Rosario Pereiro

List of Publications by Year in Descending Order

219 papers	4,968 citations	33 h-index	57 g-index
234 ext. papers	5,333 ext. citations	4.9 avg, IF	5.47 L-index

#	Paper	IF	Citations
219	Gold nanoclusters as elemental label for the sequential quantification of apolipoprotein E and metallothionein 2A in individual human cells of the retinal pigment epithelium using single cell-ICP-MS.. *Analytica Chimica Acta*, **2022**, 1203, 339701	6.6	0
218	Iridium nanoclusters as high sensitive-tunable elemental labels for immunoassays: Determination of IgE and APOE in aqueous humor by inductively coupled plasma-mass spectrometry.. *Talanta*, **2022**, 244, 123424	6.2	2
217	Targeted Analysis of Tears Revealed Specific Altered Metal Homeostasis in Age-Related Macular Degeneration. **2022**, 63, 10		0
216	General purification methods of metal nanoclusters **2022**, 161-186		
215	Synthesis of Iridium and Palladium Nanoclusters for Biomedical Applications. *Materials Proceedings*, **2021**, 4, 49	0.3	
214	Homeostatic alterations related to total antioxidant capacity, elemental concentrations and isotopic compositions in aqueous humor of glaucoma patients. *Analytical and Bioanalytical Chemistry*, **2021**, 1	4.4	1
213	Multiplex bioimaging of proteins-related to neurodegenerative diseases in eye sections by laser ablation - Inductively coupled plasma - Mass spectrometry using metal nanoclusters as labels. *Talanta*, **2021**, 221, 121489	6.2	11
212	Antioxidant Defenses in the Human Eye: A Focus on Metallothioneins. *Antioxidants*, **2021**, 10,	7.1	15
211	Pulsed radiofrequency glow discharge time-of-flight mass spectrometry: Depth profile analysis of multilayers on conductive and non-conductive substrates. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2020**, 168, 105865	3.1	2
210	Imaging of proteins in biological tissues by fluorescence microscopy and laser ablation-ICP-MS using natural and isotopically enriched silver nanoclusters. *Journal of Analytical Atomic Spectrometry*, **2020**, 35, 1868-1879	3.7	7
209	Nanoparticles as labels of specific-recognition reactions for the determination of biomolecules by inductively coupled plasma-mass spectrometry. *Analytica Chimica Acta*, **2020**, 1128, 251-268	6.6	14
208	Pilot study of homeostatic alterations of mineral elements in serum of patients with age-related macular degeneration via elemental and isotopic analysis using ICP-mass spectrometry. *Journal of Pharmaceutical and Biomedical Analysis*, **2020**, 177, 112857	3.5	8
207	Laser ablation ICP-MS for simultaneous quantitative imaging of iron and ferroportin in hippocampus of human brain tissues with Alzheimer's disease. *Talanta*, **2019**, 197, 413-421	6.2	39
206	Plasma profiling-time of flight mass spectrometry: considerations to exploit its analytical performance for materials characterization. *Journal of Analytical Atomic Spectrometry*, **2019**, 34, 702-707	3.7	1
205	Fluorescent silver nanoclusters as antibody label in a competitive immunoassay for the complement factor H. *Mikrochimica Acta*, **2019**, 186, 429	5.8	10
204	Isotopically Enriched Tracers and Inductively Coupled Plasma Mass Spectrometry Methodologies to Study Zinc Supplementation in Single-Cells of Retinal Pigment Epithelium in Vitro. *Analytical Chemistry*, **2019**, 91, 4488-4495	7.8	6
203	Bimodal determination of immunoglobulin E by fluorometry and ICP-MS by using platinum nanoclusters as a label in an immunoassay. *Mikrochimica Acta*, **2019**, 186, 705	5.8	9

