Joo L M Santos

List of Publications by Year in Descending Order

133 papers	2,538 citations	26 h-index	43 g-index
135 ext. papers	2,798 ext. citations	5.4 avg, IF	5.07 L-index

#	Paper	IF	Citations
133	The use of in-situ Raman spectroscopy to monitor at real time the quality of different types of edible oils under frying conditions. *Food Control*, **2022**, 136, 108879	6.2	0
132	A tutorial on multi-way data processing of excitation-emission fluorescence matrices acquired from semiconductor quantum dots sensing platforms.. *Analytica Chimica Acta*, **2022**, 1211, 339216	6.6	2
131	Cellulose-based hydrogel on quantum dots with molecularly imprinted polymers for the detection of CA19-9 protein cancer biomarker.. *Mikrochimica Acta*, **2022**, 189, 134	5.8	2
130	Photoluminescent and visual determination of ibandronic acid using a carbon dots/AgInS quantum dots ratiometric sensing platform. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 267, 120592	4.4	4
129	Protein discrimination using erythrosin B-based GUMBOS in combination with UV-Vis spectroscopy and chemometrics.. *Talanta*, **2021**, 240, 123164	6.2	0
128	Chemometric-assisted kinetic determination of oxytetracycline using AgInS quantum dots as PL sensing platforms. *Analytica Chimica Acta*, **2021**, 1188, 339174	6.6	2
127	Imprinted Fluorescent Cellulose Membranes for the On-Site Detection of Myoglobin in Biological Media.. *ACS Applied Bio Materials*, **2021**, 4, 4224-4235	4.1	7
126	Visual detection using quantum dots sensing platforms. *Coordination Chemistry Reviews*, **2021**, 429, 213637	23.2	16
125	Near infrared spectroscopy coupled to MCR-ALS for the identification and quantification of saffron adulterants: Application to complex mixtures. *Food Control*, **2021**, 123, 107776	6.2	4
124	Comparison of near infrared spectroscopy and Raman spectroscopy for the identification and quantification through MCR-ALS and PLS of peanut oil adulterants. *Talanta*, **2021**, 230, 122373	6.2	5
123	Development of an automated yeast-based spectrophotometric method for toxicity screening: Application to ionic liquids, GUMBOS, and deep eutectic solvents. *Chemosphere*, **2021**, 277, 130227	8.4	0
122	Multiplexed detection using quantum dots as photoluminescent sensing elements or optical labels. *Coordination Chemistry Reviews*, **2021**, 448, 214181	23.2	4
121	Determination of atenolol based on the reversion of the fluorescence resonance energy transfer between AgInS quantum dots and Au nanoparticles. *Analyst, The*, **2021**, 146, 1004-1015	5	6
120	Rationally designed synthesis of bright AgInS2/ZnS quantum dots with emission control. *Nano Research*, **2020**, 13, 2438-2450	10	13
119	Photocatalytic activity of AgInS2 quantum dots upon visible light irradiation for melatonin determination through its reactive oxygen species scavenging effect. *Microchemical Journal*, **2020**, 155, 104728	4.8	11
118	Detection of melamine and sucrose as adulterants in milk powder using near-infrared spectroscopy with DD-SIMCA as one-class classifier and MCR-ALS as a means to provide pure profiles of milk and of both adulterants with forensic evidence: A short communication. *Talanta*, **2020**, 216, 120937	6.2	21
117	Dual-emission CdTe/AgInS photoluminescence probe coupled to neural network data processing for the simultaneous determination of folic acid and iron (II). *Analytica Chimica Acta*, **2020**, 1114, 29-41	6.6	10

116	Label-free quantum dot conjugates for human protein IL-2 based on molecularly imprinted polymers. *Sensors and Actuators B: Chemical*, **2020**, 304, 127343	8.5	19
115	GUMBOS and nanoGUMBOS in chemical and biological analysis: A review. *Analytica Chimica Acta*, **2020**, 1133, 180-198	6.6	4
