

Rosario Pereiro

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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	The use of luminescent quantum dots for optical sensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2006 , 25, 207-218	14.6	427
218	Photoactivated luminescent CdSe quantum dots as sensitive cyanide probes in aqueous solutions. <i>Chemical Communications</i> , 2005 , 883-5	5.8	279
217	Surface-modified CdSe quantum dots for the sensitive and selective determination of Cu(II) in aqueous solutions by luminescent measurements. <i>Analytica Chimica Acta</i> , 2005 , 549, 20-25	6.6	179
216	Surface-modified CdSe quantum dots as luminescent probes for cyanide determination. <i>Analytica Chimica Acta</i> , 2004 , 522, 1-8	6.6	155
215	Bioanalytics and biolabeling with semiconductor nanoparticles (quantum dots). <i>Journal of Materials Chemistry</i> , 2007 , 17, 1343-1346		99
214	Glow-discharge spectrometry for direct analysis of thin and ultra-thin solid films. <i>TrAC - Trends in Analytical Chemistry</i> , 2006 , 25, 11-18	14.6	99
213	Laser ablation ICP-MS for quantitative biomedical applications. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 2113-25	4.4	98
212	Nanoparticles as fluorescent labels for optical imaging and sensing in genomics and proteomics. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 29-42	4.4	95
211	Fluorescent conjugated polymers for chemical and biochemical sensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2011 , 30, 1513-1525	14.6	86
210	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. <i>Journal of Analytical Atomic Spectrometry</i> , 1995 , 10, 1019-1025	3.7	64
209	Room temperature phosphorescence optosensing of benzo[a]pyrene in water using halogenated molecularly imprinted polymers. <i>Analyst, The</i> , 2007 , 132, 218-23	5	62
208	Development of a quantum dot-based fluorescent immunoassay for progesterone determination in bovine milk. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4753-9	11.8	55
207	Inorganic mass spectrometry as a tool for characterisation at the nanoscale. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 15-29	4.4	52
206	Pulsed radiofrequency glow discharge time of flight mass spectrometer for the direct analysis of bulk and thin coated glasses. <i>Journal of Analytical Atomic Spectrometry</i> , 2008 , 23, 1239	3.7	51
205	Gold internal standard correction for elemental imaging of soft tissue sections by LA-ICP-MS: element distribution in eye microstructures. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 3091-6	4.4	49
204	A comparison of non-pulsed radiofrequency and pulsed radiofrequency glow discharge orthogonal time-of-flight mass spectrometry for analytical purposes. <i>Journal of Analytical Atomic Spectrometry</i> , 2009 , 24, 1373	3.7	48
203	Direct screening of tetracyclines in water and bovine milk using room temperature phosphorescence detection. <i>Analytica Chimica Acta</i> , 2007 , 589, 51-8	6.6	47

202	Determination of lead and mercury in sea water by preconcentration in a flow injection system followed by atomic absorption spectrometry detection. <i>Talanta</i> , 2001 , 55, 1071-8	6.2	47
201	Molecularly imprinted polymers based on iodinated monomers for selective room-temperature phosphorescence optosensing of fluoranthene in water. <i>Analytical Chemistry</i> , 2005 , 77, 7005-11	7.8	46
200	On-line preconcentration of inorganic mercury and methylmercury in sea-water by sorbent-extraction and total mercury determination by cold vapour atomic absorption spectrometry. <i>Talanta</i> , 1994 , 41, 1833-9	6.2	46
199	Conjugated polymer microspheres for "turn-off"/"turn-on" fluorescence optosensing of inorganic ions in aqueous media. <i>Analytical Chemistry</i> , 2011 , 83, 2712-8	7.8	44
198	Simple detector for oral malodour based on spectrofluorimetric measurements of hydrogen sulphide in mouth air. <i>Analytica Chimica Acta</i> , 1999 , 398, 23-31	6.6	44
197	Elemental and molecular detection for Quantum Dots-based immunoassays: a critical appraisal. <i>Biosensors and Bioelectronics</i> , 2012 , 33, 165-71	11.8	42
196	Simple bio-conjugation of polymer-coated quantum dots with antibodies for fluorescence-based immunoassays. <i>Analyst, The</i> , 2008 , 133, 444-7	5	42
195	Investigations of the effect of hydrogen, nitrogen or oxygen on the in-depth profile analysis by radiofrequency argon glow discharge-optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2003 , 18, 151-156	3.7	41
194	Functionalized gold nanoclusters as fluorescent labels for immunoassays: Application to human serum immunoglobulin E determination. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 1055-61	11.8	40
193	Laser ablation ICP-MS for simultaneous quantitative imaging of iron and ferroportin in hippocampus of human brain tissues with Alzheimer's disease. <i>Talanta</i> , 2019 , 197, 413-421	6.2	39
