

Eduardo Pinilla-Gil

List of Publications by Year in descending order

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65
papers

1,767
citations

361413

20
h-index

276875

41
g-index

65
all docs

65
docs citations

65
times ranked

2437
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial and temporal variations in airborne particulate matter (PM10 and PM2.5) across Spain 1999–2005. <i>Atmospheric Environment</i> , 2008, 42, 3964-3979.	4.1	287
2	Antimony distribution and mobility in topsoils and plants (<i>Cytisus striatus</i> , <i>Cistus ladanifer</i> and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 2007, 145, 15-21.	7.5	146
3	Modification of carbon screen-printed electrodes by adsorption of chemically synthesized Bi nanoparticles for the voltammetric stripping detection of Zn(II), Cd(II) and Pb(II). <i>Talanta</i> , 2009, 80, 631-635.	5.5	135
4	Determination of mercury in ambient water samples by anodic stripping voltammetry on screen-printed gold electrodes. <i>Analytica Chimica Acta</i> , 2011, 689, 60-64.	5.4	121
5	Gold nanoparticles-modified screen-printed carbon electrodes for anodic stripping voltammetric determination of mercury in ambient water samples. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 669-674.	7.8	74
6	Potentiometric stripping determination of mercury(II), selenium(IV), copper(II) and lead(II) at a gold film electrode in water samples. <i>Analytica Chimica Acta</i> , 1994, 293, 55-65.	5.4	73
7	Long-term assessment of ecological risk from deposition of elemental pollutants in the vicinity of the industrial area of Puchuncav-Ventanas, central Chile. <i>Science of the Total Environment</i> , 2015, 527-528, 335-343.	8.0	63
8	Fast and direct amperometric analysis of polyphenols in beers using tyrosinase-modified screen-printed gold nanoparticles biosensors. <i>Talanta</i> , 2019, 193, 93-99.	5.5	57
9	Impact of Santiago de Chile urban atmospheric pollution on anthropogenic trace elements enrichment in snow precipitation at Cerro Colorado, Central Andes. <i>Atmospheric Environment</i> , 2012, 47, 51-57.	4.1	56
10	Competitive heterogeneous enzyme immunoassay for theophylline by flow-injection analysis with electrochemical detection of p-aminophenol. <i>Clinical Chemistry</i> , 1990, 36, 662-665.	3.2	54
11	A Novel Cell Design for the Improved Stripping Voltammetric Detection of Zn(II), Cd(II), and Pb(II) on Commercial ScreenPrinted Strips by Bismuth Codeposition in Stirred Solutions. <i>Electroanalysis</i> , 2008, 20, 2608-2613.	2.9	54
12	Spatial gradient of human health risk from exposure to trace elements and radioactive pollutants in soils at the Puchuncav-Ventanas industrial complex, Chile. <i>Environmental Pollution</i> , 2016, 218, 322-330.	7.5	46
13	Evaluation of the influence of physical activity on the plasma concentrations of several trace metals. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1996, 73, 299-303.	1.2	40
14	Temporal and spatial variation of trace elements in atmospheric deposition around the industrial area of Puchuncav-Ventanas (Chile) and its influence on exceedances of lead and cadmium critical loads in soils. <i>Chemosphere</i> , 2016, 144, 1788-1796.	8.2	29
15	Miniaturized voltammetric stripping on screen printed gold electrodes for field determination of copper in atmospheric deposition. <i>Talanta</i> , 2012, 101, 435-439.	5.5	25
16	Antimony speciation in soils, sediments and volcanic ashes by microwave extraction and HPLC-HG-AFS detection. <i>Microchemical Journal</i> , 2016, 129, 111-116.	4.5	24
17	Determination of Mercury in indoor dust samples by ultrasonic probe microextraction and stripping voltammetry on gold nanoparticles-modified screen-printed electrodes. <i>Talanta</i> , 2012, 97, 187-192.	5.5	22
18	An Exploratory Study of Particulate PAHs in Low-Polluted Urban and Rural Areas of Southwest Spain: Concentrations, Source Assignment, Seasonal Variation and Correlations with Other Air Pollutants. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 5143-5154.	2.4	21

