

# Maria Jose Ayora-Caada

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72  
papers

2,166  
citations

26  
h-index

44  
g-index

77  
ext. papers

2,370  
ext. citations

4.5  
avg, IF

4.66  
L-index

#	Paper	IF	Citations
72	Multisensor hyperspectral imaging approach for the microchemical analysis of ultramarine blue pigments.. <i>Scientific Reports</i> , <b>2022</b> , 12, 707	4.9	0
71	Spectroscopic Investigation of Wall Paintings in the Alhambra Monumental Ensemble: Decorations with Red Bricks. <i>Crystals</i> , <b>2021</b> , 11, 423	2.3	1
70	Monitoring UV-accelerated alteration processes of paintings by means of hyperspectral micro-FTIR imaging and chemometrics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2021</b> , 253, 119568	4.4	2
69	Natural or synthetic? Simultaneous Raman/luminescence hyperspectral microimaging for the fast distinction of ultramarine pigments. <i>Dyes and Pigments</i> , <b>2020</b> , 178, 108349	4.6	8
68	Improvement of quality and agronomic properties of raw organic amendment mixtures by thermal treatment. <i>Journal of Material Cycles and Waste Management</i> , <b>2020</b> , 22, 159-166	3.4	0
67	Romantic restorations in the Alhambra monument: Spectroscopic characterization of decorative plasterwork in the Royal Baths of Comares. <i>Journal of Raman Spectroscopy</i> , <b>2019</b> , 50, 184-192	2.3	12
66	Comparing mapping and direct hyperspectral imaging in stand-off Raman spectroscopy for remote material identification. <i>Journal of Raman Spectroscopy</i> , <b>2019</b> , 50, 1034-1043	2.3	2
65	Raman and Fourier transform infrared microspectroscopies reveal medieval Hispano-Muslim wood painting techniques and provide new insights into red lead production technology. <i>Journal of Raman Spectroscopy</i> , <b>2019</b> , 50, 1537-1545	2.3	10
64	Characterization of organic materials in the decoration of ornamental structures in the Alhambra monumental ensemble using gas-chromatography/mass spectrometry (GC/MS). <i>Microchemical Journal</i> , <b>2018</b> , 140, 14-23	4.8	12
63	Infrared spectroscopy as a tool for the assessment of soil biological quality in agricultural soils under contrasting management practices. <i>Ecological Indicators</i> , <b>2018</b> , 87, 117-126	5.8	22
62	Near-infrared spectroscopy and X-ray fluorescence data fusion for olive leaf analysis and crop nutritional status determination. <i>Talanta</i> , <b>2018</b> , 188, 676-684	6.2	17
61	Hyperspectral FTIR imaging of olive fruit for understanding ripening processes. <i>Postharvest Biology and Technology</i> , <b>2018</b> , 145, 74-82	6.2	14
60	Thermal destruction of organic waste hydrophobicity for agricultural soils application. <i>Journal of Environmental Management</i> , <b>2017</b> , 202, 94-105	7.9	7
59	In situ Raman spectroscopic study of marble capitals in the Alhambra monumental ensemble <b>2017</b> , 87-94		
58	Authentication of canned fish packing oils by means of Fourier transform infrared spectroscopy. <i>Food Chemistry</i> , <b>2016</b> , 190, 122-127	8.5	25
57	In situ Raman spectroscopic study of marble capitals in the Alhambra monumental ensemble. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	11
56	Gold in the Alhambra: study of materials, technologies, and decay processes on decorative gilded plasterwork. <i>Journal of Raman Spectroscopy</i> , <b>2014</b> , 45, 1052-1058	2.3	17