192	Quantitative bioimaging of trace elements in the human lens by LA-ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 2343-8	4.4	39
191	A quantum dot-based immunoassay for screening of tetracyclines in bovine muscle. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 1733-40	5.7	37
190	Present and future of glow discharge Time of flight mass spectrometry in analytical chemistry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011 , 66, 399-412	3.1	37
189	The influence of hydrogen, nitrogen or oxygen additions to radiofrequency argon glow discharges for optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 1549-1555	3.7	37
188	Electrolyte influence on the anodic synthesis of TiO ₂ nanotube arrays. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 5233-5235	3.9	36
187	Evaluation of Some Immobilized Room-Temperature Phosphorescent Metal Chelates as Sensing Materials for Oxygen. <i>Analytical Chemistry</i> , 1994 , 66, 836-840	7.8	35
186	One-step aqueous synthesis of fluorescent copper nanoclusters by direct metal reduction. <i>Nanotechnology</i> , 2013 , 24, 495601	3.4	33
185	Absolute quantification of human serum transferrin by species-specific isotope dilution laser ablation ICP-MS. <i>Analytical Chemistry</i> , 2011 , 83, 5353-60	7.8	33

184	Low-level mercury determination with thiamine by fluorescence optosensing. <i>Talanta</i> , 1999 , 49, 907-13	6.2	33
183	Direct coupling of continuous hydride generation with microwave plasma torch atomic emission spectrometry for the determination of arsenic, antimony and tin. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1994 , 49, 59-73	3.1	33
182	Exhaled breath and oral cavity VOCs as potential biomarkers in oral cancer patients. <i>Journal of Breath Research</i> , 2017 , 11, 016015	3.1	32
181	Radiofrequency glow-discharge devices for direct solid analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 379, 17-29	4.4	32
180	New integrated elemental and molecular strategies as a diagnostic tool for the quality of water soluble quantum dots and their bioconjugates. <i>Nanoscale</i> , 2011 , 3, 954-7	7.7	31
179	Glow discharge atomic emission spectrometry as a detector in gas chromatography for mercury speciation. <i>Journal of Analytical Atomic Spectrometry</i> , 1998 , 13, 905-909	3.7	30
178	Solid-surface room-temperature phosphorescence optosensing in continuous flow systems: an approach for ultratrace metal ion determination. <i>Analytical Chemistry</i> , 1991 , 63, 1759-1763	7.8	30
177	Design and evaluation of a new Peltier-cooled laser ablation cell with on-sample temperature control. <i>Analytica Chimica Acta</i> , 2014 , 809, 88-96	6.6	29
176	Iodinated molecularly imprinted polymer for room temperature phosphorescence optosensing of fluoranthene. <i>Chemical Communications</i> , 2005 , 3224-6	5.8	29
175	Iron and Zinc in the Embryo and Endosperm of Rice (L.) Seeds in Contrasting 2 δ Deoxymugineic Acid/Nicotianamine Scenarios. <i>Frontiers in Plant Science</i> , 2018 , 9, 1190	6.2	29
174	Depth profile analysis with glow discharge spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2017 , 32, 920-930	3.7	28
173	Modifying argon glow discharges by hydrogen addition: effects on analytical characteristics of optical emission and mass spectrometry detection modes. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 388, 1573-82	4.4	28
172	Fluorimetric method for the determination of trace levels of mercury in sea water using 6-mercaptopurine. <i>Analytica Chimica Acta</i> , 2000 , 419, 33-40	6.6	27
171	Critical evaluation of the potential of radiofrequency pulsed glow discharge-time-of-flight mass spectrometry for depth-profile analysis of innovative materials. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 5655-62	4.4	26
170	Glow discharge analysis of nanostructured materials and nanolayers--a review. <i>Analytica Chimica Acta</i> , 2010 , 679, 7-16	6.6	26
169	Radio frequency glow discharge-optical emission spectrometry for direct quantitative analysis of glass. <i>Analytical Chemistry</i> , 2004 , 76, 1039-44	7.8	26
168	On-line aluminium pre-concentration and its application to the determination of the metal in dialysis concentrates by atomic spectrometric methods. <i>Journal of Analytical Atomic Spectrometry</i> , 1990 , 5, 15-19	3.7	26
167	Determination of halides by microwave induced plasma and stabilized capacitive plasma atomic emission spectrometry after on-line continuous halogen generation. <i>Talanta</i> , 1997 , 44, 535-44	6.2	25

166	Spectrafluorimetric method for the rapid screening of toxic heavy metals in water samples. <i>Analytica Chimica Acta</i> , 2002 , 451, 203-210	6.6	25
165	Determination of trace levels of mercury in water samples based on room temperature phosphorescence energy transfer. <i>Analytica Chimica Acta</i> , 2002 , 455, 179-186	6.6	25
