

Esteban Alonso

List of Publications by Year in descending order

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112
papers

4,736
citations

76196

40
h-index

106150

65
g-index

112
all docs

112
docs citations

112
times ranked

5547
citing authors

#	ARTICLE	IF	CITATIONS
1	Occurrence and risk assessment of pharmaceutically active compounds in wastewater treatment plants. A case study: Seville city (Spain). <i>Environment International</i> , 2007, 33, 596-601.	4.8	332
2	Occurrence of pharmaceutical compounds in wastewater and sludge from wastewater treatment plants: Removal and ecotoxicological impact of wastewater discharges and sludge disposal. <i>Journal of Hazardous Materials</i> , 2012, 239-240, 40-47.	6.5	309
3	Heavy metal extractable forms in sludge from wastewater treatment plants. <i>Chemosphere</i> , 2002, 47, 765-775.	4.2	249
4	Occurrence of pharmaceutically active compounds during 1-year period in wastewaters from four wastewater treatment plants in Seville (Spain). <i>Journal of Hazardous Materials</i> , 2009, 164, 1509-1516.	6.5	241
5	Simultaneous determination of pharmaceutically active compounds in wastewater samples by solid phase extraction and high-performance liquid chromatography with diode array and fluorescence detectors. <i>Analytica Chimica Acta</i> , 2005, 550, 116-122.	2.6	177
6	Pharmaceutically active compounds in sludge stabilization treatments: Anaerobic and aerobic digestion, wastewater stabilization ponds and composting. <i>Science of the Total Environment</i> , 2015, 503-504, 97-104.	3.9	135
7	Simultaneous determination of a selected group of cytostatic drugs in water using high-performance liquid chromatography-triple quadrupole mass spectrometry. <i>Journal of Separation Science</i> , 2011, 34, 3166-3177.	1.3	107
8	Multi-residue method for the analysis of pharmaceutical compounds in sewage sludge, compost and sediments by sonication-assisted extraction and LC determination. <i>Journal of Separation Science</i> , 2010, 33, 1760-1766.	1.3	106
9	Occurrence, temporal evolution and risk assessment of pharmaceutically active compounds in Doñana Park (Spain). <i>Journal of Hazardous Materials</i> , 2010, 183, 602-608.	6.5	96
10	Limitation of the concentration of organic pollutants in sewage sludge for agricultural purposes: A case study in South Spain. <i>Waste Management</i> , 2009, 29, 1747-1753.	3.7	93
11	Effectiveness of Conventional and Low-Cost Wastewater Treatments in the Removal of Pharmaceutically Active Compounds. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 2611-2621.	1.1	89
12	Distribution and temporal evolution of pharmaceutically active compounds alongside sewage sludge treatment. Risk assessment of sludge application onto soils. <i>Journal of Environmental Management</i> , 2012, 102, 18-25.	3.8	88
13	Occurrence of pharmaceuticals and their metabolites in sewage sludge and soil: A review on their distribution and environmental risk assessment. <i>Trends in Environmental Analytical Chemistry</i> , 2021, 30, e00125.	5.3	79
14	Stir bar sorptive extraction and liquid chromatography-tandem mass spectrometry determination of polar and non-polar emerging and priority pollutants in environmental waters. <i>Journal of Chromatography A</i> , 2017, 1500, 43-52.	1.8	78
15	Antibiotic adsorption by natural and modified clay minerals as designer adsorbents for wastewater treatment: A comprehensive review. <i>Journal of Environmental Management</i> , 2022, 317, 115397.	3.8	73
16	Biopolymer-clay nanocomposites as novel and ecofriendly adsorbents for environmental remediation. <i>Applied Clay Science</i> , 2020, 198, 105838.	2.6	67
17	Occurrence of surfactants in wastewater: Hourly and seasonal variations in urban and industrial wastewaters from Seville (Southern Spain). <i>Science of the Total Environment</i> , 2014, 468-469, 977-984.	3.9	66
18	Temporal evolution of polycyclic aromatic hydrocarbons (PAHs) in sludge from wastewater treatment plants: Comparison between PAHs and heavy metals. <i>Chemosphere</i> , 2006, 64, 535-541.	4.2	64