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19	Measurement of tropospheric ozone by digital image analysis of indigotrisulfonate-impregnated passive sampling pads using a smartphone camera. <i>Microchemical Journal</i> , 2020, 154, 104535.	4.5	21
20	Mercury pollution assessment in soils affected by industrial emissions using miniaturized ultrasonic probe extraction and ICP-MS. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 817-826.	3.5	20
21	Disposable sputtered-bismuth screen-printed sensors for voltammetric monitoring of cadmium and lead in atmospheric particulate matter samples. <i>Talanta</i> , 2017, 175, 313-317.	5.5	20
22	Adsorption kinetics of zinc in multicomponent ionic systems. <i>Journal of Colloid and Interface Science</i> , 2004, 277, 292-298.	9.4	19
23	Nafion-Protected Sputtered-Bismuth Screen-Printed Electrode for On-site Voltammetric Measurements of Cd(II) and Pb(II) in Natural Water Samples. <i>Sensors</i> , 2019, 19, 279.	3.8	19
24	Spatial distribution, sources, and risk assessment of major ions and trace elements in rainwater at Puchuncav Valley, Chile: The impact of industrial activities. <i>Atmospheric Pollution Research</i> , 2020, 11, 99-109.	3.8	19
25	Determination of copper in human plasma by stripping potentiometry on a mercury film electrode in ethylenediamine medium. <i>Analytica Chimica Acta</i> , 1995, 315, 69-76.	5.4	18
26	Determination of arsenic species by field amplified injection capillary electrophoresis after modification of the sample solution with methanol. <i>Analytica Chimica Acta</i> , 1999, 389, 9-19.	5.4	17
27	Characterisation of screen-printed gold and gold nanoparticle-modified carbon sensors by electrochemical impedance spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 2013, 709, 70-76.	3.8	17
28	Performance of a Bismuth Bulk Rotating Disk Electrode for Heavy Metal Analysis: Determination of Lead in Environmental Samples. <i>Electroanalysis</i> , 2012, 24, 1170-1177.	2.9	14
29	Ambient air levels and health risk assessment of benzo(a)pyrene in atmospheric particulate matter samples from low-polluted areas: application of an optimized microwave extraction and HPLC-FL methodology. <i>Environmental Science and Pollution Research</i> , 2015, 22, 5340-5349.	5.3	14
30	Presence of ²³⁶ U and ^{239,240} Pu in soils from Southern Hemisphere. <i>Journal of Environmental Radioactivity</i> , 2018, 192, 478-484.	1.7	14
31	Determination of Aliphatic Amines by High Performance Liquid Chromatography with Amperometric Detection after Derivatization with Phenylisothiocyanate. <i>Electroanalysis</i> , 2000, 12, 459-464.	2.9	13
32	High-throughput Mercury Monitoring in Indoor Dust Microsamples by Bath Ultrasonic Extraction and Anodic Stripping Voltammetry on Gold Nanoparticles-Modified Screen-Printed Electrodes. <i>Electroanalysis</i> , 2013, 25, 289-294.	2.9	13
33	Applicability of the bismuth bulk rotating disk electrode for heavy metal monitoring in undisturbed environmental and biological samples: determination of Zn in rainwater, tap water and urine. <i>Analytical Methods</i> , 2014, 6, 8668-8674.	2.7	13
34	A semiautomatic system for soluble lead and copper monitoring in atmospheric deposition by coupling of passive elemental fractionation sampling and voltammetric measurement on screen-printed gold electrodes. <i>Microchemical Journal</i> , 2016, 124, 20-25.	4.5	13
35	A portable, low-cost, smartphone assisted methodology for on-site measurement of NO ₂ levels in ambient air by selective chemical reactivity and digital image analysis. <i>Sensors and Actuators B: Chemical</i> , 2021, 338, 129867.	7.8	13
36	Radon and thoron exhalation rate, emanation factor and radioactivity risks of building materials of the Iberian Peninsula. <i>PeerJ</i> , 2020, 8, e10331.	2.0	13