164	A comparative study of three microwave-induced plasma sources for atomic emission spectrometry-II. Evaluation of their atomization/excitation capabilities for chlorinated hydrocarbons. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1994 , 49, 545-554	3.1	24
163	Tuneable microsecond-pulsed glow discharge design for the simultaneous acquisition of elemental and molecular chemical information using a time-of-flight mass spectrometer. <i>Analytical Chemistry</i> , 2009 , 81, 2591-9	7.8	23
162	Microsecond pulsed versus direct current glow discharge as ion sources for analytical glow discharge-time of flight mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2007 , 22, 1179	3.7	23
161	Bioimaging of metallothioneins in ocular tissue sections by laser ablation-ICP-MS using bioconjugated gold nanoclusters as specific tags. <i>Mikrochimica Acta</i> , 2017 , 185, 64	5.8	22
160	Pulsed radiofrequency glow discharge time-of-flight mass spectrometry for nanostructured materials characterization. <i>Analytical Chemistry</i> , 2011 , 83, 329-37	7.8	22
159	A radiofrequency glow-discharge-time-of-flight mass spectrometer for direct analysis of glasses. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 379, 658-67	4.4	22
158	Flow injection determination of nitrite by fluorescence quenching. <i>Talanta</i> , 2004 , 62, 991-5	6.2	22
157	A simple glow discharge ion source for direct solid analysis by on-axis time-of-flight mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 1253-1258	3.7	22
156	A comparative study of three microwave induced plasma sources for atomic emission spectrometry II Excitation of mercury and its determination after on-line continuous cold vapour generation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1994 , 49, 475-484	3.1	22
155	Flow injection ion-exchange pre-concentration for the determination of aluminium by atomic absorption spectrometry and inductively coupled plasma atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1987 , 2, 699-703	3.7	22
154	The Zinc-Metallothionein Redox System Reduces Oxidative Stress in Retinal Pigment Epithelial Cells. <i>Nutrients</i> , 2018 , 10,	6.7	22
153	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. <i>Analytica Chimica Acta</i> , 2008 , 623, 140-5	6.6	21
152	Further development of a simple glow discharge source for direct solid analysis by on-axis time of flight mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 786-789	3.7	21
151	Glow discharge atomic spectrometry for the analysis of environmental samples II a review. <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 1516-1525	3.7	21
150	Mercury speciation by capillary gas chromatography with radiofrequency hollow cathode glow discharge atomic emission detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 49-53	3.7	21
149	Flow-through room temperature phosphorescence optosensing for the determination of lead in sea water. <i>Analytica Chimica Acta</i> , 1999 , 395, 1-9	6.6	21

148	Gas-Sampling Glow Discharge for Optical Emission Spectrometry. Part II: Optimization and Evaluation for the Determination of Nonmetals in Gas-Phase Samples. <i>Applied Spectroscopy</i> , 1995 , 49, 616-622	3.1	21
147	Continuous hydride generation low-pressure microwave-induced plasma atomic emission spectrometry for the determination of arsenic, antimony and selenium. <i>Journal of Analytical Atomic Spectrometry</i> , 1995 , 10, 311-315	3.7	21
146	Pulsed radiofrequency glow discharge optical emission spectrometry for the direct characterisation of photovoltaic thin film silicon solar cells. <i>Journal of Analytical Atomic Spectrometry</i> , 2010 , 25, 370	3.7	20
145	Polymer screening by radiofrequency glow discharge time-of-flight mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 2863-9	4.4	20
144	The influence of added hydrogen to an argon direct current glow discharge for time of flight mass spectrometry detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2003 , 18, 557-563	3.7	20
143	Optical oxygen sensing materials based on the room-temperature phosphorescence intensity quenching of immobilized Erythrosin B. <i>Analyst, The</i> , 1995 , 120, 457-461	5	20
142	Spectrofluorimetric optosensing of aluminium in a flow injection system: determination of aluminium in dialysis fluids and concentrates. <i>Analyst, The</i> , 1990 , 115, 575-579	5	20
141	Elemental and isotopic analysis of oral squamous cell carcinoma tissues using sector-field and multi-collector ICP-mass spectrometry. <i>Talanta</i> , 2017 , 165, 92-97	6.2	19
140	Potential of Radio Frequency Glow Discharge Optical Emission Spectrometry for the Analysis of Gaseous Samples. <i>Analytical Chemistry</i> , 1997 , 69, 3702-3707	7.8	19
139	Quantitative depth profile analysis by direct current glow discharge time of flight mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2003 , 18, 864-871	3.7	19
138	Gas chromatography double focusing sector-field ICP-MS as an innovative tool for bad breath research. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 1051-1056	3.7	19
