomic emission spectrometry. <i>Talanta</i> , 2012, 97, 285-290.	5.5	6
84	Interference standard applied to sulfur determination in biodiesel microemulsions by ICP-QMS. <i>Journal of the Brazilian Chemical Society</i> , 2012, 23, 797-803.	0.6	16
85	Strategies to improve accuracy and sensitivity in phosphorus determinations by inductively coupled plasma quadrupole mass spectrometry. <i>Journal of the Brazilian Chemical Society</i> , 2012, 23, 786-791.	0.6	8
86	Development of a novel spectrometric-based temperature probe and the investigation of atomic cloud generation in a tungsten coil atomizer. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 838.	3.0	13
87	Rugged, Portable Tungsten Coil Atomic Emission Spectrometer. <i>Analytical Chemistry</i> , 2011, 83, 2526-2531.	6.5	25
88	Focused-microwave-induced combustion: investigation of KClO ₃ thermal decomposition as O ₂ source. <i>Analytical Methods</i> , 2011, 3, 1688.	2.7	5
89	Application of the interference standard method for the determination of sulfur, manganese and iron in foods by inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2011, 706, 223-228.	5.4	22
90	Continuum Source Tungsten Coil Atomic Fluorescence Spectrometry. <i>Applied Spectroscopy</i> , 2011, 65, 382-385.	2.2	7

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91	Interference standard: a new approach to minimizing spectral interferences in inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1827.	3.0	19
92	A new atomization cell for trace metal determinations by tungsten coil atomic spectrometry. <i>Analytica Chimica Acta</i> , 2011, 688, 36-42.	5.4	20
93	Old and New Flavors of Flame (Furnace) Atomic Absorption Spectrometry. <i>International Journal of Spectroscopy</i> , 2011, 2011, 1-30.	1.6	7
94	Evaluation of metabisulfite and a commercial steel wool for removing chromium(VI) from wastewater. <i>Environmental Chemistry Letters</i> , 2010, 8, 73-77.	16.2	5
95	Multi-Wavelength Determination of Cobalt by Tungsten Coil Atomic Emission Spectrometry. <i>Analytical Letters</i> , 2010, 43, 1723-1733.	1.8	11
96	Simultaneous determination of Cr, Ga, In and V in soil and water samples by tungsten coil atomic emission spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 559-564.	2.9	22
97	Indirect determination of iodide by tungsten coil atomic emission spectrometry. <i>Microchemical Journal</i> , 2009, 93, 242-246.	4.5	10
98	An overview of electrothermal excitation sources for atomic emission spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 191-198.	2.9	17
99	Double tungsten coil atomic emission spectrometry: signal enhancement and a new gas phase temperature probe. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 1105.	3.0	17
100	Determination of Cd in urine by cloud point extraction and tungsten coil atomic absorption spectrometry. <i>Talanta</i> , 2008, 76, 1252-1255.	5.5	33
101	Simultaneous determination of the Lanthanides by tungsten coil atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 361-366.	3.0	35
102	Sampling and Sample Homogeneity as Introductory Topics in Analytical Chemistry Undergraduate Courses. <i>Spectroscopy Letters</i> , 2008, 41, 251-257.	1.0	3
103	Acid extraction and cloud point preconcentration as sample preparation strategies for cobalt determination in biological materials by thermospray flame furnace atomic absorption spectrometry. <i>Microchemical Journal</i> , 2006, 82, 189-195.	4.5	86
104	Trace Element Analysis, Model-Based Clustering and Flushing to Prevent Drinking Water Contamination in Public Schools. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	4
105	Alternative Approaches Applied to Inductively Coupled Plasma Techniques: Multi-Flow and Two-Flow Calibration. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	0