

Maria Jose Ayora-Cañada

List of Publications by Year in descending order

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74
papers

2,592
citations

201674

27
h-index

206112

48
g-index

77
all docs

77
docs citations

77
times ranked

3056
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct monitoring of lipid oxidation in edible oils by Fourier transform Raman spectroscopy. <i>Chemistry and Physics of Lipids</i> , 2005, 134, 173-182.	3.2	237
2	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> , 2007, 593, 54-67.	5.4	152
3	Probing Intermolecular Interactions in Water/Ionic Liquid Mixtures by Far-infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4446-4452.	2.6	140
4	Olive oil assessment in edible oil blends by means of ATR-FTIR and chemometrics. <i>Food Control</i> , 2012, 23, 449-455.	5.5	133
5	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> , 2006, 110, 10896-10902.	2.6	130
6	Direct, reagent-free determination of free fatty acid content in olive oil and olives by Fourier transform Raman spectrometry. <i>Analytica Chimica Acta</i> , 2003, 487, 211-220.	5.4	109
7	Effect of soil type and management (organic vs. conventional) on soil organic matter quality in olive groves in a semi-arid environment in Sierra Mgina Natural Park (S Spain). <i>Geoderma</i> , 2011, 164, 54-63.	5.1	96
8	Determination of oil and water content in olive pomace using near infrared and Raman spectrometry. A comparative study. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 379, 35-41.	3.7	68
9	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> , 2006, 1108, 231-239.	3.7	65
10	A rapid method for peroxide value determination in edible oils based on flow analysis with Fourier transform infrared spectroscopic detection. <i>Analyst</i> , The, 2001, 126, 242-246.	3.5	64
11	Fast determination of paracetamol by using a very simple photometric flow-through sensing device. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2000, 22, 59-66.	2.8	56
12	A flow-through solid phase UV spectrophotometric biparameter sensor for the sequential determination of ascorbic acid and paracetamol. <i>Analytica Chimica Acta</i> , 2000, 404, 131-139.	5.4	53
13	Olive Fruit Growth and Ripening as Seen by Vibrational Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 82-87.	5.2	53
14	Separation of Single-Walled Carbon Nanotubes by Use of Ionic Liquid-Aided Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2008, 80, 2672-2679.	6.5	50
15	Ion mobility spectrometry of volatile compounds from Iberian pig fat for fast feeding regime authentication. <i>Talanta</i> , 2008, 76, 591-596.	5.5	50
16	Discrimination of Olives According to Fruit Quality Using Fourier Transform Raman Spectroscopy and Pattern Recognition Techniques. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 6055-6060.	5.2	42
17	Effect of Washing on Pesticide Residues in Olives. <i>Journal of Food Science</i> , 2007, 72, C139-C143.	3.1	42
18	Determination of pesticides in olives by gas chromatography using different detection systems. <i>Journal of Chromatography A</i> , 2007, 1145, 195-203.	3.7	39