202	Quantitative mapping of specific proteins in biological tissues by laser ablation-ICP-MS using exogenous labels: aspects to be considered. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 549-558	4.4	18
201	Rapid evaluation of different perovskite absorber layers through the application of depth profile analysis using glow discharge - Time of flight mass spectrometry. *Talanta*, **2019**, 192, 317-324	6.2	2
200	Technical note: Characterization of gold coated ceramics by radiofrequency pulsed glow discharge Time of flight mass spectrometry. *Journal of Analytical Atomic Spectrometry*, **2018**, 33, 502-507	3.7	5
199	Silicon induced Fe deficiency affects Fe, Mn, Cu and Zn distribution in rice (Oryza sativa L.) growth in calcareous conditions. *Plant Physiology and Biochemistry*, **2018**, 125, 153-163	5.4	15
198	Quantitative study of zinc and metallothioneins in the human retina and RPE cells by mass spectrometry-based methodologies. *Talanta*, **2018**, 178, 222-230	6.2	13
197	Atomic Absorpton Spectrometry | Fundamentals, Instrumentation and Capabilities **2018**, 137-137		4
196	Atomic Mass Spectrometry/LA-ICP-MS **2018**, 218-218		
195	Opportunities and challenges of isotopic analysis by laser ablation ICP-MS in biological studies. *TrAC - Trends in Analytical Chemistry*, **2018**, 105, 380-390	14.6	17
194	The Zinc-Metallothionein Redox System Reduces Oxidative Stress in Retinal Pigment Epithelial Cells. *Nutrients*, **2018**, 10,	6.7	22
193	Elemental Direct Solid Analysis (GD-OES, LIBS, GD-MS and LA-ICP-MS) **2018**, 1-1		
192	Quantitative Imaging of Specific Proteins in the Human Retina by Laser Ablation ICPMS using Bioconjugated Metal Nanoclusters as Labels. *Analytical Chemistry*, **2018**, 90, 12145-12151	7.8	18
191	Iron and Zinc in the Embryo and Endosperm of Rice (L.) Seeds in Contrasting 2′-Deoxymugineic Acid/Nicotianamine Scenarios. *Frontiers in Plant Science*, **2018**, 9, 1190	6.2	29
190	Characterization of thin film tandem solar cells by radiofrequency pulsed glow discharge - Time of flight mass spectrometry. *Talanta*, **2017**, 165, 289-296	6.2	11
189	Exhaled breath and oral cavity VOCs as potential biomarkers in oral cancer patients. *Journal of Breath Research*, **2017**, 11, 016015	3.1	32
188	Quantitative distribution of Zn, Fe and Cu in the human lens and study of the Zn metallothionein redox system in cultured lens epithelial cells by elemental MS. *Journal of Analytical Atomic Spectrometry*, **2017**, 32, 1746-1756	3.7	10
187	Depth profile analysis of rare earth elements in corroded steels by pulsed glow discharge Time of flight mass spectrometry. *Journal of Analytical Atomic Spectrometry*, **2017**, 32, 1306-1311	3.7	8
186	Volatile organic compound analysis by pulsed glow discharge time of flight mass spectrometry as a structural elucidation tool. *Journal of Mass Spectrometry*, **2017**, 52, 561-570	2.2	3
185	Depth profile analysis with glow discharge spectrometry. *Journal of Analytical Atomic Spectrometry*, **2017**, 32, 920-930	3.7	28

184	Elemental and isotopic analysis of oral squamous cell carcinoma tissues using sector-field and multi-collector ICP-mass spectrometry. *Talanta*, **2017**, 165, 92-97	6.2	19
183	Synthesis of amino-functionalized silica nanoparticles for preparation of new laboratory standards. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2017**, 138, 1-7	3.1	7
182	Bioimaging of metallothioneins in ocular tissue sections by laser ablation-ICP-MS using bioconjugated gold nanoclusters as specific tags. *Mikrochimica Acta*, **2017**, 185, 64	5.8	22
181	Evaluation of different strategies for quantitative depth profile analysis of Cu/NiCu layers and multilayers via pulsed glow discharge Time of flight mass spectrometry. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2017**, 135, 34-41	3.1	10
180	Functionalized gold nanoclusters as fluorescent labels for immunoassays: Application to human serum immunoglobulin E determination. *Biosensors and Bioelectronics*, **2016**, 77, 1055-61	11.8	40
179	Flow Injection Analysis Techniques in Atomic Spectroscopy **2016**, 1-28		
178	A flowing atmospheric pressure afterglow as an ion source coupled to a differential mobility analyzer for volatile organic compound detection. *Analyst, The*, **2016**, 141, 3437-43	5	4
177	Capabilities of radiofrequency pulsed glow discharge-time of flight mass spectrometry for molecular screening in polymeric materials: positive versus negative ion mode. *Journal of Analytical Atomic Spectrometry*, **2016**, 31, 212-219	3.7	6
176	Evaluation of the temporal profiles and the analytical features of a laser ablation Pulsed glow discharge coupling for optical emission spectrometry. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2016**, 121, 47-54	3.1	7
175	Depth profile analysis of amorphous silicon thin film solar cells by pulsed radiofrequency glow discharge time of flight mass spectrometry. *Journal of the American Society for Mass Spectrometry*, **2015**, 26, 305-14	3.5	8
174	Pulsed radiofrequency glow discharge time of flight mass spectrometry for coated glass analysis. *Journal of Analytical Atomic Spectrometry*, **2015**, 30, 1108-1116	3.7	13
173	Aqueous synthesis of near-infrared highly fluorescent platinum nanoclusters. *Nanotechnology*, **2015**, 26, 215601	3.4	14
172	Analytical potential of a laser ablation-glow discharge-optical emission spectrometry system for the analysis of conducting and insulating materials. *Analytica Chimica Acta*, **2015**, 877, 33-40	6.6	9
171	Nanomodificated Surface CoCr Alloy for Corrosion Protection of MoM Prosthesis. *Journal of Biomaterials and Nanobiotechnology*, **2015**, 06, 91-99	1	1
170	Improving pulsed radiofrequency glow discharge for time-of-flight mass spectrometry simultaneous elemental and molecular analysis. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 7431-43	4.4	
169	Quantitative bioimaging of trace elements in the human lens by LA-ICP-MS. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 2343-8	4.4	39
168	Mass Spectrometry for the Characterization of Gold Nanoparticles. *Comprehensive Analytical Chemistry*, **2014**, 66, 329-356	1.9	10
167	On-line double isotope dilution laser ablation inductively coupled plasma mass spectrometry for the quantitative analysis of solid materials. *Analytica Chimica Acta*, **2014**, 851, 64-71	6.6	18