137	On-line double isotope dilution laser ablation inductively coupled plasma mass spectrometry for the quantitative analysis of solid materials. <i>Analytica Chimica Acta</i> , 2014 , 851, 64-71	6.6	18
136	Quantitative depth profiling of boron and arsenic ultra low energy implants by pulsed rf-GD-ToFMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2011 , 26, 542-549	3.7	18
135	Effect of operation parameters on the sputtering and emission processes in radiofrequency glow discharge. A comparison with the direct-current mode. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1998 , 53, 1541-1551	3.1	18
134	The effect of thin conductive layers on glass on the performance of radiofrequency glow discharge optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2005 , 20, 462-466	3.7	18
133	A gas-sampling glow discharge coupled to hydride generation for the atomic spectrometric determination of arsenic. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1993 , 48, 1207-1220	3.1	18
132	Gas-Sampling Glow Discharge for Optical Emission Spectrometry. Part I: Design and Operating Characteristics. <i>Applied Spectroscopy</i> , 1993 , 47, 1555-1561	3.1	18
131	Quantitative mapping of specific proteins in biological tissues by laser ablation-ICP-MS using exogenous labels: aspects to be considered. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 549-558	4.4	18

130	Quantitative Imaging of Specific Proteins in the Human Retina by Laser Ablation ICPMS using Bioconjugated Metal Nanoclusters as Labels. <i>Analytical Chemistry</i> , 2018 , 90, 12145-12151	7.8	18
129	Opportunities and challenges of isotopic analysis by laser ablation ICP-MS in biological studies. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 105, 380-390	14.6	17
128	Time-resolved measurement of emission profiles in pulsed radiofrequency glow discharge optical emission spectroscopy: Investigation of the pre-peak. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010 , 65, 533-541	3.1	17
127	Magnetic behaviour of arrays of Ni nanowires by electrodeposition into self-aligned titania nanotubes. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 294, e69-e72	2.8	17
126	Characterization of a simple glow discharge coupled to a time of flight mass spectrometer for in-depth profile analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 1126-1131	3.7	17
125	Serum analysis for potassium ions using a fibre optic sensor. <i>Clinica Chimica Acta</i> , 1992 , 207, 31-40	6.2	17
124	Elemental analyses of soil and sediment fused with lithium borate using isotope dilution laser ablation-inductively coupled plasma-mass spectrometry. <i>Analytica Chimica Acta</i> , 2013 , 793, 72-8	6.6	16
123	Silicon induced Fe deficiency affects Fe, Mn, Cu and Zn distribution in rice (<i>Oryza sativa</i> L.) growth in calcareous conditions. <i>Plant Physiology and Biochemistry</i> , 2018 , 125, 153-163	5.4	15
122	Depth profile characterization of Zn-TiO ₂ nanocomposite films by pulsed radiofrequency glow discharge-optical emission spectrometry. <i>Talanta</i> , 2011 , 84, 572-8	6.2	15
121	Investigations on the Use of Radiofrequency Glow Discharge Optical Emission Spectrometry for In-depth Profile Analysis of Painted Coatings. <i>Journal of Analytical Atomic Spectrometry</i> , 1997 , 12, 1209-1214	3.7	15
120	Fluorescence optosensors based on different transducers for the determination of polycyclic aromatic hydrocarbons in water. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 377, 614-23	4.4	15
119	Analytical potential of a glow discharge chamber coupled to a time of flight mass spectrometer for qualitative in-depth profile analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2003 , 18, 612-617	3.7	15
118	H ₂ /Ar direct current glow discharge mass spectrometry at constant voltage and pressure. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005 , 60, 824-833	3.1	15
117	Antioxidant Defenses in the Human Eye: A Focus on Metallothioneins. <i>Antioxidants</i> , 2021 , 10,	7.1	15
116	Aqueous synthesis of near-infrared highly fluorescent platinum nanoclusters. <i>Nanotechnology</i> , 2015 , 26, 215601	3.4	14
115	Pulsed glow discharge time of flight mass spectrometry for the screening of polymer-based coatings containing brominated flame retardants. <i>Journal of Analytical Atomic Spectrometry</i> , 2012 , 27, 318-326	3.7	14
114	Plasma-based mass spectrometry for simultaneous acquisition of elemental and molecular information. <i>Analyst, The</i> , 2011 , 136, 246-56	5	14
113	Radiofrequency glow discharge-optical emission spectrometry for the analysis of metallurgical-grade silicon. <i>Journal of Analytical Atomic Spectrometry</i> , 2005 , 20, 233-235	3.7	14

112	Optical fibre sensor for hydrogen sulphide monitoring in mouth air. <i>Analytica Chimica Acta</i> , 2002 , 471, 13-23	6.6	14
