

Miguel De La Guardia

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.

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	Nanotechnology, and scaffold implantation for the effective repair of injured organs: An overview on hard tissue engineering. <i>Journal of Controlled Release</i> , 2021 , 333, 391-417	11.7	10
63	Smart materials for sample preparation in bioanalysis: A green overview. <i>Sustainable Chemistry and Pharmacy</i> , 2021 , 21, 100411	3.9	6
62	Green Analytical Chemistry 2021 , 483-493		1
61	Biosensing of microcystins in water samples; recent advances. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112403	11.8	16
60	Cutting-edge progress and challenges in stimuli responsive hydrogel microenvironment for success in tissue engineering today. <i>Journal of Controlled Release</i> , 2020 , 328, 514-531	11.7	20
59	Smart Materials in Solid Phase Microextraction (SPME) 2019 , 581-620		4
58	Smart Materials 2019 , 1-21		1
57	The Rise of Metal-Organic Frameworks in Analytical Chemistry 2019 , 463-502		6
56	Nanoconfined Ionic Liquids 2019 , 23-72		
55	Future Perspectives on the Use of Smart Materials 2019 , 931-944		1
54	Carbon based nanomaterials for tissue engineering of bone: Building new bone on small black scaffolds: A review. <i>Journal of Advanced Research</i> , 2019 , 18, 185-201	13	173
53	MIPs and Aptamers as Artificial Receptors in Advanced Separation Techniques 2019 , 825-857		3
52	Smart Materials for Solid-Phase Extraction Applications 2019 , 531-580		
51	Smart Sorption Materials in Green Analytical Chemistry. <i>Green Chemistry and Sustainable Technology</i> , 2019 , 167-202	1.1	0
50	Magnetic molecularly imprinted polymers for the selective determination of cocaine by ion mobility spectrometry. <i>Journal of Chromatography A</i> , 2018 , 1545, 22-31	4.5	30
49	Green Analytical Chemistry 2018 ,		1
48	Development of immunosorbents for the analysis of forchlorfenuron in fruit juices by ion mobility spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 5961-5967	4.4	13

47	Current advancement in immunosensing of p53 tumor suppressor protein based on nanomaterials: Analytical approach. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 89, 13-20	14.6	37
46	Early stage screening of breast cancer using electrochemical biomarker detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 91, 67-76	14.6	91
45	Non-invasive diagnosis of oral cancer: The role of electro-analytical methods and nanomaterials. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 91, 125-137	14.6	36
44	Anti-bacterial activity of graphene oxide as a new weapon nanomaterial to combat multidrug-resistance bacteria. <i>Materials Science and Engineering C</i> , 2017 , 74, 568-581	8.3	145
43	Recent advances in Nanomaterial-mediated Bio and immune sensors for detection of aflatoxin in food products. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 87, 112-128	14.6	65
42	Nanomaterial-based biosensors for detection of pathogenic virus. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 97, 445-457	14.6	148
41	Application of additional factors supporting the microextraction process. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 97, 104-119	14.6	21
40	Dispersive magnetic immunoaffinity extraction. Anatoxin-a determination. <i>Journal of Chromatography A</i> , 2017 , 1529, 57-62	4.5	15
39	Ensuring food safety using aptamer based assays: Electroanalytical approach. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 94, 77-94	14.6	43
38	Early stage diagnosis of programmed cell death (apoptosis) using electroanalysis: Nanomaterial and methods overview. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 93, 199-211	14.6	30
37	Nano-materials for use in sensing of salmonella infections: Recent advances. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 1050-1064	11.8	66
36	Modern trends in solid phase extraction: New sorbent media. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 77, 23-43	14.6	376
35	Direct determination of major components in human diets and baby foods. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 1961-72	4.4	2
34	Iron and iron-oxide magnetic nanoparticles as signal-amplification elements in electrochemical biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2015 , 72, 1-9	14.6	134
33	Miniaturized solid-phase extraction techniques. <i>TrAC - Trends in Analytical Chemistry</i> , 2015 , 73, 19-38	14.6	295
32	X-ray 2015 , 285-300		
31	The role of green extraction techniques in Green Analytical Chemistry. <i>TrAC - Trends in Analytical Chemistry</i> , 2015 , 71, 2-8	14.6	202
30	Nanomaterial-based cocaine aptasensors. <i>Biosensors and Bioelectronics</i> , 2015 , 68, 95-106	11.8	93