166	A quantum dot-based immunoassay for screening of tetracyclines in bovine muscle. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 1733-40	5.7	37
165	Characterization of a new mobility separation tool: HRIMS as differential mobility analyzer. *Talanta*, **2014**, 130, 400-7	6.2	1
164	A Possible Growth Mechanism for ZnO-TiO2Composite Nanostructured Films Prepared by Electrodeposition. *Journal of the Electrochemical Society*, **2014**, 161, D125-D133	3.9	12
163	Nanostructural transformations of silver nanoclusters occurring during their synthesis and after interaction with UV-light. *Materials Research Express*, **2014**, 1, 015039	1.7	9
162	Photoluminescent Nanoparticles for Optical Imaging in Biology and Medicine. *Frontiers in Nanobiomedical Research*, **2014**, 307-344		
161	A path towards a better characterisation of silicon thin-film solar cells: depth profile analysis by pulsed radiofrequency glow discharge optical emission spectrometry. *Progress in Photovoltaics: Research and Applications*, **2014**, 22, 1246-1255	6.8	10
160	Use of radiofrequency power to enable glow discharge optical emission spectroscopy ultrafast elemental mapping of combinatorial libraries with nonconductive components: nitrogen-based materials. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 7533-8	4.4	6
159	Design and evaluation of a new Peltier-cooled laser ablation cell with on-sample temperature control. *Analytica Chimica Acta*, **2014**, 809, 88-96	6.6	29
158	Gold internal standard correction for elemental imaging of soft tissue sections by LA-ICP-MS: element distribution in eye microstructures. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 3091-6	4.4	49
157	Room temperature phosphorimetric determination of bromate in flour based on energy transfer. *Talanta*, **2013**, 116, 231-6	6.2	8
156	Elemental analyses of soil and sediment fused with lithium borate using isotope dilution laser ablation-inductively coupled plasma-mass spectrometry. *Analytica Chimica Acta*, **2013**, 793, 72-8	6.6	16
155	One-step aqueous synthesis of fluorescent copper nanoclusters by direct metal reduction. *Nanotechnology*, **2013**, 24, 495601	3.4	33
154	Synthesis and characterization of hapten-quantum dots bioconjugates: Application to development of a melamine fluorescentimmunoassay. *Talanta*, **2013**, 106, 243-8	6.2	13
153	Isotope dilution mass spectrometry for quantitative elemental analysis of powdered samples by radiofrequency pulsed glow discharge time of flight mass spectrometry. *Talanta*, **2013**, 115, 657-64	6.2	5
152	Challenging identifications of polymer coatings by radiofrequency pulsed glow discharge-time of flight mass spectrometry. *Journal of Analytical Atomic Spectrometry*, **2013**, 28, 1054	3.7	7
151	Critical evaluation of the potential of radiofrequency pulsed glow discharge-time-of-flight mass spectrometry for depth-profile analysis of innovative materials. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 5655-62	4.4	26
150	CHAPTER 1:An Overview of Atomic Spectrometric Techniques. *Metal Ions in Life Sciences*, **2013**, 1-51		
149	Atomic Spectrometry **2013**,		2

148	Elemental and molecular detection for Quantum Dots-based immunoassays: a critical appraisal. *Biosensors and Bioelectronics*, **2012**, 33, 165-71	11.8	42
147	Reusable phosphorescent probes based on molecularly imprinted polymers for the determination of propranolol in urine. *Sensors and Actuators B: Chemical*, **2012**, 168, 370-375	8.5	13
146	RF-pulsed glow discharge time-of-flight mass spectrometry for glass analysis: investigation of the ion source design. *Analytica Chimica Acta*, **2012**, 756, 30-6	6.6	11
145	Influence of the hydrogen contained in amorphous silicon thin films on a pulsed radiofrequency argon glow discharge coupled to time of flight mass spectrometry. Comparison with the addition of hydrogen as discharge gas. *Journal of Analytical Atomic Spectrometry*, **2012**, 27, 71-79	3.7	8
144	Endogenous and exogenous hydrogen influence on amorphous silicon thin films analysis by pulsed radiofrequency glow discharge optical emission spectrometry. *Analytica Chimica Acta*, **2012**, 714, 1-7	6.6	7
143	An ion source for radiofrequency-pulsed glow discharge time-of-flight mass spectrometry. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2012**, 76, 159-165	3.1	10
142	Analysis of thin and thick Films **2012**, 943-959		1
141	Plasma immersion ion implantation for reducing metal ion release **2012**,		1
140	Pulsed glow discharge time of flight mass spectrometry for the screening of polymer-based coatings containing brominated flame retardants. *Journal of Analytical Atomic Spectrometry*, **2012**, 27, 318-326	3.7	14
139	Laser ablation ICP-MS for quantitative biomedical applications. *Analytical and Bioanalytical Chemistry*, **2012**, 403, 2113-25	4.4	98
138	Absolute quantification of human serum transferrin by species-specific isotope dilution laser ablation ICP-MS. *Analytical Chemistry*, **2011**, 83, 5353-60	7.8	33
137	Analytical performance of pulsed radiofrequency glow discharge optical emission spectrometry for bulk and in-depth profile analysis of conductors and insulators. *Journal of Analytical Atomic Spectrometry*, **2011**, 26, 776-783	3.7	10
136	Depth profile characterization of Zn-TiO2 nanocomposite films by pulsed radiofrequency glow discharge-optical emission spectrometry. *Talanta*, **2011**, 84, 572-8	6.2	15
135	A purged argon pre-chamber for analytical glow dischargeTime of flight mass spectrometry applications. *Journal of Analytical Atomic Spectrometry*, **2011**, 26, 798-803	3.7	9
134	Electrodeposition of Metal Matrix Nanocomposites: Improvement of the Chemical Characterization Techniques **2011**,		12
133	Fluorescent conjugated polymers for chemical and biochemical sensing. *TrAC - Trends in Analytical Chemistry*, **2011**, 30, 1513-1525	14.6	86
132	Development of a quantum dot-based fluorescent immunoassay for progesterone determination in bovine milk. *Biosensors and Bioelectronics*, **2011**, 26, 4753-9	11.8	55
131	Nanoparticles as fluorescent labels for optical imaging and sensing in genomics and proteomics. *Analytical and Bioanalytical Chemistry*, **2011**, 399, 29-42	4.4	95