114	Portable and benchtop Raman spectrometers coupled to cluster analysis to identify quinine sulfate polymorphs in solid dosage forms and antimalarial drug quantification in solution by AuNPs-SERS with MCR-ALS. *Analytical Methods*, **2020**, 12, 2407-2421	3.2	4
113	Determination of glyphosate in soil samples using CdTe/CdS quantum dots in capillary electrophoresis. *Microchemical Journal*, **2019**, 146, 582-587	4.8	10
112	Semiconductor Quantum Dots in Chemical Analysis **2019**, 309-343		
111	Dual-emission ratiometric probe combining carbon dots and CdTe quantum dots for fluorometric and visual determination of H2O2. *Sensors and Actuators B: Chemical*, **2019**, 296, 126665	8.5	27
110	Exploiting the fluorescence resonance energy transfer (FRET) between CdTe quantum dots and Au nanoparticles for the determination of bioactive thiols. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 212, 246-254	4.4	12
109	Tuning CdTe quantum dots reactivity for multipoint detection of mercury(II), silver(I) and copper(II). *Journal of Luminescence*, **2019**, 207, 386-396	3.8	21
108	Plastic antibodies tailored on quantum dots for an optical detection of myoglobin down to the femtomolar range. *Scientific Reports*, **2018**, 8, 4944	4.9	28
107	Fluorescence probe for mercury(II) based on the aqueous synthesis of CdTe quantum dots stabilized with 2-mercaptoethanesulfonate. *New Journal of Chemistry*, **2017**, 41, 3265-3272	3.6	16
106	New Perspectives of Quantum Dots in the Food Field: Determination of β-Carotene in Tropical Fruit Juices and Food Supplements. *Food Analytical Methods*, **2017**, 10, 2412-2421	3.4	
105	Synthesis of distinctly thiol-capped CdTe quantum dots under microwave heating: multivariate optimization and characterization. *Journal of Materials Science*, **2017**, 52, 3208-3224	4.3	22
104	Multiplexed analysis combining distinctly-sized CdTe-MPA quantum dots and chemometrics for multiple mutually interfering analyte determination. *Talanta*, **2017**, 174, 572-580	6.2	15
103	Application of nanocrystalline CdTe quantum dots in chemical analysis: Implementation of chemo-sensing schemes based on analyte-triggered photoluminescence modulation. *Coordination Chemistry Reviews*, **2017**, 330, 127-143	23.2	46
102	Clean photoinduced generation of free reactive oxygen species by silica films embedded with CdTe/MTA quantum dots. *RSC Advances*, **2016**, 6, 8563-8571	3.7	6
101	Automated determination of Rifamycins making use of MPA/CdTe quantum dots. *Journal of Luminescence*, **2016**, 175, 158-164	3.8	11
100	Physical and chemical immobilization of choline oxidase onto different porous solid supports: Adsorption studies. *Enzyme and Microbial Technology*, **2016**, 90, 76-82	3.8	2
99	An eco-friendly method for analysis of sulfonamides in water samples using a multi-pumping system. *Canadian Journal of Chemistry*, **2016**, 94, 812-817	0.9	2

98	Nanoparticle-based assays in automated flow systems: A review. *Analytica Chimica Acta*, **2015**, 889, 22-34	6.6	26
97	Immobilization of Distinctly Capped CdTe Quantum Dots onto Porous Aminated Solid Supports. *ChemPhysChem*, **2015**, 16, 1880-8	3.2	5
96	Antioxidant capacity automatic assay based on inline photogenerated radical species from L-glutathione-capped CdTe quantum dots. *Talanta*, **2015**, 141, 220-9	6.2	12
95	Competitive metal-ligand binding between CdTe quantum dots and EDTA for free Ca2+ determination. *Talanta*, **2015**, 134, 173-182	6.2	17
94	Enhancing reactive species generation upon photo-activation of CdTe quantum dots for the chemiluminometric determination of unreacted reagent in UV/S2O8(2-) drug degradation process. *Talanta*, **2015**, 135, 27-33	6.2	17
