

Javier Moros

List of Publications by Year in descending order

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62
papers

2,684
citations

147801

31
h-index

189892

50
g-index

63
all docs

63
docs citations

63
times ranked

2463
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser-Induced Breakdown Spectroscopy. <i>Analytical Chemistry</i> , 2013, 85, 640-669.	6.5	429
2	Vibrational spectroscopy provides a green tool for multi-component analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 578-591.	11.4	221
3	Simultaneous Raman Spectroscopy and Laser-Induced Breakdown Spectroscopy for Instant Standoff Analysis of Explosives Using a Mobile Integrated Sensor Platform. <i>Analytical Chemistry</i> , 2010, 82, 1389-1400.	6.5	126
4	New Raman and Laser-Induced Breakdown Spectroscopy Identity of Explosives Using Parametric Data Fusion on an Integrated Sensing Platform. <i>Analytical Chemistry</i> , 2011, 83, 6275-6285.	6.5	122
5	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 & Technology</i> , 2009, 43, 9314-9320.	10.0	80
6	Evaluation of nutritional parameters in infant formulas and powdered milk by Raman spectroscopy. <i>Analytica Chimica Acta</i> , 2007, 593, 30-38.	5.4	73
7	Laser-Induced Breakdown Spectroscopy (LIBS) of Organic Compounds: A Review. <i>Applied Spectroscopy</i> , 2019, 73, 963-1011.	2.2	68
8	Standoff detection of explosives: critical comparison for ensuing options on Raman spectroscopy and LIBS sensor fusion. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 3353-3365.	3.7	67
9	The Use of Near-Infrared Spectrometry in the Olive Oil Industry. <i>Critical Reviews in Food Science and Nutrition</i> , 2010, 50, 567-582.	10.3	63
10	Separation of motor oils, oily wastes and hydrocarbons from contaminated water by sorption on chrome shavings. <i>Journal of Hazardous Materials</i> , 2007, 145, 148-153.	12.4	59
11	Preliminary studies about thermal degradation of edible oils through attenuated total reflectance mid-infrared spectrometry. <i>Food Chemistry</i> , 2009, 114, 1529-1536.	8.2	56
12	Chemometric determination of arsenic and lead in untreated powdered red paprika by diffuse reflectance near-infrared spectroscopy. <i>Analytica Chimica Acta</i> , 2008, 613, 196-206.	5.4	54
13	Nondestructive Direct Determination of Heroin in Seized Illicit Street Drugs by Diffuse Reflectance near-Infrared Spectroscopy. <i>Analytical Chemistry</i> , 2008, 80, 7257-7265.	6.5	51
14	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> , 2005, 538, 181-193.	5.4	49
15	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> , 2006, 385, 708-715.	3.7	49
16	Evaluating the use of standoff LIBS in architectural heritage: surveying the Cathedral of Málaga. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 810.	3.0	49
17	Dual-Spectroscopy Platform for the Surveillance of Mars Mineralogy Using a Decisions Fusion Architecture on Simultaneous LIBS-Raman Data. <i>Analytical Chemistry</i> , 2018, 90, 2079-2087.	6.5	49
18	Near-infrared diffuse reflectance spectroscopy and neural networks for measuring nutritional parameters in chocolate samples. <i>Analytica Chimica Acta</i> , 2007, 584, 215-222.	5.4	48

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19	Sensing Signatures Mediated by Chemical Structure of Molecular Solids in Laser-Induced Plasmas. <i>Analytical Chemistry</i> , 2015, 87, 2794-2801.	6.5	47
20	Direct determination of the nutrient profile in plant materials by femtosecond laser-induced breakdown spectroscopy. <i>Analytica Chimica Acta</i> , 2015, 876, 26-38.	5.4	46
21	Advanced recognition of explosives in traces on polymer surfaces using LIBS and supervised learning classifiers. <i>Analytica Chimica Acta</i> , 2014, 806, 107-116.	5.4	44
22	Molecular signatures in femtosecond laser-induced organic plasmas: comparison with nanosecond laser ablation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 2398-2408.	2.8	43
23	Adaptive approach for variable noise suppression on laser-induced breakdown spectroscopy responses using stationary wavelet transform. <i>Analytica Chimica Acta</i> , 2012, 754, 8-19.	5.4	42
24	Testing of the Region of Murcia soils by near infrared diffuse reflectance spectroscopy and chemometrics. <i>Talanta</i> , 2009, 78, 388-398.	5.5	39
25	Recognition of explosives fingerprints on objects for courier services using machine learning methods and laser-induced breakdown spectroscopy. <i>Talanta</i> , 2013, 110, 108-117.	5.5	39
26	New chemometrics in laser-induced breakdown spectroscopy for recognizing explosive residues. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 2111.	3.0	38
27	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> , 2013, 85, 71-77.	2.9	37
28	Range-Adaptive Standoff Recognition of Explosive Fingerprints on Solid Surfaces using a Supervised Learning Method and Laser-Induced Breakdown Spectroscopy. <i>Analytical Chemistry</i> , 2014, 86, 5045-5052.	6.5	35
29	Unveiling the identity of distant targets through advanced Raman-laser-induced breakdown spectroscopy data fusion strategies. <i>Talanta</i> , 2015, 134, 627-639.	5.5	33
30	Direct determination of Mancozeb by photoacoustic spectrometry. <i>Analytica Chimica Acta</i> , 2006, 567, 255-261.	5.4	31
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> , 2008, 630, 150-160.	5.4	31
32	Fundamentals of stand-off Raman scattering spectroscopy for explosive fingerprinting. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 121-130.	2.5	31
33	Evaluation of laser-induced breakdown spectroscopy analysis potential for addressing radiological threats from a distance. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 96, 12-20.	2.9	31
34	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> , 2015, 30, 2343-2352.	3.0	31
35	Validated, non-destructive and environmentally friendly determination of cocaine in euro bank notes. <i>Journal of Chromatography A</i> , 2005, 1065, 321-325.	3.7	30
36	Fourier transform infrared spectrometric strategies for the determination of Buprofezin in pesticide formulations. <i>Analytica Chimica Acta</i> , 2002, 468, 81-90.	5.4	29

