Miguel De La Guardia

List of Publications by Citations

64 papers	3,898 citations	31 h-index	62 g-index
67 ext. papers	4,389 ext. citations	10.1 avg, IF	5.89 L-index

#	Paper	IF	Citations
64	Modern trends in solid phase extraction: New sorbent media. *TrAC - Trends in Analytical Chemistry*, **2016**, 77, 23-43	14.6	376
63	Miniaturized solid-phase extraction techniques. *TrAC - Trends in Analytical Chemistry*, **2015**, 73, 19-38	14.6	295
62	Green aspects, developments and perspectives of liquid phase microextraction techniques. *Talanta*, **2014**, 119, 34-45	6.2	251
61	Recent developments and future trends in solid phase microextraction techniques towards green analytical chemistry. *Journal of Chromatography A*, **2013**, 1321, 1-13	4.5	202
60	The role of green extraction techniques in Green Analytical Chemistry. *TrAC - Trends in Analytical Chemistry*, **2015**, 71, 2-8	14.6	202
59	Vibrational spectroscopy provides a green tool for multi-component analysis. *TrAC - Trends in Analytical Chemistry*, **2010**, 29, 578-591	14.6	178
58	Carbon based nanomaterials for tissue engineering of bone: Building new bone on small black scaffolds: A review. *Journal of Advanced Research*, **2019**, 18, 185-201	13	173
57	Nanomaterial-based biosensors for detection of pathogenic virus. *TrAC - Trends in Analytical Chemistry*, **2017**, 97, 445-457	14.6	148
56	Anti-bacterial activity of graphene oxide as a new weapon nanomaterial to combat multidrug-resistance bacteria. *Materials Science and Engineering C*, **2017**, 74, 568-581	8.3	145
55	Iron and iron-oxide magnetic nanoparticles as signal-amplification elements in electrochemical biosensing. *TrAC - Trends in Analytical Chemistry*, **2015**, 72, 1-9	14.6	134
54	Metal speciation in solid matrices. *Talanta*, **1995**, 42, 1007-30	6.2	120
53	Electrochemical biosensors for glucose based on metal nanoparticles. *TrAC - Trends in Analytical Chemistry*, **2013**, 42, 216-227	14.6	115
52	Mesoporous silica-based materials for use in biosensors. *TrAC - Trends in Analytical Chemistry*, **2012**, 33, 117-129	14.6	110
51	Nanomaterial-based cocaine aptasensors. *Biosensors and Bioelectronics*, **2015**, 68, 95-106	11.8	93
50	Early stage screening of breast cancer using electrochemical biomarker detection. *TrAC - Trends in Analytical Chemistry*, **2017**, 91, 67-76	14.6	91
49	Applications of diatoms and silica nanotechnology in biosensing, drug and gene delivery, and formation of complex metal nanostructures. *TrAC - Trends in Analytical Chemistry*, **2011**, 30, 1538-1548	14.6	91
48	Optical and electrochemical DNA nanobiosensors. *TrAC - Trends in Analytical Chemistry*, **2011**, 30, 459-472	14.6	79

47	Application of machine-vision techniques to fish-quality assessment. *TrAC - Trends in Analytical Chemistry*, **2012**, 40, 168-179	14.6	69
46	Nano-materials for use in sensing of salmonella infections: Recent advances. *Biosensors and Bioelectronics*, **2017**, 87, 1050-1064	11.8	66
45	Recent advances in Nanomaterial-mediated Bio and immune sensors for detection of aflatoxin in food products. *TrAC - Trends in Analytical Chemistry*, **2017**, 87, 112-128	14.6	65
44	Mesoporous silica-based materials for use in electrochemical enzyme nanobiosensors. *TrAC - Trends in Analytical Chemistry*, **2012**, 40, 106-118	14.6	63
43	Dendrimer-encapsulated and cored metal nanoparticles for electrochemical nanobiosensing. *TrAC - Trends in Analytical Chemistry*, **2014**, 53, 137-149	14.6	62
42	Mesoporous silica materials for use in electrochemical immunosensing. *TrAC - Trends in Analytical Chemistry*, **2013**, 45, 93-106	14.6	62
41	Green strategies for decontamination of analytical wastes. *TrAC - Trends in Analytical Chemistry*, **2010**, 29, 592-601	14.6	50
40	Electrochemical biosensing using hydrogel nanoparticles. *TrAC - Trends in Analytical Chemistry*, **2014**, 62, 11-19	14.6	47
39	Nanomaterial-based electrochemical immunosensors as advanced diagnostic tools. *Analytical Methods*, **2014**, 6, 3891-3900	3.2	44
38	Ensuring food safety using aptamer based assays: Electroanalytical approach. *TrAC - Trends in Analytical Chemistry*, **2017**, 94, 77-94	14.6	43
37	Metal speciation in biological fluids a review. *Mikrochimica Acta*, **1996**, 122, 209-246	5.8	38
36	Current advancement in immunosensing of p53 tumor suppressor protein based on nanomaterials: Analytical approach. *TrAC - Trends in Analytical Chemistry*, **2017**, 89, 13-20	14.6	37
35	Non-invasive diagnosis of oral cancer: The role of electro-analytical methods and nanomaterials. *TrAC - Trends in Analytical Chemistry*, **2017**, 91, 125-137	14.6	36
34	Magnetic molecularly imprinted polymers for the selective determination of cocaine by ion mobility spectrometry. *Journal of Chromatography A*, **2018**, 1545, 22-31	4.5	30
33	Early stage diagnosis of programmed cell death (apoptosis) using electroanalysis: Nanomaterial and methods overview. *TrAC - Trends in Analytical Chemistry*, **2017**, 93, 199-211	14.6	30
32	Non-invasive analysis of solid samples. *TrAC - Trends in Analytical Chemistry*, **2013**, 43, 161-173	14.6	29
31	Direct determination of polymerised triacylglycerides in deep-frying vegetable oil by near infrared spectroscopy using Partial Least Squares regression. *Food Chemistry*, **2012**, 131, 353-359	8.5	25
30	Application of additional factors supporting the microextraction process. *TrAC - Trends in Analytical Chemistry*, **2017**, 97, 104-119	14.6	21