111	Room temperature phosphorimetric determination of cyanide based on triplet state energy transfer. <i>Analytica Chimica Acta</i> , 2003 , 491, 27-35	6.6	14
110	Arsenic and antimony determination by on-line flow hydride generation-glow discharge-optical emission detection. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2001 , 56, 113-122	3.1	14
109	Solid phase microextraction gas chromatography-glow discharge-optical emission detection for tin and lead speciation. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 376-381	3.7	14
108	Nanoparticles as labels of specific-recognition reactions for the determination of biomolecules by inductively coupled plasma-mass spectrometry. <i>Analytica Chimica Acta</i> , 2020 , 1128, 251-268	6.6	14
107	Pulsed radiofrequency glow discharge time of flight mass spectrometry for coated glass analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2015 , 30, 1108-1116	3.7	13
106	Quantitative study of zinc and metallothioneins in the human retina and RPE cells by mass spectrometry-based methodologies. <i>Talanta</i> , 2018 , 178, 222-230	6.2	13
105	Reusable phosphorescent probes based on molecularly imprinted polymers for the determination of propranolol in urine. <i>Sensors and Actuators B: Chemical</i> , 2012 , 168, 370-375	8.5	13
104	Synthesis and characterization of hapten-quantum dots bioconjugates: Application to development of a melamine fluorescent immunoassay. <i>Talanta</i> , 2013 , 106, 243-8	6.2	13
103	Flow-through optosensing of 1-naphthaleneacetic acid in water and apples by heavy atom induced-room temperature phosphorescence measurements. <i>Talanta</i> , 2005 , 66, 696-702	6.2	13
102	In-depth profile analysis by radiofrequency glow discharge optical emission spectrometry using pressure as variable parameter. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 370-375	3.7	13
101	A Possible Growth Mechanism for ZnO-TiO ₂ Composite Nanostructured Films Prepared by Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2014 , 161, D125-D133	3.9	12
100	Electrodeposition of Metal Matrix Nanocomposites: Improvement of the Chemical Characterization Techniques 2011 ,		12
99	Glow discharge atomic emission spectrometry for the determination of chlorides and total organochlorine in water samples via on-line continuous generation of chlorine. <i>Journal of Analytical Atomic Spectrometry</i> , 1998 , 13, 911-915	3.7	12
98	Flow-through solid-phase energy transfer-room temperature phosphorescence for orthophosphate determinations at trace levels. <i>Talanta</i> , 2004 , 62, 827-33	6.2	12
97	Effect of plasma pressure on the determination of mercury by microwave-induced plasma atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1995 , 10, 649-653	3.7	12
96	A comparative study of two different approaches for active optical sensing of potassium with a chromoionophore. <i>Sensors and Actuators B: Chemical</i> , 1993 , 11, 413-419	8.5	12
95	Characterization of thin film tandem solar cells by radiofrequency pulsed glow discharge - Time of flight mass spectrometry. <i>Talanta</i> , 2017 , 165, 289-296	6.2	11

94	RF-pulsed glow discharge time-of-flight mass spectrometry for glass analysis: investigation of the ion source design. <i>Analytica Chimica Acta</i> , 2012 , 756, 30-6	6.6	11
93	Halogenated molecularly imprinted polymers for selective determination of carbaryl by phosphorescence measurements. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 394, 1569-76	4.4	11
92	Quantitative depth profile analysis of metallic coatings by pulsed radiofrequency glow discharge optical emission spectrometry. <i>Analytica Chimica Acta</i> , 2011 , 684, 38-44	6.6	11
91	Quantification of bromine in flame-retardant coatings by radiofrequency glow discharge-optical emission spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 389, 683-90	4.4	11
90	Mercury speciation by HPLC--cold-vapour radiofrequency glow-discharge optical-emission spectrometry with on-line microwave oxidation. <i>Fresenius Journal of Analytical Chemistry</i> , 2001 , 371, 746-52		11
89	Multiplex bioimaging of proteins-related to neurodegenerative diseases in eye sections by laser ablation - Inductively coupled plasma - Mass spectrometry using metal nanoclusters as labels. <i>Talanta</i> , 2021 , 221, 121489	6.2	11
88	Quantitative distribution of Zn, Fe and Cu in the human lens and study of the Znβmetallothionein redox system in cultured lens epithelial cells by elemental MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2017 , 32, 1746-1756	3.7	10
87	Fluorescent silver nanoclusters as antibody label in a competitive immunoassay for the complement factor H. <i>Mikrochimica Acta</i> , 2019 , 186, 429	5.8	10
86	Mass Spectrometry for the Characterization of Gold Nanoparticles. <i>Comprehensive Analytical Chemistry</i> , 2014 , 66, 329-356	1.9	10