29	A green method for the determination of cocaine in illicit samples. <i>Forensic Science International</i> , 2014 , 237, 70-7	2.6	19
28	Green aspects, developments and perspectives of liquid phase microextraction techniques. <i>Talanta</i> , 2014 , 119, 34-45	6.2	251
27	Nanomaterial-based electrochemical immunosensors as advanced diagnostic tools. <i>Analytical Methods</i> , 2014 , 6, 3891-3900	3.2	44
26	Electrochemical biosensing using hydrogel nanoparticles. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 62, 11-19	14.6	47
25	Dendrimer-encapsulated and cored metal nanoparticles for electrochemical nanobiosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 53, 137-149	14.6	62
24	The social responsibility of environmental analysis. <i>Trends in Environmental Analytical Chemistry</i> , 2014 , 3-4, 7-13	12	16
23	Mesoporous silica materials for use in electrochemical immunosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2013 , 45, 93-106	14.6	62
22	Feature selection strategies for quality screening of diesel samples by infrared spectrometry and linear discriminant analysis. <i>Talanta</i> , 2013 , 104, 128-34	6.2	20
21	Recent developments and future trends in solid phase microextraction techniques towards green analytical chemistry. <i>Journal of Chromatography A</i> , 2013 , 1321, 1-13	4.5	202
20	Electrochemical biosensors for glucose based on metal nanoparticles. <i>TrAC - Trends in Analytical Chemistry</i> , 2013 , 42, 216-227	14.6	115
19	Non-invasive analysis of solid samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2013 , 43, 161-173	14.6	29
18	Vibrational Spectroscopy. <i>Comprehensive Analytical Chemistry</i> , 2013 , 60, 101-122	1.9	5
17	Novel approach for the determination of azithromycin in pharmaceutical formulations by Fourier transform infrared spectroscopy in film-through transmission mode. <i>Microchemical Journal</i> , 2013 , 110, 301-307	4.8	13
16	Mesoporous silica-based materials for use in biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2012 , 33, 117-129	14.6	110
15	Application of machine-vision techniques to fish-quality assessment. <i>TrAC - Trends in Analytical Chemistry</i> , 2012 , 40, 168-179	14.6	69
14	An infrared spectroscopic tool for process monitoring: sugar contents during the production of a depilatory formulation. <i>Talanta</i> , 2012 , 99, 660-7	6.2	7
13	Mesoporous silica-based materials for use in electrochemical enzyme nanobiosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2012 , 40, 106-118	14.6	63
12	Quantitative Analysis, Infrared Update based on the original article by Frederic Cadet, <i>Encyclopedia of Analytical Chemistry</i> , □ 2000, John Wiley & Sons, Ltd. 2012 ,		2

11	Direct determination of polymerised triacylglycerides in deep-frying vegetable oil by near infrared spectroscopy using Partial Least Squares regression. <i>Food Chemistry</i> , 2012 , 131, 353-359	8.5	25
10	The Concept of Green Analytical Chemistry 2012 , 1-16		4
9	Determination of sugars in depilatory formulations: a green analytical method employing infrared detection and partial least squares regression. <i>Talanta</i> , 2011 , 85, 1721-9	6.2	12
8	Applications of diatoms and silica nanotechnology in biosensing, drug and gene delivery, and formation of complex metal nanostructures. <i>TrAC - Trends in Analytical Chemistry</i> , 2011 , 30, 1538-1548	14.6	91
7	Optical and electrochemical DNA nanobiosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2011 , 30, 459-472	14.6	79
6	Vibrational spectroscopy provides a green tool for multi-component analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2010 , 29, 578-591	14.6	178
5	Green strategies for decontamination of analytical wastes. <i>TrAC - Trends in Analytical Chemistry</i> , 2010 , 29, 592-601	14.6	50
4	Metal speciation in biological fluids – a review. <i>Mikrochimica Acta</i> , 1996 , 122, 209-246	5.8	38
3	Modern strategies for the rapid determination of metals in sewage sludges. <i>TrAC - Trends in Analytical Chemistry</i> , 1996 , 15, 311-318	14.6	6
2	Metal speciation in solid matrices. <i>Talanta</i> , 1995 , 42, 1007-30	6.2	120
1	Green Analytical Atomic Spectrometry 199-219		