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37	Characterization of estuarine sediments by near infrared diffuse reflectance spectroscopy. <i>Analytica Chimica Acta</i> , 2008, 624, 113-127.	5.4	29
38	Partial least squares X-ray fluorescence determination of trace elements in sediments from the estuary of Nerbioi-Ibaizabal River. <i>Talanta</i> , 2010, 82, 1254-1260.	5.5	27
39	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> , 2008, 74, 632-641.	5.5	25
40	Near infrared determination of Diuron in pesticide formulations. <i>Analytica Chimica Acta</i> , 2005, 543, 124-129.	5.4	23
41	Quality control Fourier transform infrared determination of diazepam in pharmaceuticals. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007, 43, 1277-1282.	2.8	19
42	Estuarine sediment quality assessment by Fourier-transform infrared spectroscopy. <i>Vibrational Spectroscopy</i> , 2010, 53, 204-213.	2.2	18
43	Quality control of Metamitron in agrochemicals using Fourier transform infrared spectroscopy in the middle and near range. <i>Analytica Chimica Acta</i> , 2006, 565, 255-260.	5.4	17
44	Comparison of two vibrational procedures for the direct determination of mancozeb in agrochemicals. <i>Talanta</i> , 2007, 72, 72-79.	5.5	16
45	Univariate near infrared methods for determination of pesticides in agrochemicals. <i>Analytica Chimica Acta</i> , 2006, 579, 17-24.	5.4	15
46	New insights into the potential factors affecting the emission spectra variability in standoff LIBS. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 1750.	3.0	15
47	Standoff monitoring of aqueous aerosols using nanosecond laser-induced breakdown spectroscopy: droplet size and matrix effects. <i>Applied Optics</i> , 2017, 56, 3773.	2.1	15
48	LIBS-Acoustic Mid-Level Fusion Scheme for Mineral Differentiation under Terrestrial and Martian Atmospheric Conditions. <i>Analytical Chemistry</i> , 2022, 94, 1840-1849.	6.5	13
49	Automated Fourier Transform near Infrared Determination of Buprofezin in Pesticide Formulations. <i>Journal of Near Infrared Spectroscopy</i> , 2005, 13, 161-168.	1.5	12
50	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> , 2014, 97, 105-112.	2.9	12
51	Screening of humic and fulvic acids in estuarine sediments by near-infrared spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 392, 541-549.	3.7	11
52	First-Order Derivative Fourier Transform Infrared Determination of Oxadiazon in Commercial Herbicide Formulations. <i>Spectroscopy Letters</i> , 2008, 41, 1-8.	1.0	8
53	Partial least-squares near-infrared determination of hydrocarbons removed from polluted waters by using tanned solid wastes. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 766-770.	3.7	7
54	HPLC determination of oxadiazon in commercial pesticide formulations. <i>Journal of the Brazilian Chemical Society</i> , 2008, 19, 1394-1398.	0.6	6

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55	Comparison of two partial least squares infrared spectrometric methods for the quality control of pediculosis lotions. <i>Analytica Chimica Acta</i> , 2007, 582, 174-180.	5.4	5
56	A spectral sieve-based strategy for sensing inorganic and organic traces on solid surfaces using laser-induced breakdown spectroscopy. <i>Analytical Methods</i> , 2015, 7, 7280-7289.	2.7	5
57	Refractory residues classification strategy using emission spectroscopy of laser-induced plasmas in tandem with a decision tree-based algorithm. <i>Analytica Chimica Acta</i> , 2022, 1191, 339294.	5.4	4
58	Determination of Olive Oil Parameters by Near Infrared Spectrometry. , 2010, , 533-544.		3
59	Simultaneous imaging and emission spectroscopy for the laser-based remote probing of polydisperse saline aerosols. <i>Journal of Aerosol Science</i> , 2018, 123, 52-62.	3.8	3
60	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> , 2006, 1108, 287-288.	3.7	1
61	Remotely Exploring Deeper-Into-Matter by Non-Contact Detection of Audible Transients Excited by Laser Radiation. <i>Sensors</i> , 2017, 17, 2960.	3.8	1
62	Pressure Effects on Simultaneous Optical and Acoustics Data from Laser-Induced Plasmas in Air: Implications to the Differentiation of Geological Materials. <i>Applied Spectroscopy</i> , 2022, 76, 946-958.	2.2	1