29	Feature selection strategies for quality screening of diesel samples by infrared spectrometry and linear discriminant analysis. *Talanta*, **2013**, 104, 128-34	6.2	20
28	Cutting-edge progress and challenges in stimuli responsive hydrogel microenvironment for success in tissue engineering today. *Journal of Controlled Release*, **2020**, 328, 514-531	11.7	20
27	A green method for the determination of cocaine in illicit samples. *Forensic Science International*, **2014**, 237, 70-7	2.6	19
26	Biosensing of microcystins in water samples; recent advances. *Biosensors and Bioelectronics*, **2020**, 165, 112403	11.8	16
25	The social responsibility of environmental analysis. *Trends in Environmental Analytical Chemistry*, **2014**, 3-4, 7-13	12	16
24	Dispersive magnetic immunoaffinity extraction. Anatoxin-a determination. *Journal of Chromatography A*, **2017**, 1529, 57-62	4.5	15
23	Development of immunosorbents for the analysis of forchlorfenuron in fruit juices by ion mobility spectrometry. *Analytical and Bioanalytical Chemistry*, **2018**, 410, 5961-5967	4.4	13
22	Novel approach for the determination of azithromycin in pharmaceutical formulations by Fourier transform infrared spectroscopy in film-through transmission mode. *Microchemical Journal*, **2013**, 110, 301-307	4.8	13
21	Determination of sugars in depilatory formulations: a green analytical method employing infrared detection and partial least squares regression. *Talanta*, **2011**, 85, 1721-9	6.2	12
20	Nanotechnology, and scaffold implantation for the effective repair of injured organs: An overview on hard tissue engineering. *Journal of Controlled Release*, **2021**, 333, 391-417	11.7	10
19	An infrared spectroscopic tool for process monitoring: sugar contents during the production of a depilatory formulation. *Talanta*, **2012**, 99, 660-7	6.2	7
18	The Rise of Metal□Organic Frameworks in Analytical Chemistry **2019**, 463-502		6
17	Modern strategies for the rapid determination of metals in sewage sludges. *TrAC - Trends in Analytical Chemistry*, **1996**, 15, 311-318	14.6	6
16	Smart materials for sample preparation in bioanalysis: A green overview. *Sustainable Chemistry and Pharmacy*, **2021**, 21, 100411	3.9	6
15	Vibrational Spectroscopy. *Comprehensive Analytical Chemistry*, **2013**, 60, 101-122	1.9	5
14	Smart Materials in Solid Phase Microextraction (SPME) **2019**, 581-620		4
13	The Concept of Green Analytical Chemistry **2012**, 1-16		4
12	MIPs and Aptamers as Artificial Receptors in Advanced Separation Techniques **2019**, 825-857		3

List of Publications

11	Direct determination of major components in human diets and baby foods. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 1961-72	4.4	2
10	Quantitative Analysis, Infrared Update based on the original article by Frederic Cadet, Encyclopedia of Analytical Chemistry, © 2000, John Wiley & Sons, Ltd. **2012**,		2
9	Smart Materials **2019**, 1-21		1
8	Future Perspectives on the Use of Smart Materials **2019**, 931-944		1
7	Green Analytical Chemistry **2018**,		1
6	Green Analytical Chemistry **2021**, 483-493		1
5	Smart Sorption Materials in Green Analytical Chemistry. *Green Chemistry and Sustainable Technology*, **2019**, 167-202	1.1	0
4	Nanoconfined Ionic Liquids **2019**, 23-72		
3	Smart Materials for Solid-Phase Extraction Applications **2019**, 531-580		
2	X-ray **2015**, 285-300		
1	Green Analytical Atomic Spectrometry199-219		