130	Elemental ratio determinations and compound-independent calibration using microsecond pulsed glow discharge time-of-flight mass spectrometry. *Analytical and Bioanalytical Chemistry*, **2011**, 401, 2771-7	4.4	7
129	Investigation of the afterglow time regime in pulsed radiofrequency glow discharge time-of-flight mass spectrometry. *Journal of Mass Spectrometry*, **2011**, 46, 757-63	2.2	9
128	New integrated elemental and molecular strategies as a diagnostic tool for the quality of water soluble quantum dots and their bioconjugates. *Nanoscale*, **2011**, 3, 954-7	7.7	31
127	Plasma-based mass spectrometry for simultaneous acquisition of elemental and molecular information. *Analyst, The*, **2011**, 136, 246-56	5	14
126	P, S and Cl trace detection by laser ablation double-focusing sector field ICP-MS to identify local defects in coated glasses. *Journal of Analytical Atomic Spectrometry*, **2011**, 26, 1526	3.7	4
125	Quantitative depth profiling of boron and arsenic ultra low energy implants by pulsed rf-GD-ToFMS. *Journal of Analytical Atomic Spectrometry*, **2011**, 26, 542-549	3.7	18
124	Pulsed radiofrequency glow discharge time-of-flight mass spectrometry for nanostructured materials characterization. *Analytical Chemistry*, **2011**, 83, 329-37	7.8	22
123	Conjugated polymer microspheres for "turn-off"/"turn-on" fluorescence optosensing of inorganic ions in aqueous media. *Analytical Chemistry*, **2011**, 83, 2712-8	7.8	44
122	Quantitative depth profile analysis of metallic coatings by pulsed radiofrequency glow discharge optical emission spectrometry. *Analytica Chimica Acta*, **2011**, 684, 38-44	6.6	11
121	Present and future of glow discharge Time of flight mass spectrometry in analytical chemistry. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2011**, 66, 399-412	3.1	37
120	Studies on the Stability of Zn and Zn TiO[sub 2] Nanocomposite Coatings Prepared by Pulse Reverse Current. *Journal of the Electrochemical Society*, **2011**, 158, C63	3.9	4
119	Characterization of doped amorphous silicon thin films through the investigation of dopant elements by glow discharge spectrometry: a correlation of conductivity and bandgap energy measurements. *International Journal of Molecular Sciences*, **2011**, 12, 2200-15	6.3	3
118	In-depth profile analysis of filled alumina and titania nanostructured templates by radiofrequency glow discharge coupled to optical emission spectrometry. *Analytical and Bioanalytical Chemistry*, **2010**, 396, 2833-40	4.4	10
117	Evaluation of a glow discharge chamber coupled to time of flight mass spectrometry for the analysis of small gas volumes and bubbles in glass. *Journal of Analytical Atomic Spectrometry*, **2010**, 25, 1612	3.7	8
116	Gas chromatography coupled to tunable pulsed glow discharge time-of-flight mass spectrometry for environmental analysis. *Analyst, The*, **2010**, 135, 987-93	5	9
115	Improvement of the analytical performance in RF-GD-OES for non-conductive materials by means of thin conductive layer deposition and the presence of a magnetic field. *Journal of Analytical Atomic Spectrometry*, **2010**, 25, 1247	3.7	9
114	Pulsed radiofrequency glow discharge optical emission spectrometry for the direct characterisation of photovoltaic thin film silicon solar cells. *Journal of Analytical Atomic Spectrometry*, **2010**, 25, 370	3.7	20
113	Inorganic mass spectrometry as a tool for characterisation at the nanoscale. *Analytical and Bioanalytical Chemistry*, **2010**, 396, 15-29	4.4	52