85	Evaluation of different strategies for quantitative depth profile analysis of Cu/NiCu layers and multilayers via pulsed glow discharge Time of flight mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017 , 135, 34-41	3.1	10
84	A path towards a better characterisation of silicon thin-film solar cells: depth profile analysis by pulsed radiofrequency glow discharge optical emission spectrometry. <i>Progress in Photovoltaics: Research and Applications</i> , 2014 , 22, 1246-1255	6.8	10
83	An ion source for radiofrequency-pulsed glow discharge time-of-flight mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012 , 76, 159-165	3.1	10
82	Analytical performance of pulsed radiofrequency glow discharge optical emission spectrometry for bulk and in-depth profile analysis of conductors and insulators. <i>Journal of Analytical Atomic Spectrometry</i> , 2011 , 26, 776-783	3.7	10
81	In-depth profile analysis of filled alumina and titania nanostructured templates by radiofrequency glow discharge coupled to optical emission spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 2833-40	4.4	10
80	In-depth profile analysis of thin films deposited on non-conducting glasses by radiofrequency glow-discharge-optical emission spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 384, 876-86	4.4	10
79	Integrated luminometer for the determination of trace metals in seawater using fluorescence, phosphorescence and chemiluminescence detection. <i>Journal of Automated Methods and Management in Chemistry</i> , 2002 , 24, 41-7		10
78	Energy transfer from temperature phosphorescence for the optosensing of transition metal ions. <i>Analytica Chimica Acta</i> , 2003 , 486, 1-10	6.6	10
77	The influence of operational modes on sputtering rates and emission processes for different sample matrices in rf-GD-OES. <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 67-71	3.7	10

76	Analytical and mechanistic aspects of the room temperature phosphorescence of Erythrosine B adsorbed on solid supports as oxygen sensing phases. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1995 , 51, 895-904	4.4	10
75	Room-temperature luminescence optosensing based on immobilized metal chelates: application to iodide determination. <i>Analytica Chimica Acta</i> , 1991 , 255, 245-251	6.6	10
74	Bimodal determination of immunoglobulin E by fluorometry and ICP-MS by using platinum nanoclusters as a label in an immunoassay. <i>Mikrochimica Acta</i> , 2019 , 186, 705	5.8	9
73	Nanostructural transformations of silver nanoclusters occurring during their synthesis and after interaction with UV-light. <i>Materials Research Express</i> , 2014 , 1, 015039	1.7	9
72	Analytical potential of a laser ablation-glow discharge-optical emission spectrometry system for the analysis of conducting and insulating materials. <i>Analytica Chimica Acta</i> , 2015 , 877, 33-40	6.6	9
71	A purged argon pre-chamber for analytical glow discharge-time of flight mass spectrometry applications. <i>Journal of Analytical Atomic Spectrometry</i> , 2011 , 26, 798-803	3.7	9
70	Investigation of the afterglow time regime in pulsed radiofrequency glow discharge time-of-flight mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2011 , 46, 757-63	2.2	9
69	Gas chromatography coupled to tunable pulsed glow discharge time-of-flight mass spectrometry for environmental analysis. <i>Analyst, The</i> , 2010 , 135, 987-93	5	9
68	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. <i>Journal of Analytical Atomic Spectrometry</i> , 2010 , 25, 1247	3.7	9
67	Effect of H ₂ /Ar mixtures on the analysis of conducting and insulating materials by radiofrequency glow discharge mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2006 , 21, 531-534	3.7	9
66	Preliminary study of the role of discharge conditions on the in-depth analysis of conducting thin films by radiofrequency glow discharge optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1995 , 10, 671-676	3.7	9
65	Depth profile analysis of rare earth elements in corroded steels by pulsed glow discharge time of flight mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2017 , 32, 1306-1311	3.7	8
64	Depth profile analysis of amorphous silicon thin film solar cells by pulsed radiofrequency glow discharge time of flight mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2015 , 26, 305-14	3.5	8
63	Room temperature phosphorimetric determination of bromate in flour based on energy transfer. <i>Talanta</i> , 2013 , 116, 231-6	6.2	8
62	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. <i>Journal of Analytical Atomic Spectrometry</i> , 2012 , 27, 71-79	3.7	8
61	Evaluation of a glow discharge chamber coupled to time of flight mass spectrometry for the analysis of small gas volumes and bubbles in glass. <i>Journal of Analytical Atomic Spectrometry</i> , 2010 , 25, 1612	3.7	8
60	Analysis of small bubbles in glass by glow discharge-time-of-flight mass spectrometry. <i>Analytica Chimica Acta</i> , 2009 , 652, 272-7	6.6	8