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19	Multi-residue analysis of 36 priority and emerging pollutants in marine echinoderms (Holothuria) Tj ETQq1 1 0.784314 rgBT /Overlock 11 extraction and liquid chromatography-tandem mass spectrometry analysis. <i>Talanta</i> , 2017, 166, 336-348.	2.9	64
20	Occurrence and Ecotoxicological Risk Assessment of 14 Cytostatic Drugs in Wastewater. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	61
21	High-performance liquid chromatography quadrupole time-of-flight mass spectrometry method for the analysis of antidiabetic drugs in aqueous environmental samples. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 895-896, 94-101.	1.2	60
22	Occurrence and risk assessment of nonylphenol and nonylphenol ethoxylates in sewage sludge from different conventional treatment processes. <i>Science of the Total Environment</i> , 2010, 408, 563-570.	3.9	58
23	Presence of pharmaceutically active compounds in Doña Ana Park (Spain) main watersheds. <i>Journal of Hazardous Materials</i> , 2010, 177, 1159-1162.	6.5	58
24	Simultaneous sonication-assisted extraction, and determination by gas chromatography-mass spectrometry, of di-(2-ethylhexyl)phthalate, nonylphenol, nonylphenol ethoxylates and polychlorinated biphenyls in sludge from wastewater treatment plants. <i>Analytica Chimica Acta</i> , 2007, 584, 455-461.	2.6	57
25	An affordable method for the simultaneous determination of the most studied pharmaceutical compounds as wastewater and surface water pollutants. <i>Journal of Separation Science</i> , 2009, 32, 3064-3073.	1.3	56
26	Removal of priority and emerging pollutants from aqueous media by adsorption onto synthetic organo-functionalized high-charge swelling micas. <i>Environmental Research</i> , 2018, 164, 488-494.	3.7	56
27	Adsorption of propranolol onto montmorillonite: Kinetic, isotherm and pH studies. <i>Applied Clay Science</i> , 2019, 173, 107-114.	2.6	55
28	Evaluation of a modified mica and montmorillonite for the adsorption of ibuprofen from aqueous media. <i>Applied Clay Science</i> , 2019, 171, 29-37.	2.6	54
29	Speciation as a screening tool for the determination of heavy metal surface water pollution in the Guadiamar river basin. <i>Chemosphere</i> , 2004, 56, 561-570.	4.2	53
30	Comparison of different extraction methods for the determination of statin drugs in wastewater and river water by HPLC/Q-TOF-MS. <i>Talanta</i> , 2011, 85, 607-615.	2.9	53
31	Determination of hormones, a plasticizer, preservatives, perfluoroalkylated compounds, and a flame retardant in water samples by ultrasound-assisted dispersive liquid-liquid microextraction based on the solidification of a floating organic drop. <i>Talanta</i> , 2015, 143, 335-343.	2.9	53
32	Optimization and validation of a new method for analysis of linear alkylbenzene sulfonates in sewage sludge by liquid chromatography after microwave-assisted extraction. <i>Analytica Chimica Acta</i> , 2007, 599, 92-97.	2.6	50
33	Optimization and validation of a new method of analysis for polycyclic aromatic hydrocarbons in sewage sludge by liquid chromatography after microwave assisted extraction. <i>Analytica Chimica Acta</i> , 2004, 524, 295-304.	2.6	49
34	Concentration evolution of pharmaceutically active compounds in raw urban and industrial wastewater. <i>Chemosphere</i> , 2014, 111, 70-79.	4.2	49
35	Emerging contaminants in the atmosphere: Analysis, occurrence and future challenges. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 104-171.	6.6	47
36	Determination of household and industrial chemicals, personal care products and hormones in leafy and root vegetables by liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2018, 1533, 49-56.	1.8	46

