

# Javier Moros

## List of Publications by Citations

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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.

62

papers

2,131

citations

28

h-index

45

g-index

63

ext. papers

2,413

ext. citations

5.5

avg, IF

5.01

L-index

#	Paper	IF	Citations
62	Laser-induced breakdown spectroscopy. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 640-69	7.8	301
61	Vibrational spectroscopy provides a green tool for multi-component analysis. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2010</b> , 29, 578-591	14.6	178
60	Simultaneous Raman spectroscopy-laser-induced breakdown spectroscopy for instant standoff analysis of explosives using a mobile integrated sensor platform. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 1389-400	7.8	111
59	New Raman-laser-induced breakdown spectroscopy identity of explosives using parametric data fusion on an integrated sensing platform. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 6275-85	7.8	98
58	Use of reflectance infrared spectroscopy for monitoring the metal content of the estuarine sediments of the Nerbioi-Ibaizabal River (Metropolitan Bilbao, Bay of Biscay, Basque Country). <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 9314-20	10.3	69
57	Evaluation of nutritional parameters in infant formulas and powdered milk by Raman spectroscopy. <i>Analytica Chimica Acta</i> , <b>2007</b> , 593, 30-8	6.6	62
56	Standoff detection of explosives: critical comparison for ensuing options on Raman spectroscopy-LIBS sensor fusion. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 400, 3353-65	4.4	60
55	Separation of motor oils, oily wastes and hydrocarbons from contaminated water by sorption on chrome shavings. <i>Journal of Hazardous Materials</i> , <b>2007</b> , 145, 148-53	12.8	53
54	The use of near-infrared spectrometry in the olive oil industry. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2010</b> , 50, 567-82	11.5	52
53	Chemometric determination of arsenic and lead in untreated powdered red paprika by diffuse reflectance near-infrared spectroscopy. <i>Analytica Chimica Acta</i> , <b>2008</b> , 613, 196-206	6.6	47
52	Preliminary studies about thermal degradation of edible oils through attenuated total reflectance mid-infrared spectrometry. <i>Food Chemistry</i> , <b>2009</b> , 114, 1529-1536	8.5	44
51	Nondestructive direct determination of heroin in seized illicit street drugs by diffuse reflectance near-infrared spectroscopy. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 7257-65	7.8	42
50	Evaluating the use of standoff LIBS in architectural heritage: surveying the Cathedral of Mlaga. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2013</b> , 28, 810	3.7	41
49	Near-infrared diffuse reflectance spectroscopy and neural networks for measuring nutritional parameters in chocolate samples. <i>Analytica Chimica Acta</i> , <b>2007</b> , 584, 215-22	6.6	41
48	Direct determination of the nutrient profile in plant materials by femtosecond laser-induced breakdown spectroscopy. <i>Analytica Chimica Acta</i> , <b>2015</b> , 876, 26-38	6.6	40
47	Determination of the energetic value of fruit and milk-based beverages through partial-least-squares attenuated total reflectance-Fourier transform infrared spectrometry. <i>Analytica Chimica Acta</i> , <b>2005</b> , 538, 181-193	6.6	40
46	Sensing signatures mediated by chemical structure of molecular solids in laser-induced plasmas. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 2794-801	7.8	39