93	Silica nanostructures synthesis and CdTe quantum dots immobilization for photocatalytical applications. *RSC Advances*, **2014**, 4, 59697-59705	3.7	7
92	pH-sensitive spectrophotometric control of nilutamide in an automatic micro-flow system. *New Journal of Chemistry*, **2014**, 38, 2856	3.6	12
91	Determination of copper in biodiesel samples using CdTe-GSH quantum dots as photoluminescence probes. *Microchemical Journal*, **2014**, 117, 144-148	4.8	18
90	Selective determination of sulphide based on photoluminescence quenching of MPA-capped CdTe nanocrystals by exploiting a gas-diffusion multi-pumping flow method. *Analytical Methods*, **2014**, 6, 7956-7966	3.2	12
89	Fluorescence enhancement of CdTe MPA-capped quantum dots by glutathione for hydrogen peroxide determination. *Talanta*, **2014**, 122, 157-65	6.2	34
88	Chemiluminometric determination of ascorbic acid in pharmaceutical formulations exploiting photo-activation of GSH-capped CdTe quantum dots. *Luminescence*, **2014**, 29, 901-7	2.5	13
87	A CdTe MPA quantum dot fluorescence enhancement flow method for chlorhexidine determination. *Analytical Methods*, **2014**, 6, 4240-4246	3.2	6
86	Determination of iron in biodiesel based on fluorescence quenching of CdTe quantum dots. *Fuel*, **2014**, 117, 520-527	7.1	25
85	Determination of ketoprofen based on its quenching effect in the fluorescence of quantum dots. *Journal of Food and Drug Analysis*, **2013**, 21, 426-431	7	10
84	Automatic multiple photodegradation unit on a multipumping flow system: Monitoring of ketoprofen. *Journal of Photochemistry and Photobiology A: Chemistry*, **2013**, 271, 77-84	4.7	4
83	A soft strategy for covalent immobilization of glutathione and cysteine capped quantum dots onto amino functionalized surfaces. *Chemical Communications*, **2013**, 49, 2518-20	5.8	9
82	Study of the quenching effect of quinolones over CdTe-quantum dots using sequential injection analysis and multicommutation. *Journal of Pharmaceutical and Biomedical Analysis*, **2013**, 80, 147-54	3.5	7
81	A novel multi-commutated method for the determination of hydroxytyrosol in enriched foods using mercaptopropionic acid-capped CdTe quantum dots. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2013**, 30, 1485-92	3.2	4

80	An Automated Multi-Pumping Pulsed Flow System with Spectrophotometric Detection for the Determination of Phosphate in Natural Waters. *Analytical Letters*, **2013**, 46, 1769-1778	2.2	6
79	Rapid Fluorimetric Quantitation of Ibandronate by Coupling Quantum Dots and Multicommutated Flow Injection Analysis. *Current Pharmaceutical Analysis*, **2013**, 9, 237-243	0.6	4
78	Evaluation of acetylcysteine promoting effect on CdTe nanocrystals photoluminescence by using a multipumping flow system. *Talanta*, **2012**, 96, 55-61	6.2	18
77	Chemiluminometric determination of captopril in a multi-pumping flow system. *Talanta*, **2012**, 96, 210-5	6.2	25
76	Exploiting adsorption and desorption at solid-liquid interface for the fluorometric monitoring of glibenclamide in adulterated drinks. *Analytica Chimica Acta*, **2012**, 721, 97-103	6.6	6
75	Application of quantum dots as analytical tools in automated chemical analysis: a review. *Analytica Chimica Acta*, **2012**, 735, 9-22	6.6	187
74	Photoactivation by visible light of CdTe quantum dots for inline generation of reactive oxygen species in an automated multipumping flow system. *Analytica Chimica Acta*, **2012**, 735, 69-75	6.6	23
73	Automatic miniaturized flow methodology with in-line solid-phase extraction for quinine determination in biological samples. *Analytical Methods*, **2012**, 4, 1681	3.2	2