112	Polymer screening by radiofrequency glow discharge time-of-flight mass spectrometry. *Analytical and Bioanalytical Chemistry*, **2010**, 396, 2863-9	4.4	20
111	Time-resolved measurement of emission profiles in pulsed radiofrequency glow discharge optical emission spectroscopy: Investigation of the pre-peak. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2010**, 65, 533-541	3.1	17
110	Glow discharge analysis of nanostructured materials and nanolayers--a review. *Analytica Chimica Acta*, **2010**, 679, 7-16	6.6	26
109	Analysis of small bubbles in glass by glow discharge--time-of-flight mass spectrometry. *Analytica Chimica Acta*, **2009**, 652, 272-7	6.6	8
108	Halogenated molecularly imprinted polymers for selective determination of carbaryl by phosphorescence measurements. *Analytical and Bioanalytical Chemistry*, **2009**, 394, 1569-76	4.4	11
107	Tuneable microsecond-pulsed glow discharge design for the simultaneous acquisition of elemental and molecular chemical information using a time-of-flight mass spectrometer. *Analytical Chemistry*, **2009**, 81, 2591-9	7.8	23
106	A comparison of non-pulsed radiofrequency and pulsed radiofrequency glow discharge orthogonal time-of-flight mass spectrometry for analytical purposes. *Journal of Analytical Atomic Spectrometry*, **2009**, 24, 1373	3.7	48
105	Chapter 1:A General Overview of Atomic Spectrometric Techniques. *Metal Ions in Life Sciences*, **2009**, 1-50		
104	Pulsed radiofrequency glow discharge time of flight mass spectrometer for the direct analysis of bulk and thin coated glasses. *Journal of Analytical Atomic Spectrometry*, **2008**, 23, 1239	3.7	51
103	Electrolyte influence on the anodic synthesis of TiO2 nanotube arrays. *Journal of Non-Crystalline Solids*, **2008**, 354, 5233-5235	3.9	36
102	Simple bio-conjugation of polymer-coated quantum dots with antibodies for fluorescence-based immunoassays. *Analyst, The*, **2008**, 133, 444-7	5	42
101	**2008**,		1
100	Hydrogen effects on copper, zinc and nickel atomic emission lines in argon radiofrequency glow discharge optical emission spectrometry. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2008**, 63, 692-699	3.1	7
99	Monte Carlo analysis of the electron thermalization process in the afterglow of a microsecond dc pulsed glow discharge. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2008**, 63, 1274-1282	3.1	7
98	Bromine determination in polymers by inductively coupled plasma-mass spectrometry and its potential for fast first screening of brominated flame retardants in polymers and paintings. *Analytica Chimica Acta*, **2008**, 623, 140-5	6.6	21
97	Rf glow discharge optical emission spectrometry for cleaning process control of oil residues in low alloy steel. *Journal of Analytical Atomic Spectrometry*, **2007**, 22, 411-414	3.7	2
96	Microsecond pulsed versus direct current glow discharge as ion sources for analytical glow discharge-time of flight mass spectrometry. *Journal of Analytical Atomic Spectrometry*, **2007**, 22, 1179	3.7	23
95	Direct screening of tetracyclines in water and bovine milk using room temperature phosphorescence detection. *Analytica Chimica Acta*, **2007**, 589, 51-8	6.6	47

94	An approach to calculate sputtering rates in glow discharges by using a new crater volume evaluation method. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2007**, 62, 1263-1268	3.1	7
93	Nitrogen effects in multi-matrix calibrations by radiofrequency glow discharge--optical emission spectrometry. *Analytical and Bioanalytical Chemistry*, **2007**, 389, 743-52	4.4	7
92	Modifying argon glow discharges by hydrogen addition: effects on analytical characteristics of optical emission and mass spectrometry detection modes. *Analytical and Bioanalytical Chemistry*, **2007**, 388, 1573-82	4.4	28
91	Quantification of bromine in flame-retardant coatings by radiofrequency glow discharge-optical emission spectrometry. *Analytical and Bioanalytical Chemistry*, **2007**, 389, 683-90	4.4	11
90	Bioanalytics and biolabeling with semiconductor nanoparticles (quantum dots). *Journal of Materials Chemistry*, **2007**, 17, 1343-1346		99
89	Room temperature phosphorescence optosensing of benzo[a]pyrene in water using halogenated molecularly imprinted polymers. *Analyst, The*, **2007**, 132, 218-23	5	62
88	In-depth profile analysis of thin films deposited on non-conducting glasses by radiofrequency glow-discharge-optical emission spectrometry. *Analytical and Bioanalytical Chemistry*, **2006**, 384, 876-86	4.4	10
87	Effect of H2/Ar mixtures on the analysis of conducting and insulating materials by radiofrequency glow discharge mass spectrometry. *Journal of Analytical Atomic Spectrometry*, **2006**, 21, 531-534	3.7	9
86	Application of radiofrequency glow discharge-optical emission spectrometry for direct analysis of main components of glass samples. *Journal of Analytical Atomic Spectrometry*, **2006**, 21, 1412-1418	3.7	5
85	Rf glow discharge optical emission spectrometry for the analysis of arrays of Ni nanowires in nanoporous alumina and titania membranes. *Physica Status Solidi (A) Applications and Materials Science*, **2006**, 203, 1241-1247	1.6	6
84	Glow-discharge spectrometry for direct analysis of thin and ultra-thin solid films. *TrAC - Trends in Analytical Chemistry*, **2006**, 25, 11-18	14.6	99
83	The use of luminescent quantum dots for optical sensing. *TrAC - Trends in Analytical Chemistry*, **2006**, 25, 207-218	14.6	427
82	Iodinated molecularly imprinted polymer for room temperature phosphorescence optosensing of fluoranthene. *Chemical Communications*, **2005**, 3224-6	5.8	29
81	Photoactivated luminescent CdSe quantum dots as sensitive cyanide probes in aqueous solutions. *Chemical Communications*, **2005**, 883-5	5.8	279
80	Flow-through optosensing of 1-naphthaleneacetic acid in water and apples by heavy atom induced-room temperature phosphorescence measurements. *Talanta*, **2005**, 66, 696-702	6.2	13
79	The effect of thin conductive layers on glass on the performance of radiofrequency glow discharge optical emission spectrometry. *Journal of Analytical Atomic Spectrometry*, **2005**, 20, 462-466	3.7	18
78	Radiofrequency glow discharge-optical emission spectrometry for the analysis of metallurgical-grade silicon. *Journal of Analytical Atomic Spectrometry*, **2005**, 20, 233-235	3.7	14
77	Molecularly imprinted polymers based on iodinated monomers for selective room-temperature phosphorescence optosensing of fluoranthene in water. *Analytical Chemistry*, **2005**, 77, 7005-11	7.8	46