55	Agro-environmental characterization of semi-arid Mediterranean soils using NIR reflection and mid-IR-attenuated total reflection spectroscopies. <i>Vibrational Spectroscopy</i> , <b>2014</b> , 74, 88-97	2.1	11
54	Decorated plasterwork in the Alhambra investigated by Raman spectroscopy: comparative field and laboratory study. <i>Journal of Raman Spectroscopy</i> , <b>2014</b> , 45, 1006-1012	2.3	27
53	Identification of lipidic binding media in plasterwork decorations from the Alhambra using GCMS and chemometrics: Influence of pigments and aging. <i>Microchemical Journal</i> , <b>2014</b> , 115, 11-18	4.8	12
52	Raman Microspectroscopic study of Iberian pottery from the La Vispesa archaeological site, Spain. <i>Journal of Raman Spectroscopy</i> , <b>2012</b> , 43, 317-322	2.3	16
51	In situ noninvasive Raman microspectroscopic investigation of polychrome plasterworks in the Alhambra. <i>Analyst, The</i> , <b>2012</b> , 137, 5763-9	5	33
50	Olive oil assessment in edible oil blends by means of ATR-FTIR and chemometrics. <i>Food Control</i> , <b>2012</b> , 23, 449-455	6.2	107
49	Discrimination of aged mixtures of lipidic paint binders by Raman spectroscopy and chemometrics. <i>Journal of Raman Spectroscopy</i> , <b>2012</b> , 43, 781-786	2.3	20
48	Effect of soil type and management (organic vs. conventional) on soil organic matter quality in olive groves in a semi-arid environment in Sierra Mágina Natural Park (S Spain). <i>Geoderma</i> , <b>2011</b> , 164, 54-63	6.7	74
47	Olive fruit growth and ripening as seen by vibrational spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 82-7	5.7	47
46	Analytical study of polychromy on exterior sculpted stone. <i>Journal of Raman Spectroscopy</i> , <b>2009</b> , 40, 2104-2110	2.3	17
45	Determination of enzyme activity inhibition by FTIR spectroscopy on the example of fructose bisphosphatase. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 394, 2137-44	4.4	9
44	Feasibility study on the use of infrared spectroscopy for the direct authentication of Iberian pig fattening diet. <i>Analytica Chimica Acta</i> , <b>2009</b> , 636, 183-9	6.6	20
43	Separation of single-walled carbon nanotubes by use of ionic liquid-aided capillary electrophoresis. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 2672-9	7.8	48
42	Pharmaceutical powders analysis using FT-Raman spectrometry: simultaneous determination of sulfathiazole and sulfanilamide. <i>Talanta</i> , <b>2008</b> , 74, 1603-7	6.2	11
41	Ion mobility spectrometry of volatile compounds from Iberian pig fat for fast feeding regime authentication. <i>Talanta</i> , <b>2008</b> , 76, 591-6	6.2	43
40	Renaissance patinas in Ubeda (Spain): mineralogic, petrographic and spectroscopic study. <i>Analytical and Bioanalytical Chemistry</i> , <b>2008</b> , 391, 1039-48	4.4	15
39	Pesticide residues in washing water of olive oil mills: effect on olive washing efficiency and decontamination proposal. <i>Journal of the Science of Food and Agriculture</i> , <b>2008</b> , 88, 2467-2473	4.3	7
38	Assessment of dentifrice adulteration with diethylene glycol by means of ATR-FTIR spectroscopy and chemometrics. <i>Analytica Chimica Acta</i> , <b>2008</b> , 620, 113-9	6.6	13

37	Containerless reaction monitoring in ionic liquids by means of Raman microspectroscopy. <i>Lab on a Chip</i> , <b>2007</b> , 7, 126-32	7.2	18
36	Determination of pesticides in olives by gas chromatography using different detection systems. <i>Journal of Chromatography A</i> , <b>2007</b> , 1145, 195-203	4.5	33
35	Two-dimensional correlation spectroscopy and multivariate curve resolution for the study of lipid oxidation in edible oils monitored by FTIR and FT-Raman spectroscopy. <i>Analytica Chimica Acta</i> , <b>2007</b> , 593, 54-67	6.6	129
34	Enzyme kinetics assay in ionic liquid-based reaction media by means of Raman spectroscopy and multivariate curve resolution. <i>Microchemical Journal</i> , <b>2007</b> , 87, 93-98	4.8	11
33	Effect of washing on pesticide residues in olives. <i>Journal of Food Science</i> , <b>2007</b> , 72, C139-43	3.4	31
32	Probing intermolecular interactions in water/ionic liquid mixtures by far-infrared spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 4446-52	3.4	130
31	Determination of Triazine Herbicides and Diuron in Mud from Olive Washing Devices and Soils Using Gas Chromatography with Selective Detectors. <i>Analytical Letters</i> , <b>2006</b> , 39, 835-850	2.2	2
30	Association of methanol and water in ionic liquids elucidated by infrared spectroscopy using two-dimensional correlation and multivariate curve resolution. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 10896-902	3.4	121
29	Detection of albumin unfolding preceding proteolysis using Fourier transform infrared spectroscopy and chemometric data analysis. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 3257-64	7.8	34
28	Influence of harvesting method and washing on the presence of pesticide residues in olives and olive oil. <i>Journal of Agricultural and Food Chemistry</i> , <b>2006</b> , 54, 8538-44	5.7	26
27	Simplified pesticide multiresidue analysis in virgin olive oil by gas chromatography with thermoionic specific, electron-capture and mass spectrometric detection. <i>Journal of Chromatography A</i> , <b>2006</b> , 1108, 231-9	4.5	52
26	Raman spectroscopic study of base catalyzed di- and trimerization of malononitrile in ionic liquids and water. <i>Journal of Molecular Structure</i> , <b>2006</b> , 799, 146-152	3.4	10
25	Fourier-Transform Near-Infrared Spectroscopy as a Tool for Olive Fruit Classification and Quantitative Analysis. <i>Spectroscopy Letters</i> , <b>2005</b> , 38, 769-785	1.1	17
24	Flow-through sensor with Fourier transform Raman detection for determination of sulfonamides. <i>Analyst, The</i> , <b>2005</b> , 130, 1617-23	5	16
23	Direct monitoring of lipid oxidation in edible oils by Fourier transform Raman spectroscopy. <i>Chemistry and Physics of Lipids</i> , <b>2005</b> , 134, 173-82	3.7	185
22	Determination of oil and water content in olive pomace using near infrared and Raman spectrometry. A comparative study. <i>Analytical and Bioanalytical Chemistry</i> , <b>2004</b> , 379, 35-41	4.4	55
21	Discrimination of olives according to fruit quality using Fourier transform Raman spectroscopy and pattern recognition techniques. <i>Journal of Agricultural and Food Chemistry</i> , <b>2004</b> , 52, 6055-60	5.7	39
20	Direct, reagent-free determination of free fatty acid content in olive oil and olives by Fourier transform Raman spectrometry. <i>Analytica Chimica Acta</i> , <b>2003</b> , 487, 211-220	6.6	98