72	An Automated Single Interface Flow System for the Spectrophotometric Determination of Ethanol in Beverages Based on Schlieren Effect. *Food Analytical Methods*, **2012**, 5, 867-873	3.4	9
71	Chemiluminometric evaluation of melatonin and selected melatonin precursorsTinteraction with reactive oxygen and nitrogen species. *Analytical Biochemistry*, **2012**, 420, 1-6	3.1	13
70	Mathematical Simulation of Signal Profiles in Flow Analysis. *Analytical Letters*, **2012**, 45, 85-98	2.2	2
69	A reagent-free method based on a photo-induced fluorimetry in a sequential injection system. *Talanta*, **2011**, 84, 1309-13	6.2	7
68	Cadmium telluride nanocrystals as luminescent sensitizers in flow analysis. *Talanta*, **2011**, 84, 1314-7	6.2	26
67	Automatic miniaturized fluorometric flow system for chemical and toxicological control of glibenclamide. *Talanta*, **2011**, 84, 1329-35	6.2	5
66	Automatic multi-pumping flow system for the chemiluminometric screening of scavenging capacity against singlet oxygen. *Analytical Sciences*, **2011**, 27, 827-32	1.7	4
65	Quantum dots assisted photocatalysis for the chemiluminometric determination of chemical oxygen demand using a single interface flow system. *Analytica Chimica Acta*, **2011**, 699, 193-7	6.6	44
64	Determination of phenylglyoxylic acid in urine using a multi-pumping flow system. *International Journal of Environmental Analytical Chemistry*, **2011**, 91, 1256-1266	1.8	3
63	Ciprofloxacin and Norfloxacin Spectrophotometric Determination in a Fully Automated Multi-Pumping Flow System. *Analytical Letters*, **2011**, 44, 2074-2084	2.2	8

62	Single interface flow system with potentiometric detection for the determination of nitrate in water and vegetables. *Talanta*, **2010**, 80, 1326-32	6.2	4
61	Exploitation of a single interface flow system for on-line aqueous biphasic extraction. *Talanta*, **2010**, 81, 1847-51	6.2	5
60	Automated determination of diazepam in spiked alcoholic beverages associated with drug-facilitated crimes. *Analytica Chimica Acta*, **2010**, 668, 67-73	6.6	15
59	Mathematical modeling of dispersion in single interface flow analysis. *Analytica Chimica Acta*, **2010**, 663, 178-83	6.6	
58	Diazepam fluorimetric monitoring upon photo-degradation in an automatic miniaturized flow system. *Journal of Fluorescence*, **2010**, 20, 915-22	2.4	4
57	Oscillating chemiluminescence systems: state of the art. *Luminescence*, **2010**, 25, 409-18	2.5	20
56	Single interface flow analysis with accuracy assessment. *Microchemical Journal*, **2010**, 94, 60-64	4.8	6
55	Rapid chemiluminometric determination of gabapentin in pharmaceutical formulations exploiting pulsed-flow analysis. *Luminescence*, **2009**, 24, 10-4	2.5	16
54	Liquid-liquid extraction in flow analysis: A critical review. *Analytica Chimica Acta*, **2009**, 652, 54-65	6.6	124
53	Mixing chambers in flow analysis: A review. *Journal of Analytical Chemistry*, **2009**, 64, 524-532	1.1	24
52	Exploiting pi-acceptors for the determination of thyroid hormones (T3 and T4) using a single interface flow system. *Talanta*, **2009**, 79, 1177-80	6.2	5
51	Evidences of turbulent mixing in multi-pumping flow systems. *Talanta*, **2009**, 79, 978-83	6.2	18
50	Exploiting the oxidative coupling reaction of MBTH for indapamide determination. *Talanta*, **2009**, 79, 1161-8	6.2	7
49	Automated Chemiluminometric Screening of Counterfeit Drugs of the Antituberculosis Agent Pyrazinamide. *Journal of AOAC INTERNATIONAL*, **2009**, 92, 830-836	1.7	5
48	Single reaction interface flow system for chemiluminescent monitoring of mannitol based on its hydroxyl radical scavenger activity. *Talanta*, **2008**, 77, 518-521	6.2	9
47	Automatic Multipumping Flow System for Handling Viscous Solutions: Application to the Spectrophotometric Determination of Trimipramine. *Analytical Letters*, **2008**, 41, 2684-2696	2.2	3