45	Advanced recognition of explosives in traces on polymer surfaces using LIBS and supervised learning classifiers. <i>Analytica Chimica Acta</i> , <b>2014</b> , 806, 107-16	6.6	38
44	Dual-Spectroscopy Platform for the Surveillance of Mars Mineralogy Using a Decisions Fusion Architecture on Simultaneous LIBS-Raman Data. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 2079-2087	7.8	35
43	New chemometrics in laser-induced breakdown spectroscopy for recognizing explosive residues. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2012</b> , 27, 2111	3.7	35
42	Evaluation of the application of attenuated total reflectance-Fourier transform infrared spectrometry (ATR-FTIR) and chemometrics to the determination of nutritional parameters of yogurt samples. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 385, 708-15	4.4	35
41	Molecular signatures in femtosecond laser-induced organic plasmas: comparison with nanosecond laser ablation. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 2398-408	3.6	34
40	Recognition of explosives fingerprints on objects for courier services using machine learning methods and laser-induced breakdown spectroscopy. <i>Talanta</i> , <b>2013</b> , 110, 108-17	6.2	32
39	Adaptive approach for variable noise suppression on laser-induced breakdown spectroscopy responses using stationary wavelet transform. <i>Analytica Chimica Acta</i> , <b>2012</b> , 754, 8-19	6.6	31
38	Location and detection of explosive-contaminated human fingerprints on distant targets using standoff laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2013</b> , 85, 71-77	3.1	31
37	Laser-Induced Breakdown Spectroscopy (LIBS) of Organic Compounds: A Review. <i>Applied Spectroscopy</i> , <b>2019</b> , 73, 963-1011	3.1	30
36	Exploring the formation routes of diatomic hydrogenated radicals using femtosecond laser-induced breakdown spectroscopy of deuterated molecular solids. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2015</b> , 30, 2343-2352	3.7	29
35	Fundamentals of stand-off Raman scattering spectroscopy for explosive fingerprinting. <i>Journal of Raman Spectroscopy</i> , <b>2013</b> , 44, 121-130	2.3	29
34	Range-adaptive standoff recognition of explosive fingerprints on solid surfaces using a supervised learning method and laser-induced breakdown spectroscopy. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 5045-52	7.8	28
33	Testing of the region of Murcia soils by near infrared diffuse reflectance spectroscopy and chemometrics. <i>Talanta</i> , <b>2009</b> , 78, 388-98	6.2	28
32	Validated, non-destructive and environmentally friendly determination of cocaine in euro bank notes. <i>Journal of Chromatography A</i> , <b>2005</b> , 1065, 321-5	4.5	27
31	New cut-off criterion for uninformative variable elimination in multivariate calibration of near-infrared spectra for the determination of heroin in illicit street drugs. <i>Analytica Chimica Acta</i> , <b>2008</b> , 630, 150-60	6.6	26
30	Partial least squares X-ray fluorescence determination of trace elements in sediments from the estuary of Nerbioi-Ibaizabal River. <i>Talanta</i> , <b>2010</b> , 82, 1254-60	6.2	24
29	Characterization of estuarine sediments by near infrared diffuse reflectance spectroscopy. <i>Analytica Chimica Acta</i> , <b>2008</b> , 624, 113-27	6.6	24
28	Unveiling the identity of distant targets through advanced Raman-laser-induced breakdown spectroscopy data fusion strategies. <i>Talanta</i> , <b>2015</b> , 134, 627-639	6.2	22