19	Fourier transform Raman spectrometry for the quantitative analysis of oil content and humidity in olives. <i>Applied Spectroscopy</i> , <b>2003</b> , 57, 233-7	3.1	23
18	Determination of piroxicam by solid-phase spectrophotometry in a continuous flow system. <i>European Journal of Pharmaceutical Sciences</i> , <b>2002</b> , 15, 179-83	5.1	18
17	Determination of yeast assimilable nitrogen content in wine fermentations by sequential injection analysis with spectrophotometric detection. <i>Analytical and Bioanalytical Chemistry</i> , <b>2002</b> , 374, 167-72	4.4	4
16	2D correlation spectroscopy and multivariate curve resolution in analyzing pH-dependent evolving systems monitored by FT-IR spectroscopy, a comparative study. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 4944-54	7.8	26
15	Bead injection for surface enhanced Raman spectroscopy: automated on-line monitoring of substrate generation and application in quantitative analysis. <i>Analyst, The</i> , <b>2002</b> , 127, 1365-9	5	28
14	A rapid method for peroxide value determination in edible oils based on flow analysis with Fourier transform infrared spectroscopic detection. <i>Analyst, The</i> , <b>2001</b> , 126, 242-6	5	52
13	Determination of Vanadium by Solid-Phase Spectrophotometry in a Continuous Flow System. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2000</b> , 76, 319-330	1.8	9
12	A flow-through solid phase UV spectrophotometric biparameter sensor for the sequential determination of ascorbic acid and paracetamol. <i>Analytica Chimica Acta</i> , <b>2000</b> , 404, 131-139	6.6	47
11	Study of acidBase titration of succinic and malic acid in aqueous solution by two-dimensional FTIR correlation spectroscopy. <i>Vibrational Spectroscopy</i> , <b>2000</b> , 24, 297-306	2.1	17
10	Selective determination of pyridoxine in the presence of hydrosoluble vitamins using a continuous-flow solid phase sensing device with UV detection. <i>International Journal of Pharmaceutics</i> , <b>2000</b> , 202, 113-20	6.5	24
9	Fast determination of paracetamol by using a very simple photometric flow-through sensing device. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2000</b> , 22, 59-66	3.5	46
8	Sheath-flow Fourier transform infrared spectrometry for the simultaneous determination of citric, malic and tartaric acids in soft drinks. <i>Analytica Chimica Acta</i> , <b>2000</b> , 417, 41-50	6.6	16
7	Quantitative Phosphate Analysis in Industrial Raw Phosphoric Acid Based on Evaluation of Bandshifts in FT-Raman Spectroscopy. <i>Applied Spectroscopy</i> , <b>2000</b> , 54, 1610-1616	3.1	16
6	An integrated reaction-retention and spectrophotometric detection flow system for the determination of nickel. <i>Fresenius Journal of Analytical Chemistry</i> , <b>1999</b> , 363, 59-63		8
5	Solid phase Fourier transform near infrared spectroscopy. <i>Analyst, The</i> , <b>1999</b> , 124, 579-582	5	19
4	Solid-phase UV spectroscopic multisensor for the simultaneous determination of caffeine, dimenhydrinate and acetaminophen by using partial least squares multicalibration. <i>Talanta</i> , <b>1999</b> , 49, 691-701	6.2	27
3	Continuous flow-through solid phase spectrophotometric determination of trace amounts of zinc. <i>Analytica Chimica Acta</i> , <b>1998</b> , 375, 71-80	6.6	27
2	Solid-Phase Spectrophotometric Determination of Beryllium at ng mL <sup>-1</sup> . <i>Spectroscopy Letters</i> , <b>1998</b> , 31, 503-520	1.1	7

- 1 Detection of atmospheric contaminants in aerosols by surface-enhanced Raman spectrometry.  
*Analytica Chimica Acta*, **1997**, 355, 15-21 6.6 22