46	Simultaneous chemiluminometric determination of levodopa and benserazide in a multi-pumping flow system with multivariate calibration. *Analytical Sciences*, **2008**, 24, 985-91	1.7	13
45	Multi-commutation in flow analysis: recent developments and applications. *Analytica Chimica Acta*, **2008**, 618, 1-17	6.6	49

44	Multi-pumping flow system for the determination of nitrite and nitrate in water samples. *Mikrochimica Acta*, **2008**, 161, 73-79	5.8	23
43	Piezoelectric pumping in flow analysis: Application to the spectrophotometric determination of gabapentin. *Analytica Chimica Acta*, **2007**, 600, 14-20	6.6	26
42	Multi-pumping flow systems: the potential of simplicity. *Analytica Chimica Acta*, **2007**, 600, 21-8	6.6	42
41	Exploiting kinetic spectrophotometric determination of captopril, an angiotensin-converting enzyme inhibitor, in a multi-pumping flow system. *Analytica Chimica Acta*, **2007**, 600, 183-7	6.6	29
40	New noncellular fluorescence microplate screening assay for scavenging activity against singlet oxygen. *Analytical and Bioanalytical Chemistry*, **2007**, 387, 2071-81	4.4	45
39	A critical comparison of analytical flow systems exploiting streamlined and pulsed flows. *Analytical and Bioanalytical Chemistry*, **2007**, 388, 1303-10	4.4	18
38	Sequential Injection Spectrophotometric Determination of Metoclopramide in Pharmaceutical Preparations. *Spectroscopy Letters*, **2007**, 40, 51-61	1.1	6
37	A multipumping flow system for in vitro screening of peroxynitrite scavengers. *Journal of Biomolecular Screening*, **2007**, 12, 875-80		6
36	A multi-pumping flow system for chemiluminescent determination of ammonium in natural waters. *International Journal of Environmental Analytical Chemistry*, **2007**, 87, 77-85	1.8	9
35	Multipumping Flow Systems: An Alternative Approach to Sample Handling in Spectroscopy Measurements. *Spectroscopy Letters*, **2007**, 40, 41-50	1.1	10
34	Application of Pulsed Flow Analysis for Chemiluminescent Screening of Fluoxetine Counterfeit Pharmaceuticals. *Analytical Letters*, **2007**, 40, 2241-2251	2.2	5
33	Fluidized beds in flow analysis: use with ion-exchange separation for spectrophotometric determination of zinc in plant digests. *Analytical and Bioanalytical Chemistry*, **2006**, 384, 1019-24	4.4	28
32	Fully Automated Spectrophotometric Method for the Determination of Buspirone in Pharmaceutical Preparations. *Analytical Letters*, **2006**, 39, 2243-2253	2.2	6
31	Fluorimetric determination of aminocaproic acid in pharmaceutical formulations using a sequential injection analysis system. *Talanta*, **2006**, 68, 857-62	6.2	15
30	Automatic flow system for the sequential determination of copper in serum and urine by flame atomic absorption spectrometry. *Analytica Chimica Acta*, **2006**, 555, 370-376	6.6	26
29	Chemiluminometric determination of carvedilol in a multi-pumping flow system. *Talanta*, **2005**, 68, 239-44	6.2	23
28	Single reaction interface in flow analysis. *Talanta*, **2005**, 68, 351-8	6.2	11
27	Determination of ambroxol in an automated multi-pumping pulsed flow system. *Analytical Sciences*, **2005**, 21, 461-4	1.7	7

26	Chemiluminometric determination of propranolol in an automated multicommutated flow system. *Journal of Pharmaceutical and Biomedical Analysis*, **2005**, 39, 886-91	3.5	18
25	Evaluation of the total antioxidant capacity by using a multipumping flow system with chemiluminescent detection. *Analytical Biochemistry*, **2005**, 345, 90-5	3.1	24
24	An improved sampling approach in multi-pumping flow systems applied to the spectrophotometric determination of glucose and fructose in syrups. *Analytica Chimica Acta*, **2005**, 531, 279-284	6.6	26