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19	In situ noninvasive Raman microspectroscopic investigation of polychrome plasterworks in the Alhambra. <i>Analyst, The</i> , 2012, 137, 5763.	3.5	36
20	Detection of Albumin Unfolding Preceding Proteolysis Using Fourier Transform Infrared Spectroscopy and Chemometric Data Analysis. <i>Analytical Chemistry</i> , 2006, 78, 3257-3264.	6.5	35
21	Continuous flow-through solid phase spectrophotometric determination of trace amounts of zinc. <i>Analytica Chimica Acta</i> , 1998, 375, 71-80.	5.4	34
22	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> , 2006, 54, 8538-8544.	5.2	32
23	Decorated plasterwork in the Alhambra investigated by Raman spectroscopy: comparative field and laboratory study. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 1006-1012.	2.5	32
24	Solid-phase UV spectroscopic multisensor for the simultaneous determination of caffeine, dimenhydrinate and acetaminophen by using partial least squares multicalibration. <i>Talanta</i> , 1999, 49, 691-701.	5.5	30
25	Feasibility study on the use of infrared spectroscopy for the direct authentication of Iberian pig fattening diet. <i>Analytica Chimica Acta</i> , 2009, 636, 183-189.	5.4	30
26	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> , 2000, 202, 113-120.	5.2	29
27	Bead injection for surface enhanced Raman spectroscopy: automated on-line monitoring of substrate generation and application in quantitative analysis. <i>Analyst, The</i> , 2002, 127, 1365-1369.	3.5	29
28	Near-infrared spectroscopy and X-ray fluorescence data fusion for olive leaf analysis and crop nutritional status determination. <i>Talanta</i> , 2018, 188, 676-684.	5.5	29
29	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> , 2002, 74, 4944-4954.	6.5	28
30	Detection of atmospheric contaminants in aerosols by surface-enhanced Raman spectrometry. <i>Analytica Chimica Acta</i> , 1997, 355, 15-21.	5.4	27
31	Discrimination of aged mixtures of lipidic paint binders by Raman spectroscopy and chemometrics. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 781-786.	2.5	27
32	Authentication of canned fish packing oils by means of Fourier transform infrared spectroscopy. <i>Food Chemistry</i> , 2016, 190, 122-127.	8.2	27
33	Infrared spectroscopy as a tool for the assessment of soil biological quality in agricultural soils under contrasting management practices. <i>Ecological Indicators</i> , 2018, 87, 117-126.	6.3	27
34	Fourier Transform Raman Spectrometry for the Quantitative Analysis of Oil Content and Humidity in Olives. <i>Applied Spectroscopy</i> , 2003, 57, 233-237.	2.2	26
35	Hyperspectral FTIR imaging of olive fruit for understanding ripening processes. <i>Postharvest Biology and Technology</i> , 2018, 145, 74-82.	6.0	24
36	Solid phase Fourier transform near infrared spectroscopy. <i>Analyst, The</i> , 1999, 124, 579-582.	3.5	22

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37	Sheath-flow Fourier transform infrared spectrometry for the simultaneous determination of citric, malic and tartaric acids in soft drinks. <i>Analytica Chimica Acta</i> , 2000, 417, 41-50.	5.4	22
38	Determination of piroxicam by solid-phase spectrophotometry in a continuous flow system. <i>European Journal of Pharmaceutical Sciences</i> , 2002, 15, 179-183.	4.0	22
39	Containerless reaction monitoring in ionic liquids by means of Raman microspectroscopy. <i>Lab on a Chip</i> , 2007, 7, 126-132.	6.0	21
40	Study of acid-base titration of succinic and malic acid in aqueous solution by two-dimensional FTIR correlation spectroscopy. <i>Vibrational Spectroscopy</i> , 2000, 24, 297-306.	2.2	19
41	Quantitative Phosphate Analysis in Industrial Raw Phosphoric Acid Based on Evaluation of Bandshifts in FT-Raman Spectroscopy. <i>Applied Spectroscopy</i> , 2000, 54, 1610-1616.	2.2	19
42	Gold in the Alhambra: study of materials, technologies, and decay processes on decorative gilded plasterwork. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 1052-1058.	2.5	19
43	Flow-through sensor with Fourier transform Raman detection for determination of sulfonamides. <i>Analyt, The</i> , 2005, 130, 1617.	3.5	18
44	Raman Microspectroscopic study of Iberian pottery from the <i>La Vispesa</i> archaeological site, Spain. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 317-322.	2.5	18
45	Fourier Transform Near Infrared Spectroscopy as a Tool for Olive Fruit Classification and Quantitative Analysis. <i>Spectroscopy Letters</i> , 2005, 38, 769-785.	1.0	17
46	Assessment of dentifrice adulteration with diethylene glycol by means of ATR-FTIR spectroscopy and chemometrics. <i>Analytica Chimica Acta</i> , 2008, 620, 113-119.	5.4	17
47	Analytical study of polychromy on exterior sculpted stone. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 2104-2110.	2.5	17
48	Renaissance patinas in <i>Álbeda</i> (Spain): mineralogic, petrographic and spectroscopic study. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 1039-1048.	3.7	16
49	Natural or synthetic? Simultaneous Raman/luminescence hyperspectral microimaging for the fast distinction of ultramarine pigments. <i>Dyes and Pigments</i> , 2020, 178, 108349.	3.7	15
50	Identification of lipidic binding media in plasterwork decorations from the Alhambra using GC-MS and chemometrics: Influence of pigments and aging. <i>Microchemical Journal</i> , 2014, 115, 11-18.	4.5	14
51	Romantic restorations in the Alhambra monument: Spectroscopic characterization of decorative plasterwork in the Royal Baths of Comares. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 184-192.	2.5	14
52	Enzyme kinetics assay in ionic liquid-based reaction media by means of Raman spectroscopy and multivariate curve resolution. <i>Microchemical Journal</i> , 2007, 87, 93-98.	4.5	13
53	Agro-environmental characterization of semi-arid Mediterranean soils using NIR reflection and mid-IR-attenuated total reflection spectroscopies. <i>Vibrational Spectroscopy</i> , 2014, 74, 88-97.	2.2	13
54	Thermal destruction of organic waste hydrophobicity for agricultural soils application. <i>Journal of Environmental Management</i> , 2017, 202, 94-105.	7.8	13