76	H2/Ar direct current glow discharge mass spectrometry at constant voltage and pressure. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2005**, 60, 824-833	3.1	15
75	Surface-modified CdSe quantum dots for the sensitive and selective determination of Cu(II) in aqueous solutions by luminescent measurements. *Analytica Chimica Acta*, **2005**, 549, 20-25	6.6	179
74	Magnetic behaviour of arrays of Ni nanowires by electrodeposition into self-aligned titania nanotubes. *Journal of Magnetism and Magnetic Materials*, **2005**, 294, e69-e72	2.8	17
73	Radiofrequency glow-discharge devices for direct solid analysis. *Analytical and Bioanalytical Chemistry*, **2004**, 379, 17-29	4.4	32
72	A radiofrequency glow-discharge-time-of-flight mass spectrometer for direct analysis of glasses. *Analytical and Bioanalytical Chemistry*, **2004**, 379, 658-67	4.4	22
71	Surface-modified CdSe quantum dots as luminescent probes for cyanide determination. *Analytica Chimica Acta*, **2004**, 522, 1-8	6.6	155
70	Radio frequency glow discharge-optical emission spectrometry for direct quantitative analysis of glass. *Analytical Chemistry*, **2004**, 76, 1039-44	7.8	26
69	A sorbent tube for oral malodour monitoring. *Talanta*, **2004**, 62, 421-6	6.2	2
68	Flow-through solid-phase energy transfer-room temperature phosphorescence for orthophosphate determinations at trace levels. *Talanta*, **2004**, 62, 827-33	6.2	12
67	Flow injection determination of nitrite by fluorescence quenching. *Talanta*, **2004**, 62, 991-5	6.2	22
66	Fluorescence optosensors based on different transducers for the determination of polycyclic aromatic hydrocarbons in water. *Analytical and Bioanalytical Chemistry*, **2003**, 377, 614-23	4.4	15
65	Energy transfer□oom temperature phosphorescence for the optosensing of transition metal ions. *Analytica Chimica Acta*, **2003**, 486, 1-10	6.6	10
64	Room temperature phosphorimetric determination of cyanide based on triplet state energy transfer. *Analytica Chimica Acta*, **2003**, 491, 27-35	6.6	14
63	Investigations of the effect of hydrogen, nitrogen or oxygen on the in-depth profile analysis by radiofrequency argon glow discharge-optical emission spectrometry. *Journal of Analytical Atomic Spectrometry*, **2003**, 18, 151-156	3.7	41
62	Analytical potential of a glow discharge chamber coupled to a time of flight mass spectrometer for qualitative in-depth profile analysis. *Journal of Analytical Atomic Spectrometry*, **2003**, 18, 612-617	3.7	15
61	The influence of added hydrogen to an argon direct current glow discharge for time of flight mass spectrometry detection. *Journal of Analytical Atomic Spectrometry*, **2003**, 18, 557-563	3.7	20
60	Quantitative depth profile analysis by direct current glow discharge time of flight mass spectrometry. *Journal of Analytical Atomic Spectrometry*, **2003**, 18, 864-871	3.7	19
59	Integrated luminometer for the determination of trace metals in seawater using fluorescence, phosphorescence and chemiluminescence detection. *Journal of Automated Methods and Management in Chemistry*, **2002**, 24, 41-7		10