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37	A new method for the routine analysis of LAS and PAH in sewage sludge by simultaneous sonication-assisted extraction prior to liquid chromatographic determination. <i>Analytica Chimica Acta</i> , 2007, 605, 102-109.	2.6	44
38	Effectiveness of three configurations of membrane bioreactors on the removal of priority and emergent organic compounds from wastewater: comparison with conventional wastewater treatments. <i>Journal of Environmental Monitoring</i> , 2012, 14, 1428.	2.1	44
39	Monitoring of pharmaceutically active compounds on the Guadalquivir River basin (Spain): occurrence and risk assessment. <i>Journal of Environmental Monitoring</i> , 2011, 13, 2042.	2.1	43
40	Exposure assessment to parabens, bisphenol A and perfluoroalkyl compounds in children, women and men by hair analysis. <i>Science of the Total Environment</i> , 2019, 695, 133864.	3.9	42
41	Analytical method for biomonitoring of endocrine-disrupting compounds (bisphenol A, parabens,) Tj ETQq1 1 0.784314 rgBT /Overload chromatography-tandem mass spectrometry. <i>Analytica Chimica Acta</i> , 2016, 945, 95-101.	2.6	41
42	Monitoring of emerging pollutants in Guadiamar River basin (South of Spain): analytical method, spatial distribution and environmental risk assessment. <i>Environmental Science and Pollution Research</i> , 2016, 23, 25127-25144.	2.7	40
43	On the feasibility of urban wastewater tertiary treatment by membranes: a comparative assessment. <i>Desalination</i> , 2001, 141, 39-51.	4.0	39
44	Fractionation of heavy metals in sludge from anaerobic wastewater stabilization ponds in southern Spain. <i>Waste Management</i> , 2006, 26, 1270-1276.	3.7	37
45	Sources and behaviour of polybrominated diphenyl ethers (PBDEs), polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/Fs) in Spanish sewage sludge. <i>Waste Management</i> , 2011, 31, 1277-1284.	3.7	36
46	Multi-class method for biomonitoring of hair samples using gas chromatography-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 8725-8734.	1.9	36
47	Biomonitoring of 21 endocrine disrupting chemicals in human hair samples using ultra-high performance liquid chromatography-tandem mass spectrometry. <i>Chemosphere</i> , 2017, 168, 676-684.	4.2	35
48	Trace organics removal using three membrane bioreactor configurations: MBR, IFAS-MBR and MBMBR. <i>Water Science and Technology</i> , 2015, 71, 761-768.	1.2	34
49	Occurrence, fate and environmental risk of anionic surfactants, bisphenol A, perfluorinated compounds and personal care products in sludge stabilization treatments. <i>Science of the Total Environment</i> , 2020, 711, 135048.	3.9	32
50	Title is missing!. <i>Water, Air, and Soil Pollution</i> , 2002, 140, 139-156.	1.1	31
51	Simultaneous and individual adsorption of ibuprofen metabolites by a modified montmorillonite. <i>Applied Clay Science</i> , 2020, 189, 105529.	2.6	31
52	Distribution of Zn, Cd, Pb and Cu Metals in Groundwater of the Guadiamar River Basin. <i>Water, Air, and Soil Pollution</i> , 2002, 134, 273-283.	1.1	30
53	Bioaccumulation of perfluoroalkyl substances in marine echinoderms: Results of laboratory-scale experiments with <i>Holothuria tubulosa</i> Gmelin, 1791. <i>Chemosphere</i> , 2019, 215, 261-271.	4.2	30
54	Heavy metal content and speciation in groundwater of the Guadiamar river basin. <i>Chemosphere</i> , 2002, 48, 279-285.	4.2	29

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55	Determination of perfluorinated compounds, bisphenol A, anionic surfactants and personal care products in digested sludge, compost and soil by liquid-chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2018, 1576, 34-41.	1.8	28
56	New rapid methods for determination of total LAS in sewage sludge by high performance liquid chromatography (HPLC) and capillary electrophoresis (CE). <i>Analytica Chimica Acta</i> , 2009, 634, 267-271.	2.6	27
57	Potential physiological effects of pharmaceutical compounds in Atlantic salmon (<i>Salmo salar</i>) implied by transcriptomic analysis. <i>Environmental Science and Pollution Research</i> , 2010, 17, 917-933.	2.7	23
58	Degradation and environmental risk of surfactants after the application of compost sludge to the soil. <i>Waste Management</i> , 2012, 32, 1324-1331.	3.7	23
59	Enantioselective behavior of environmental chiral pollutants: A comprehensive review. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 2995-3034.	6.6	22
60	Porous Titanium Cylinders Obtained by the Freeze-Casting Technique: Influence of Process Parameters on Porosity and Mechanical Behavior. <i>Metals</i> , 2020, 10, 188.	1.0	22
61	Distribution and Risk Assessment of Pharmaceutical Compounds in River Sediments from Doña Ana Park (Spain). <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	20
62	Determination of emerging and priority industrial pollutants in surface water and wastewater by liquid chromatography–negative electrospray ionization tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3709-3716.	1.9	20
63	Comparison of ultrasound-assisted extraction, QuEChERS and selective pressurized liquid extraction for the determination of metabolites of parabens and pharmaceuticals in sludge. <i>Microchemical Journal</i> , 2020, 157, 104987.	2.3	20
64	Determination of priority pollutants in aqueous samples by dispersive liquid–liquid microextraction. <i>Analytica Chimica Acta</i> , 2013, 773, 60-67.	2.6	18
65	Sequential extraction of metals from mixed and digested sludge from aerobic WWTPs sited in the south of Spain. <i>Waste Management</i> , 2009, 29, 418-424.	3.7	17
66	Novel synthetic clays for the adsorption of surfactants from aqueous media. <i>Journal of Environmental Management</i> , 2018, 206, 357-363.	3.8	17
67	Assessing bioaccumulation potential of personal care, household and industrial products in a marine echinoderm (<i>Holothuria tubulosa</i>). <i>Science of the Total Environment</i> , 2020, 720, 137668.	3.9	17
68	Determination of heavy metals in sewage sludge by microwave acid digestion and inductively coupled plasma atomic emission spectrometry. <i>Toxicological and Environmental Chemistry</i> , 2000, 75, 207-214.	0.6	16
69	Analytical Method for Biomonitoring of PAH Using Leaves of Bitter Orange Trees (<i>Citrus aurantium</i>): a Case Study in South Spain. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	16
70	Routine analytical method for monitoring the main metabolites for a recurrent group of parabens and pharmaceuticals in wastewater and tap water. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 6625-6635.	1.9	16
71	Occurrence of the main metabolites of the most recurrent pharmaceuticals and personal care products in Mediterranean soils. <i>Journal of Environmental Management</i> , 2021, 278, 111584.	3.8	16
72	An overview of analytical methods for enantiomeric determination of chiral pollutants in environmental samples and biota. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116370.	5.8	16