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55	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> , 2018, 140, 14-23.	4.5	13
56	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> , 2019, 50, 1537-1545.	2.5	13
57	Pharmaceutical powders analysis using FT-Raman spectrometry: Simultaneous determination of sulfathiazole and sulfanilamide. <i>Talanta</i> , 2008, 74, 1603-1607.	5.5	12
58	In situ Raman spectroscopic study of marble capitals in the Alhambra monumental ensemble. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	12
59	Determination of Vanadium by Solid-Phase Spectrophotometry in a Continuous Flow System. <i>International Journal of Environmental Analytical Chemistry</i> , 2000, 76, 319-330.	3.3	11
60	An integrated reaction-retention and spectrophotometric detection flow system for the determination of nickel. <i>Fresenius' Journal of Analytical Chemistry</i> , 1999, 363, 59-63.	1.5	10
61	Raman spectroscopic study of base catalyzed di- and trimerization of malononitrile in ionic liquids and water. <i>Journal of Molecular Structure</i> , 2006, 799, 146-152.	3.6	10
62	Determination of enzyme activity inhibition by FTIR spectroscopy on the example of fructose bisphosphatase. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 2137-2144.	3.7	10
63	Solid-Phase Spectrophotometric Determination of Beryllium at ng mL ⁻¹ . <i>Spectroscopy Letters</i> , 1998, 31, 503-520.	1.0	9
64	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> , 2008, 88, 2467-2473.	3.5	9
65	Determination of Triazine Herbicides and Diuron in Mud from Olive Washing Devices and Soils Using Gas Chromatography with Selective Detectors. <i>Analytical Letters</i> , 2006, 39, 835-850.	1.8	7
66	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> , 2021, 253, 119568.	3.9	7
67	Multisensor hyperspectral imaging approach for the microchemical analysis of ultramarine blue pigments. <i>Scientific Reports</i> , 2022, 12, 707.	3.3	7
68	Comparing mapping and direct hyperspectral imaging in stand-off Raman spectroscopy for remote material identification. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1034-1043.	2.5	6
69	Determination of yeast assimilable nitrogen content in wine fermentations by sequential injection analysis with spectrophotometric detection. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 374, 167-172.	3.7	5
70	Characterization of Wall Paintings of the Harem Court in the Alhambra Monumental Ensemble: Advantages and Limitations of In Situ Analysis. <i>Molecules</i> , 2022, 27, 1490.	3.8	4
71	Improvement of quality and agronomic properties of raw organic amendment mixtures by thermal treatment. <i>Journal of Material Cycles and Waste Management</i> , 2020, 22, 159-166.	3.0	2
72	Spectroscopic Investigation of Wall Paintings in the Alhambra Monumental Ensemble: Decorations with Red Bricks. <i>Crystals</i> , 2021, 11, 423.	2.2	2

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73	In situ Raman spectroscopic study of marble capitals in the Alhambra monumental ensemble. , 2017 , 87-94.		0
74	Elementos arquitectónicos de la capilla funeraria de Sarenput II (QH31) en Qubbet el-Hawa. Caracterización geoquímica. Trabajos De Egiptología Papers on Ancient Egypt, 2019 , 227-240.	0.0	0