27	Evaluation of laser-induced breakdown spectroscopy analysis potential for addressing radiological threats from a distance. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2014</b> , 96, 12-20	3.1	22
26	Direct determination of Mancozeb by photoacoustic spectrometry. <i>Analytica Chimica Acta</i> , <b>2006</b> , 567, 255-261	6.6	22
25	Fourier transform infrared spectrometric strategies for the determination of Buprofezin in pesticide formulations. <i>Analytica Chimica Acta</i> , <b>2002</b> , 468, 81-90	6.6	21
24	Near infrared determination of Diuron in pesticide formulations. <i>Analytica Chimica Acta</i> , <b>2005</b> , 543, 124-129	6.6	20
23	Determination of vinegar acidity by attenuated total reflectance infrared measurements through the use of second-order absorbance-pH matrices and parallel factor analysis. <i>Talanta</i> , <b>2008</b> , 74, 632-41	6.2	18
22	Quality control Fourier transform infrared determination of diazepam in pharmaceuticals. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2007</b> , 43, 1277-82	3.5	17
21	Estuarine sediment quality assessment by Fourier-transform infrared spectroscopy. <i>Vibrational Spectroscopy</i> , <b>2010</b> , 53, 204-213	2.1	16
20	Quality control of Metamitron in agrochemicals using Fourier transform infrared spectroscopy in the middle and near range. <i>Analytica Chimica Acta</i> , <b>2006</b> , 565, 255-260	6.6	16
19	Comparison of two vibrational procedures for the direct determination of mancozeb in agrochemicals. <i>Talanta</i> , <b>2007</b> , 72, 72-9	6.2	15
18	Univariate near infrared methods for determination of pesticides in agrochemicals. <i>Analytica Chimica Acta</i> , <b>2006</b> , 579, 17-24	6.6	14
17	New insights into the potential factors affecting the emission spectra variability in standoff LIBS. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2013</b> , 28, 1750	3.7	12
16	Standoff monitoring of aqueous aerosols using nanosecond laser-induced breakdown spectroscopy: droplet size and matrix effects. <i>Applied Optics</i> , <b>2017</b> , 56, 3773-3782	0.2	11
15	Screening of humic and fulvic acids in estuarine sediments by near-infrared spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2008</b> , 392, 541-9	4.4	11
14	Automated Fourier Transform near Infrared Determination of Buprofezin in Pesticide Formulations. <i>Journal of Near Infrared Spectroscopy</i> , <b>2005</b> , 13, 161-168	1.5	11
13	Potential of laser-induced breakdown spectroscopy for discrimination of nano-sized carbon materials. Insights on the optical characterization of graphene. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2014</b> , 97, 105-112	3.1	10
12	First-Derivative Fourier-Transform Infrared Determination of Oxadiazon in Commercial Herbicide Formulations. <i>Spectroscopy Letters</i> , <b>2008</b> , 41, 1-8	1.1	8
11	Partial least-squares near-infrared determination of hydrocarbons removed from polluted waters by using tanned solid wastes. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 385, 766-70	4.4	6
10	Comparison of two partial least squares infrared spectrometric methods for the quality control of pediculosis lotions. <i>Analytica Chimica Acta</i> , <b>2007</b> , 582, 174-80	6.6	5

9	HPLC determination of oxadiazon in commercial pesticide formulations. <i>Journal of the Brazilian Chemical Society</i> , <b>2008</b> , 19, 1394-1398	1.5	4
8	Simultaneous imaging and emission spectroscopy for the laser-based remote probing of polydisperse saline aerosols. <i>Journal of Aerosol Science</i> , <b>2018</b> , 123, 52-62	4.3	3
7	A spectral sieve-based strategy for sensing inorganic and organic traces on solid surfaces using laser-induced breakdown spectroscopy. <i>Analytical Methods</i> , <b>2015</b> , 7, 7280-7289	3.2	3
6	LIBS Detection of Explosives in Traces. <i>Springer Series in Optical Sciences</i> , <b>2014</b> , 349-376	0.5	3
5	Determination of Olive Oil Parameters by Near Infrared Spectrometry <b>2010</b> , 533-544		2
4	LIBS-Acoustic Mid-Level Fusion Scheme for Mineral Differentiation under Terrestrial and Martian Atmospheric Conditions.. <i>Analytical Chemistry</i> , <b>2022</b> ,	7.8	2
3	Refractory residues classification strategy using emission spectroscopy of laser-induced plasmas in tandem with a decision tree-based algorithm.. <i>Analytica Chimica Acta</i> , <b>2022</b> , 1191, 339294	6.6	2
2	Remotely Exploring Deeper-Into-Matter by Non-Contact Detection of Audible Transients Excited by Laser Radiation. <i>Sensors</i> , <b>2017</b> , 17,	3.8	1
1	Reply to the comments on Validated, non-destructive and environmentally friendly determination of cocaine in euro bank notes by R. Sleeman, J.F. Carter, K.A. Ebejer. <i>Journal of Chromatography A</i> , <b>2006</b> , 1108, 287-288	4.5	0