23	A pulsed sequential injection analysis flow system for the fluorimetric determination of indomethacin in pharmaceutical preparations. *Analytica Chimica Acta*, **2005**, 539, 173-179	6.6	27
22	Multicommutated Flow System with Amperometric Detection. Determination of Uric Acid in Urine. *Electroanalysis*, **2005**, 17, 2156-2162	3	11
21	A catalytic multi-pumping flow system for the chemiluminometric determination of metformin. *Analytical and Bioanalytical Chemistry*, **2005**, 382, 452-7	4.4	11
20	Multicommutated flow system for the chemiluminometric determination of clomipramine in pharmaceutical preparations. *Analytica Chimica Acta*, **2004**, 518, 31-36	6.6	20
19	Determination of aluminum(III) in crystallized fruit samples using a multicommutated flow system. *Journal of Agricultural and Food Chemistry*, **2004**, 52, 2450-4	5.7	12
18	Multi-pumping flow systems: an automation tool. *Talanta*, **2004**, 64, 1091-8	6.2	86
17	Sampling strategies exploiting multi-pumping flow systems. *Analytical and Bioanalytical Chemistry*, **2003**, 375, 1234-9	4.4	7
16	Multi-pumping flow system for spectrophotometric determination of bromhexine. *Analytica Chimica Acta*, **2003**, 499, 107-113	6.6	27
15	Multi-pumping flow system for the spectrophotometric determination of dipyrone in pharmaceutical preparations. *Journal of Pharmaceutical and Biomedical Analysis*, **2003**, 32, 1011-7	3.5	21
14	Trimipramine determination in pharmaceutical preparations with an automated multicommutated reversed-flow system. *Journal of Pharmaceutical and Biomedical Analysis*, **2003**, 33, 903-10	3.5	9
13	Automated spectrophotometric determination of clomipramine on a multicommutated flow system. *Analytica Chimica Acta*, **2002**, 467, 75-81	6.6	13
12	Multi-pumping in flow analysis: concepts, instrumentation, potentialities. *Analytica Chimica Acta*, **2002**, 466, 125-132	6.6	164
11	Multicommutation in flow analysis: concepts, applications and trends. *Analytica Chimica Acta*, **2002**, 468, 119-131	6.6	169
10	Spectrophotometric determination of phytic acid in plant extracts using a multi-pumping flow system. *Analytica Chimica Acta*, **2002**, 474, 161-166	6.6	31
9	Fluorimetric determination of isoniazid by oxidation with cerium(IV) in a multicommutated flow system. *Analytica Chimica Acta*, **2000**, 419, 17-23	6.6	66

8	Dual-stopped-flow spectrophotometric determination of amiloride hydrochloride in a multicommutated flow system. *Analytica Chimica Acta*, **2000**, 407, 225-231	6.6	22
7	Exploitation of micellar medium for photochemical-spectrofluorimetric flow-injection determination of fenvalerate. *Chemometrics and Intelligent Laboratory Systems*, **1999**, 34, 143-148		6
6	A multicommutated flow system with on-line compensation of the Schlieren effect applied to the spectrophotometric determination of pindolol. *Analytica Chimica Acta*, **1998**, 366, 209-215	6.6	28
5	Continuous sample recirculation in an opened-loop multicommutated flow system. *Analytica Chimica Acta*, **1998**, 377, 103-110	6.6	16
4	Photochemical-fluorimetric determination of folic acid in a multicommutated flow system. *Analytica Chimica Acta*, **1997**, 351, 223-228	6.6	51
3	FIA automatic dilution system for the determination of metallic cations in waters by atomic absorption and flame emission spectrometry. *Journal of Automated Methods and Management in Chemistry*, **1996**, 18, 17-21		13
2	Determination of calcium, magnesium, sodium and potassium in wines by FIA using an automatic zone sampling system. *Food Chemistry*, **1996**, 55, 397-402	8.5	15
1	The Concept of Multi-Commutation in Flow Analysis167-202		