58	Spectrafluorimetric method for the rapid screening of toxic heavy metals in water samples. *Analytica Chimica Acta*, **2002**, 451, 203-210	6.6	25
57	Determination of trace levels of mercury in water samples based on room temperature phosphorescence energy transfer. *Analytica Chimica Acta*, **2002**, 455, 179-186	6.6	25
56	Optical fibre sensor for hydrogen sulphide monitoring in mouth air. *Analytica Chimica Acta*, **2002**, 471, 13-23	6.6	14
55	Integrated luminometer for the determination of trace metals in seawater using fluorescence, phosphorescence and chemiluminescence detection. *Journal of Automated Methods and Management in Chemistry*, **2002**, 24, 41-47		2
54	The influence of hydrogen, nitrogen or oxygen additions to radiofrequency argon glow discharges for optical emission spectrometry. *Journal of Analytical Atomic Spectrometry*, **2002**, 17, 1549-1555	3.7	37
53	Characterization of a simple glow discharge coupled to a time of flight mass spectrometer for in-depth profile analysis. *Journal of Analytical Atomic Spectrometry*, **2002**, 17, 1126-1131	3.7	17
52	Further development of a simple glow discharge source for direct solid analysis by on-axis time of flight mass spectrometry. *Journal of Analytical Atomic Spectrometry*, **2002**, 17, 786-789	3.7	21
51	Mercury speciation by HPLC--cold-vapour radiofrequency glow-discharge optical-emission spectrometry with on-line microwave oxidation. *Fresenius Journal of Analytical Chemistry*, **2001**, 371, 746-52		11
50	Arsenic and antimony determination by on-line flow hydride generation glow discharge optical emission detection. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2001**, 56, 113-122	3.1	14
49	Solid phase microextraction gas chromatography-glowdischarge-optical emission detection for tin and lead speciation. *Journal of Analytical Atomic Spectrometry*, **2001**, 16, 376-381	3.7	14
48	In-depth profile analysis by radiofrequencyglow discharge optical emission spectrometry using pressure as variable parameter. *Journal of Analytical Atomic Spectrometry*, **2001**, 16, 370-375	3.7	13
47	A simple glow discharge ion source for direct solid analysis by on-axis time-of-flight mass spectrometry. *Journal of Analytical Atomic Spectrometry*, **2001**, 16, 1253-1258	3.7	22
46	Determination of lead and mercury in sea water by preconcentration in a flow injection system followed by atomic absorption spectrometry detection. *Talanta*, **2001**, 55, 1071-8	6.2	47
45	Exploratory investigations on the potential of radiofrequency glow discharge-optical emission spectrometry for the direct elemental analysis of bone. *Journal of Analytical Atomic Spectrometry*, **2001**, 16, 250-255	3.7	4
44	Gas chromatography double focusing sector-field ICP-MS as an innovative tool for bad breath research. *Journal of Analytical Atomic Spectrometry*, **2001**, 16, 1051-1056	3.7	19
43	Fluorimetric method for the determination of trace levels of mercury in sea water using 6-mercaptopurine. *Analytica Chimica Acta*, **2000**, 419, 33-40	6.6	27
42	The influence of operational modes on sputtering rates and emission processes for different sample matrices in rf-GD-OES. *Journal of Analytical Atomic Spectrometry*, **2000**, 15, 67-71	3.7	10
41	Glow discharge atomic spectrometry for the analysis of environmental samples a review. *Journal of Analytical Atomic Spectrometry*, **2000**, 15, 1516-1525	3.7	21

40	Mercury speciation by capillary gas chromatography with radiofrequency hollow cathode glow discharge atomic emission detection. *Journal of Analytical Atomic Spectrometry*, **2000**, 15, 49-53	3.7	21
39	In-depth quantitative analysis of conducting coatings by radiofrequency glow discharge optical emission spectrometry: influence of the source operation methodology. *Journal of Analytical Atomic Spectrometry*, **2000**, 15, 1247-1253	3.7	7
38	Flow-through room temperature phosphorescence optosensing for the determination of lead in sea water. *Analytica Chimica Acta*, **1999**, 395, 1-9	6.6	21
37	Simple detector for oral malodour based on spectrofluorimetric measurements of hydrogen sulphide in mouth air. *Analytica Chimica Acta*, **1999**, 398, 23-31	6.6	44
36	Comparative study of the excitation/ionization capacity of direct current versus radiofrequency powered glow discharge optical spectrometry. *Journal of Analytical Atomic Spectrometry*, **1999**, 14, 1413-1418	3.7	6
35	Low-level mercury determination with thiamine by fluorescence optosensing. *Talanta*, **1999**, 49, 907-13	6.2	33
34	Applications of flow analysis with atomic spectrometric detectors in clinical and biological analysis. *Analytical Spectroscopy Library*, **1999**, 9, 342-374		
33	Basic instrumentation for FIA□tomic spectrometric detection. *Analytical Spectroscopy Library*, **1999**, 34-63		1
32	Total organochloride and organobromide determinations in aqueous samples by microwave induced plasma-optical emission spectrometry. *Mikrochimica Acta*, **1998**, 129, 217-223	5.8	6
31	Effect of operation parameters on the sputtering and emission processes in radiofrequency glow discharge. A comparison with the direct-current mode. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **1998**, 53, 1541-1551	3.1	18
30	Glow discharge atomic emission spectrometry as a detector in gas chromatography for mercury speciation. *Journal of Analytical Atomic Spectrometry*, **1998**, 13, 905-909	3.7	30
29	Glow discharge atomic emission spectrometry for the determination of chlorides and total organochlorine in water samplesviaon-line continuous generation of chlorine. *Journal of Analytical Atomic Spectrometry*, **1998**, 13, 911-915	3.7	12
28	Investigations on the Use of Radiofrequency Glow Discharge Optical Emission Spectrometry for In-depth Profile Analysis of Painted Coatings. *Journal of Analytical Atomic Spectrometry*, **1997**, 12, 1209-1214	3.7	15
27	Potential of Radio Frequency Glow Discharge Optical Emission Spectrometry for the Analysis of Gaseous Samples. *Analytical Chemistry*, **1997**, 69, 3702-3707	7.8	19
26	Determination of halides by microwave induced plasma and stabilized capacitive plasma atomic emission spectrometry after on-line continuous halogen generation. *Talanta*, **1997**, 44, 535-44	6.2	25
25	The effect of two gases forming supercritical fluids (Xe and CO2) on the spectral characteristics and analytical capabilities of microwave induced plasmas. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **1996**, 51, 685-695	3.1	4
24	Analytical and mechanistic aspects of the room temperature phosphorescence of Erythrosine B adsorbed on solid supports as oxygen sensing phases. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **1995**, 51, 895-904	4.4	10
23	Gas-Sampling Glow Discharge for Optical Emission Spectrometry. Part II: Optimization and Evaluation for the Determination of Nonmetals in Gas-Phase Samples. *Applied Spectroscopy*, **1995**, 49, 616-622	3.1	21