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37	Determination of trace and major elemental profiles in street dust samples by fast miniaturized ultrasonic probe extraction and ICP-MS. <i>Talanta</i> , 2011, 84, 840-845.	5.5	12
38	A passive sampling " voltammetric detection approach based on screen-printed electrodes modified with indigo trisulfonate for the determination of ozone in ambient air. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 735-741.	7.8	11
39	Optimization and validation of a capillary electrophoresis methodology for inorganic anions in atmospheric aerosol samples. <i>Talanta</i> , 2008, 75, 748-752.	5.5	10
40	Determination of Lead in Ambient Aerosol Samples by Anodic Stripping Voltammetry on a Bismuth Film Electrode. <i>Electroanalysis</i> , 2011, 23, 215-221.	2.9	10
41	Fractionation of trace elements in total atmospheric deposition by filtering-bulk passive sampling. <i>Talanta</i> , 2014, 125, 125-130.	5.5	10
42	A Novel Bike-Mounted Sensing Device with Cloud Connectivity for Dynamic Air-Quality Monitoring by Urban Cyclists. <i>Sensors</i> , 2022, 22, 1272.	3.8	10
43	Nickel and cobalt determination by constant current potentiometry. <i>Fresenius' Journal of Analytical Chemistry</i> , 1993, 346, 952-956.	1.5	9
44	Adsorptive stripping voltammetry of oxytetracycline at the hanging mercury drop electrode (HMDE) in acid medium. <i>Fresenius Zeitschrift für Analytische Chemie</i> , 1988, 332, 821-822.	0.8	8
45	Determination of nickel and cobalt by constant current potentiometry. <i>Fresenius' Journal of Analytical Chemistry</i> , 1993, 346, 957-960.	1.5	6
46	Estimation of PM10 Levels and Sources in Air Quality Networks by Digital Analysis of Smartphone Camera Images Taken from Samples Deposited on Filters. <i>Sensors</i> , 2019, 19, 4791.	3.8	6
47	Trace Element Levels in Native Plant Species around the Industrial Site of Puchuncaví-Ventanas (Central Chile): Evaluation of the Phytoremediation Potential. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 713.	2.5	6
48	Determination of oxytetracycline in urine and human serum by differential pulse polarography. <i>Fresenius Zeitschrift für Analytische Chemie</i> , 1989, 335, 1002-1004.	0.8	5
49	Synoptic circulation patterns and local sources associated to high concentrations of tropospheric ozone in rural and suburban areas in southwestern Spain. <i>Air Quality, Atmosphere and Health</i> , 2020, 13, 97-108.	3.3	5
50	Radon alpha track counting on solid state nuclear track detector by an ImageJ-based software macro. <i>Applied Radiation and Isotopes</i> , 2021, 173, 109695.	1.5	5
51	Polarographic behavior of 8-chlorotheophylline and its determination in dosage forms. <i>Electroanalysis</i> , 1993, 5, 343-347.	2.9	4
52	Determination of testosterone thiosemicarbazone and study of its immunological reactions in urine by adsorptive stripping voltammetry. <i>Electroanalysis</i> , 1995, 7, 274-279.	2.9	4
53	Anodic oxidation of thioureido derivatives of biogenic amines at a glassy carbon electrode in an aqueous medium. <i>Journal of Electroanalytical Chemistry</i> , 1996, 410, 87-92.	3.8	4
54	Monitoring of Zn(II) and Cd(II) adsorption on activated carbon from aqueous multicomponent solutions by differential pulse polarography (DPP). <i>International Journal of Environmental Analytical Chemistry</i> , 2005, 85, 1051-1063.	3.3	4

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55	Presence of plutonium isotopes, ^{239}Pu and ^{240}Pu , in soils from Chile. Nuclear Instruments & Methods in Physics Research B, 2011, , .	1.4	4
56	Method validation and quality assurance of an ICP-MS protocol for the evaluation of trace and major elements in ambient aerosol samples and application to an air quality surveillance network. Accreditation and Quality Assurance, 2015, 20, 17-23.	0.8	4
57	Exhalation Rate Study of Thoron in Some Building Materials of the Iberian Peninsula. Proceedings (mdpi), 2018, 2, .	0.2	3
58	Optimization and validation test of a sonoreactor-assisted methodology for fast and miniaturized extraction of trace elements from soils. Talanta, 2021, 221, 121440.	5.5	2
59	Screen-Printed Gold Electrodes as Passive Samplers and Voltammetric Platforms for the Determination of Gaseous Elemental Mercury. Analytical Chemistry, 2021, 93, 3122-3129.	6.5	2
60	Wearable electrochemical sensors: innovative tools for the emerging mobile health ecosystem. Journal of Applied Bioanalysis, 2015, 1, 68-71.	0.2	2
61	A pocket-size device for monitoring gaseous elemental mercury by passive sampling on a Nano-Au screen-printed electrode and detection by single drop smartphone-controlled voltammetry. Microchemical Journal, 2022, 180, 107642.	4.5	2
62	Potentiometric stripping analysis (PSA) for monitoring of antimony in samples of vegetation from a mining area. Fresenius' Journal of Analytical Chemistry, 2001, 370, 434-437.	1.5	1
63	EFFECT OF COVID-19 LOCKDOWN ON AIR QUALITY IN URBAN AND SUBURBAN AREAS OF EXTREMADURA, SOUTHWEST SPAIN: A CASE STUDY IN USUALLY LOW POLLUTED AREAS. , 0, , .		1
64	Differential pulse polarographic investigation of the nickel(II)-orotic acid complex. Electroanalysis, 1995, 7, 95-96.	2.9	0
65	Determination of Trace Elements in Atmospheric Samples by Ultrasonic Probe Microextraction and ICP-MS. Proceedings (mdpi), 2018, 2, .	0.2	0