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73	Monitoring of di-(2-ethylhexyl)phthalate, nonylphenol, nonylphenol ethoxylates, and polychlorinated biphenyls in anaerobic and aerobic sewage sludge by gas chromatography–mass spectrometry. <i>International Journal of Environmental Analytical Chemistry</i> , 2007, 87, 1033-1042.	1.8	15
74	Occurrence of the main metabolites of pharmaceuticals and personal care products in sludge stabilization treatments. <i>Waste Management</i> , 2020, 116, 22-30.	3.7	15
75	Hepatic Proteome Analysis of Atlantic Salmon (<i>Salmo salar</i>) After Exposure to Environmental Concentrations of Human Pharmaceuticals. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 371-381.	2.5	14
76	Simultaneous pressurized liquid extraction and clean-up for the determination of metabolites in complex environmental solid matrices. <i>Microchemical Journal</i> , 2020, 152, 104370.	2.3	14
77	Uptake and translocation of multiresidue industrial and household contaminants in radish grown under controlled conditions. <i>Chemosphere</i> , 2021, 268, 128823.	4.2	14
78	The IFAS-MBR process: a compact combination of biofilm and MBR technology as RO pretreatment. <i>Desalination and Water Treatment</i> , 2013, 51, 1063-1069.	1.0	13
79	Validated method for the determination of perfluorinated compounds in placental tissue samples based on a simple extraction procedure followed by ultra-high performance liquid chromatography–tandem mass spectrometry analysis. <i>Talanta</i> , 2016, 150, 169-176.	2.9	13
80	Dispersive liquid–liquid microextraction as a new clean-up procedure for the determination of parabens, perfluorinated compounds, UV filters, biocides, surfactants, and plasticizers in root vegetables. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5155-5163.	1.9	12
81	Adsorption of Polycyclic Aromatic Hydrocarbons by Natural, Synthetic and Modified Clays. <i>Environments - MDPI</i> , 2021, 8, 124.	1.5	12
82	Evolution of polycyclic aromatic hydrocarbons (PAHs) and heavy metals in sludge samples from conventional activated sludge wastewater treatment plants. <i>Environmetrics</i> , 2009, 20, 561-574.	0.6	11
83	Nature and origin of the violet stains on the walls of a Roman tomb. <i>Science of the Total Environment</i> , 2017, 598, 889-899.	3.9	10
84	Baseline activity concentration of ²¹⁰ Po and ²¹⁰ Pb and dose assessment in bivalve molluscs at the Andalusian coast. <i>Marine Pollution Bulletin</i> , 2018, 133, 711-716.	2.3	10
85	Levels of radionuclide concentrations in benthic invertebrate species from the Balearic Islands, Western Mediterranean, during 2012–2018. <i>Marine Pollution Bulletin</i> , 2019, 149, 110519.	2.3	10
86	Geographical origin of bivalve molluscs in coastal areas using natural radioactivity fingerprinting and multivariate statistical analyses: Andalusian coast as case of study. <i>Journal of Hazardous Materials</i> , 2019, 367, 706-714.	6.5	10
87	Micro-Organism Re-Growth in Wastewater Disinfected by UV Radiation and Ozone: A Micro-Biological Study. <i>Environmental Technology (United Kingdom)</i> , 2004, 25, 433-441.	1.2	9
88	Analytical pyrolysis evidences the presence of granaticins in the violet stains of a Roman tomb. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 117, 357-362.	2.6	9
89	Distribution of metals in sediments of the Guadiamar river basin 20 years after the Aznalc��llar mine spill: Bioavailability and risk assessment. <i>Journal of Environmental Management</i> , 2020, 260, 110146.	3.8	9
90	Analytical method for the evaluation of the outdoor air contamination by emerging pollutants using tree leaves as bioindicators. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 417-428.	1.9	8