22	Direct coupling of high-performance liquid chromatography to microwave-induced plasma atomic emission spectrometry via volatile-species generation and its application to mercury and arsenic speciation. *Journal of Analytical Atomic Spectrometry*, **1995**, 10, 1019-1025	3.7	64
21	Continuous hydride generation low-pressure microwave-induced plasma atomic emission spectrometry for the determination of arsenic, antimony and selenium. *Journal of Analytical Atomic Spectrometry*, **1995**, 10, 311-315	3.7	21
20	Optical oxygen sensing materials based on the room-temperature phosphorescence intensity quenching of immobilized Erythrosin B. *Analyst, The*, **1995**, 120, 457-461	5	20
19	Preliminary study of the role of discharge conditions on the in-depth analysis of conducting thin films by radiofrequency glow discharge optical emission spectrometry. *Journal of Analytical Atomic Spectrometry*, **1995**, 10, 671-676	3.7	9
18	Effect of plasma pressure on the determination of mercury by microwave-induced plasma atomic emission spectrometry. *Journal of Analytical Atomic Spectrometry*, **1995**, 10, 649-653	3.7	12
17	A comparative study of three microwave induced plasma sources for atomic emission spectrometry I. Excitation of mercury and its determination after on-line continuous cold vapour generation. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **1994**, 49, 475-484	3.1	22
16	A comparative study of three microwave-induced plasma sources for atomic emission spectrometry-II. Evaluation of their atomization/excitation capabilities for chlorinated hydrocarbons. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **1994**, 49, 545-554	3.1	24
15	Direct coupling of continuous hydride generation with microwave plasma torch atomic emission spectrometry for the determination of arsenic, antimony and tin. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **1994**, 49, 59-73	3.1	33
14	On-line preconcentration of inorganic mercury and methylmercury in sea-water by sorbent-extraction and total mercury determination by cold vapour atomic absorption spectrometry. *Talanta*, **1994**, 41, 1833-9	6.2	46
13	Evaluation of Some Immobilized Room-Temperature Phosphorescent Metal Chelates as Sensing Materials for Oxygen. *Analytical Chemistry*, **1994**, 66, 836-840	7.8	35
12	A comparative study of two different approaches for active optical sensing of potassium with a chromoionophore. *Sensors and Actuators B: Chemical*, **1993**, 11, 413-419	8.5	12
11	A gas-sampling glow discharge coupled to hydride generation for the atomic spectrometric determination of arsenic. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **1993**, 48, 1207-1220	3.1	18
10	Gas-Sampling Glow Discharge for Optical Emission Spectrometry. Part I: Design and Operating Characteristics. *Applied Spectroscopy*, **1993**, 47, 1555-1561	3.1	18
9	Serum analysis for potassium ions using a fibre optic sensor. *Clinica Chimica Acta*, **1992**, 207, 31-40	6.2	17
8	Room-temperature luminescence optosensing based on immobilized metal chelates: application to iodide determination. *Analytica Chimica Acta*, **1991**, 255, 245-251	6.6	10
7	Solid-surface room-temperature phosphorescence optosensing in continuous flow systems: an approach for ultratrace metal ion determination. *Analytical Chemistry*, **1991**, 63, 1759-1763	7.8	30
6	On-line aluminium pre-concentration and its application to the determination of the metal in dialysis concentrates by atomic spectrometric methods. *Journal of Analytical Atomic Spectrometry*, **1990**, 5, 15-19	3.7	26
5	Spectrofluorimetric optosensing of aluminium in a flow injection system: determination of aluminium in dialysis fluids and concentrates. *Analyst, The*, **1990**, 115, 575-579	5	20

4	Flow injection ion-exchange pre-concentration for the determination of aluminium by atomic absorption spectrometry and inductively coupled plasma atomic emission spectrometry. *Journal of Analytical Atomic Spectrometry*, **1987**, 2, 699-703	3.7	22
3	Glow Discharge Atomic Emission Spectrometry for the Analysis of Gases and as an Alternative Gas Chromatographic Detector381-400		
2	Microsampling of biological fluids for elemental and isotopic analysis by ICP-MS: strategies and applications for disease diagnosis. *Journal of Analytical Atomic Spectrometry*,	3.7	1
1	Organically Modified Quantum Dots in Chemical and Biochemical Analysis377-403		1