59	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. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 177, 112857	3.5	8

58	Synthesis of amino-functionalized silica nanoparticles for preparation of new laboratory standards. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017 , 138, 1-7	3.1	7
57	Endogenous and exogenous hydrogen influence on amorphous silicon thin films analysis by pulsed radiofrequency glow discharge optical emission spectrometry. <i>Analytica Chimica Acta</i> , 2012 , 714, 1-7	6.6	7
56	Challenging identifications of polymer coatings by radiofrequency pulsed glow discharge-time of flight mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2013 , 28, 1054	3.7	7
55	Elemental ratio determinations and compound-independent calibration using microsecond pulsed glow discharge time-of-flight mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 2771-2774	4.4	7
54	An approach to calculate sputtering rates in glow discharges by using a new crater volume evaluation method. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007 , 62, 1263-1268	3.1	7
53	Nitrogen effects in multi-matrix calibrations by radiofrequency glow discharge--optical emission spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 389, 743-52	4.4	7
52	Hydrogen effects on copper, zinc and nickel atomic emission lines in argon radiofrequency glow discharge optical emission spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008 , 63, 692-699	3.1	7
51	Monte Carlo analysis of the electron thermalization process in the afterglow of a microsecond dc pulsed glow discharge. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008 , 63, 1274-1282	3.1	7
50	In-depth quantitative analysis of conducting coatings by radiofrequency glow discharge optical emission spectrometry: influence of the source operation methodology. <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 1247-1253	3.7	7
49	Imaging of proteins in biological tissues by fluorescence microscopy and laser ablation-ICP-MS using natural and isotopically enriched silver nanoclusters. <i>Journal of Analytical Atomic Spectrometry</i> , 2020 , 35, 1868-1879	3.7	7
48	Evaluation of the temporal profiles and the analytical features of a laser ablation [Pulsed glow discharge coupling for optical emission spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016 , 121, 47-54	3.1	7
47	Isotopically Enriched Tracers and Inductively Coupled Plasma Mass Spectrometry Methodologies to Study Zinc Supplementation in Single-Cells of Retinal Pigment Epithelium in Vitro. <i>Analytical Chemistry</i> , 2019 , 91, 4488-4495	7.8	6
46	Capabilities of radiofrequency pulsed glow discharge-time of flight mass spectrometry for molecular screening in polymeric materials: positive versus negative ion mode. <i>Journal of Analytical Atomic Spectrometry</i> , 2016 , 31, 212-219	3.7	6
45	Use of radiofrequency power to enable glow discharge optical emission spectroscopy ultrafast elemental mapping of combinatorial libraries with nonconductive components: nitrogen-based materials. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 7533-8	4.4	6
44	Total organochloride and organobromide determinations in aqueous samples by microwave induced plasma-optical emission spectrometry. <i>Mikrochimica Acta</i> , 1998 , 129, 217-223	5.8	6
43	Rf glow discharge optical emission spectrometry for the analysis of arrays of Ni nanowires in nanoporous alumina and titania membranes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 1241-1247	1.6	6
42	Comparative study of the excitation/ionization capacity of direct current versus radiofrequency powered glow discharge optical spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1999 , 14, 1413-1418	3.7	6
41	Technical note: Characterization of gold coated ceramics by radiofrequency pulsed glow discharge [time of flight mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2018 , 33, 502-507	3.7	5

40	Isotope dilution mass spectrometry for quantitative elemental analysis of powdered samples by radiofrequency pulsed glow discharge time of flight mass spectrometry. <i>Talanta</i> , 2013 , 115, 657-64	6.2	5
39	Application of radiofrequency glow discharge-optical emission spectrometry for direct analysis of main components of glass samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2006 , 21, 1412-1418	3.7	5
38	A flowing atmospheric pressure afterglow as an ion source coupled to a differential mobility analyzer for volatile organic compound detection. <i>Analyst, The</i> , 2016 , 141, 3437-43	5	4
37	Atomic Absorption Spectrometry Fundamentals, Instrumentation and Capabilities 2018 , 137-137		4
36	P, S and Cl trace detection by laser ablation double-focusing sector field ICP-MS to identify local defects in coated glasses. <i>Journal of Analytical Atomic Spectrometry</i> , 2011 , 26, 1526	3.7	4