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91	Effects of the antineoplastic drug cyclophosphamide on the biochemical responses of the mussel <i>Mytilus galloprovincialis</i> under different temperatures. <i>Environmental Pollution</i> , 2021, 288, 117735.	3.7	8
92	Development and validation of a highly effective analytical method for the evaluation of the exposure of migratory birds to antibiotics and their metabolites by faeces analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3373-3386.	1.9	8
93	Method for the simultaneous determination of the most problematic families of organic pollutants in compost and compost-amended soil. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 277-285.	1.9	7
94	Fractionation and Distribution of Metals in Guadiamar River Sediments (SW Spain). <i>Water, Air, and Soil Pollution</i> , 2010, 207, 103-113.	1.1	7
95	Selective pressurized extraction as single-step extraction and clean-up for the determination of organophosphate ester flame retardant in <i>Citrus aurantium</i> leaves by gas chromatography-tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 2665-2674.	1.9	7
96	Assessment of exposure to perfluoroalkyl substances (PFASs) in dogs by fur analysis. <i>Environmental Pollution</i> , 2021, 286, 117435.	3.7	7
97	Polar stir bars for isolation and preconcentration of perfluoroalkyl substances from human milk samples prior to UHPLC-MS/MS analysis. <i>Bioanalysis</i> , 2016, 8, 633-647.	0.6	6
98	Biomonitoring parabens in dogs using fur sample analysis – Preliminary studies. <i>Science of the Total Environment</i> , 2022, 807, 150757.	3.9	6
99	Approach to the Dynamic of Carbamazepine and its Main Metabolites in Soil Contamination through the Reuse of Wastewater and Sewage Sludge. <i>Molecules</i> , 2020, 25, 5306.	1.7	5
100	Pharmaceuticals and Their Main Metabolites in Treated Sewage Sludge and Sludge-Amended Soil: Availability and Sorption Behaviour. <i>Molecules</i> , 2021, 26, 5910.	1.7	5
101	Determination of bisphenol A, its chlorinated derivatives and structural analogues in vegetables by focussed ultrasound solid-liquid extraction and GC-MS/MS. <i>Environmental Chemistry</i> , 2020, 17, 266.	0.7	4
102	Presence of organic pollutants in sludge from anaerobic wastewater stabilization ponds. <i>Desalination and Water Treatment</i> , 2009, 4, 116-121.	1.0	3
103	Development of an analytical method for the simultaneous determination of the 17 EU Watch List compounds in surface waters: a Spanish case study. <i>Environmental Chemistry</i> , 2018, 15, 493.	0.7	3
104	Pharmaceuticals and Their Metabolites in Sewage Sludge and Soils: Distribution and Environmental Risk Assessment. <i>Handbook of Environmental Chemistry</i> , 2022, , 19-36.	0.2	3
105	Occurrence of Linear Alkylbenzene Sulfonates, Nonylphenol Ethoxylates and Di(2-ethylhexyl)phthalate in Composting Processes: Environmental Risks. <i>Sustainability</i> , 2022, 14, 186.	1.6	3
106	Hair Sample Analysis as a Method of Monitoring Exposure to Bisphenol A in Dogs. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4600.	1.2	3
107	Influence of Cadmium on the Performance of an Activated SBR Sludge Treatment. <i>Environmental Technology (United Kingdom)</i> , 2005, 26, 127-134.	1.2	2
108	A uniform nonlinearity criterion for rational functions applied to calibration curve and standard addition methods. <i>Talanta</i> , 2014, 130, 307-314.	2.9	2

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109	Evaluation of the airborne pollution by emerging contaminants using bitter orange (Citrus) Tj ETQq1 1 0.784314 rgBT /Overlqck 10 Tt 5	3.9	2
110	Ultrasound-assisted extraction as an easy-to-perform analytical methodology for monitoring ibuprofen and its main metabolites in mussels. Analytical and Bioanalytical Chemistry, 0, , .	1.9	1
111	Elimination of trace organics in an MBR/RO system for water reuse. Journal of Water Reuse and Desalination, 2012, 2, 210-217.	1.2	0
112	A Systematic Review on Distribution and Ecological Risk Assessment for Chiral Pharmaceuticals in Environmental Compartments. Reviews of Environmental Contamination and Toxicology, 2022, 260, 1.	0.7	0