35	Studies on the Stability of Zn and ZnTiO ₂ Nanocomposite Coatings Prepared by Pulse Reverse Current. <i>Journal of the Electrochemical Society</i> , 2011 , 158, C63	3.9	4
34	Exploratory investigations on the potential of radiofrequency glow discharge-optical emission spectrometry for the direct elemental analysis of bone. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 250-255	3.7	4
33	The effect of two gases forming supercritical fluids (Xe and CO ₂) on the spectral characteristics and analytical capabilities of microwave induced plasmas. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1996 , 51, 685-695	3.1	4
32	Volatile organic compound analysis by pulsed glow discharge time of flight mass spectrometry as a structural elucidation tool. <i>Journal of Mass Spectrometry</i> , 2017 , 52, 561-570	2.2	3
31	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. <i>International Journal of Molecular Sciences</i> , 2011 , 12, 2200-15	6.3	3
30	Pulsed radiofrequency glow discharge time-of-flight mass spectrometry: Depth profile analysis of multilayers on conductive and non-conductive substrates. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020 , 168, 105865	3.1	2
29	Atomic Spectrometry 2013 ,		2
28	Rf glow discharge optical emission spectrometry for cleaning process control of oil residues in low alloy steel. <i>Journal of Analytical Atomic Spectrometry</i> , 2007 , 22, 411-414	3.7	2
27	A sorbent tube for oral malodour monitoring. <i>Talanta</i> , 2004 , 62, 421-6	6.2	2
26	Integrated luminometer for the determination of trace metals in seawater using fluorescence, phosphorescence and chemiluminescence detection. <i>Journal of Automated Methods and Management in Chemistry</i> , 2002 , 24, 41-47		2
25	Rapid evaluation of different perovskite absorber layers through the application of depth profile analysis using glow discharge - Time of flight mass spectrometry. <i>Talanta</i> , 2019 , 192, 317-324	6.2	2
24	Iridium nanoclusters as high sensitive-tunable elemental labels for immunoassays: Determination of IgE and APOE in aqueous humor by inductively coupled plasma-mass spectrometry.. <i>Talanta</i> , 2022 , 244, 123424	6.2	2
23	Plasma profiling-time of flight mass spectrometry: considerations to exploit its analytical performance for materials characterization. <i>Journal of Analytical Atomic Spectrometry</i> , 2019 , 34, 702-707	3.7	1

22	Characterization of a new mobility separation tool: HRIMS as differential mobility analyzer. <i>Talanta</i> , 2014 , 130, 400-7	6.2	1
21	Analysis of thin and thick Films 2012 , 943-959		1
20	Plasma immersion ion implantation for reducing metal ion release 2012 ,		1
19	2008 ,		1
18	Basic instrumentation for FIATomic spectrometric detection. <i>Analytical Spectroscopy Library</i> , 1999 , 34-63		1
17	Microsampling of biological fluids for elemental and isotopic analysis by ICP-MS: strategies and applications for disease diagnosis. <i>Journal of Analytical Atomic Spectrometry</i> ,	3.7	1
16	Nanomodificated Surface CoCr Alloy for Corrosion Protection of MoM Prosthesis. <i>Journal of Biomaterials and Nanobiotechnology</i> , 2015 , 06, 91-99	1	1
15	Homeostatic alterations related to total antioxidant capacity, elemental concentrations and isotopic compositions in aqueous humor of glaucoma patients. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 1	4.4	1
14	Organically Modified Quantum Dots in Chemical and Biochemical Analysis377-403		1
13	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.. <i>Analytica Chimica Acta</i> , 2022 , 1203, 339701	6.6	0
12	Targeted Analysis of Tears Revealed Specific Altered Metal Homeostasis in Age-Related Macular Degeneration. 2022 , 63, 10		0
11	Flow Injection Analysis Techniques in Atomic Spectroscopy 2016 , 1-28		
10	Atomic Mass Spectrometry/LA-ICP-MS 2018 , 218-218		
9	Improving pulsed radiofrequency glow discharge for time-of-flight mass spectrometry simultaneous elemental and molecular analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 7431-434		
8	Photoluminescent Nanoparticles for Optical Imaging in Biology and Medicine. <i>Frontiers in Nanobiomedical Research</i> , 2014 , 307-344		
7	CHAPTER 1:An Overview of Atomic Spectrometric Techniques. <i>Metal Ions in Life Sciences</i> , 2013 , 1-51		
6	Glow Discharge Atomic Emission Spectrometry for the Analysis of Gases and as an Alternative Gas Chromatographic Detector381-400		
5	Applications of flow analysis with atomic spectrometric detectors in clinical and biological analysis. <i>Analytical Spectroscopy Library</i> , 1999 , 9, 342-374		

- 4 Synthesis of Iridium and Palladium Nanoclusters for Biomedical Applications. *Materials Proceedings*, **2021**, 4, 49 0.3
- 3 Chapter 1:A General Overview of Atomic Spectrometric Techniques. *Metal Ions in Life Sciences*, **2009**, 1-50
- 2 Elemental Direct Solid Analysis (GD-OES, LIBS, GD-MS and LA-ICP-MS) **2018**, 1-1
- 1 General purification methods of metal nanoclusters **2022**, 161-186