JosÃ© R Gallego

List of Publications by Year
in descending order

98 papers	3,268 citations	136885 32 h-index	168321 53 g-index
101 all docs	101 docs citations	101 times ranked	3613 citing authors

#	Article	IF	Citations
1	Bioremediation of diesel-contaminated soils: evaluation of potential in situ techniques by study of bacterial degradation. Biodegradation, 2001, 12, 325-335.	1.5	218
2	Investigation of trace element sources from an industrialized area (AvilÃ©s, northern Spain) using multivariate statistical methods. Environment International, 2002, 27, 589-596.	4.8	129
3	Metaproteogenomic insights beyond bacterial response to naphthalene exposure and bio-stimulation. ISME Journal, 2013, 7, 122-136.	4.4	124
4	A nanoremediation strategy for the recovery of an As-polluted soil. Chemosphere, 2016, 149, 137-145.	4.2	111
5	Microbial stratification in low pH oxic and suboxic macroscopic growths along an acid mine drainage. ISME Journal, 2014, 8, 1259-1274.	4.4	105
6	Use of Endophytic and Rhizosphere Bacteria To Improve Phytoremediation of Arsenic-Contaminated Industrial Soils by Autochthonous Betula celtiberica. Applied and Environmental Microbiology, 2017, 83, .	1.4	105
7	Comparing different commercial zero valent iron nanoparticles to immobilize As and Hg in brownfield soil. Science of the Total Environment, 2017, 584-585, 1324-1332.	3.9	101
8	Phytoremediation capability of native plant species living on Pb-Zn and Hg-As mining wastes in the Cantabrian range, north of Spain. Journal of Geochemical Exploration, 2017, 174, 10-20.	1.5	96
9	Nanoremediation of As and metals polluted soils by means of graphene oxide nanoparticles. Scientific Reports, 2020, 10, 1896.	1.6	90
10	Bacterial, Archaeal, and Eukaryotic Diversity across Distinct Microhabitats in an Acid Mine Drainage. Frontiers in Microbiology, 2017, 8, 1756.	1.5	88
11	Geochemical characterisation of mercury mining spoil heaps in the area of Mieres (Asturias, northern) Tj ETQq1 1 0.784314 rgBT /Ove	1.5	87
12	Human health risk assessment in restoring safe and productive use of abandoned contaminated sites. Environment International, 2016, 94, 436-448.	4.8	84
13	Zero valent iron and goethite nanoparticles as new promising remediation techniques for As-polluted soils. Chemosphere, 2020, 238, 124624.	4.2	79
14	Biodegradation of Oil Tank Bottom Sludge using Microbial Consortia. Biodegradation, 2007, 18, 269-281.	1.5	76
15	An assessment of the environmental fate of mercury species in highly polluted brownfields by means of thermal desorption. Journal of Hazardous Materials, 2017, 325, 1-7.	6.5	67
16	Palaeoenvironmental reconstruction of Northern Spain during the last 8000calyr BP based on the biomarker content of the RoÃ±anzas peat bog (Asturias). Organic Geochemistry, 2010, 41, 454-466.	0.9	66
17	Nanoremediation and long-term monitoring of brownfield soil highly polluted with As and Hg. Science of the Total Environment, 2019, 675, 165-175.	3.9	60
18	Natural attenuation and bioremediation of Prestige fuel oil along the Atlantic coast of Galicia (Spain). Organic Geochemistry, 2006, 37, 1869-1884.	0.9	59

#	Article	IF	Citations
19	n-Alkan-2-ones in peat-forming plants from the RoÃ±anzas ombrotrophic bog (Asturias, northern) Tj ETQq1 1 0.784314 rgBT /Overloc	0.9	59
20	Comprehensive waste characterization and organic pollution co-occurrence in a Hg and As mining and metallurgy brownfield. Journal of Hazardous Materials, 2015, 300, 561-571.	6.5	58
21	Multivariate study of trace element distribution in the geological record of RoÃ±anzas Peat Bog (Asturias, N. Spain). Paleoenvironmental evolution and human activities over the last 8000calyr BP. Science of the Total Environment, 2013, 454-455, 16-29.	3.9	56
22	Engineered in situ bioremediation of soil and groundwater polluted with weathered hydrocarbons. European Journal of Soil Biology, 2007, 43, 310-321.	1.4	51
23	Feasibility study on the use of soil washing to remediate the Asâ€“Hg contamination at an ancient mining and metallurgy area. Journal of Hazardous Materials, 2011, 196, 93-100.	6.5	49
24	Magnetite nanoparticles for the remediation of soils co-contaminated with As and PAHs. Chemical Engineering Journal, 2020, 399, 125809.	6.6	48
25	Photodegradation of polycyclic aromatic hydrocarbons in fossil fuels catalysed by supported TiO2. Applied Catalysis B: Environmental, 2006, 67, 279-289.	10.8	47
26	Analysis of soil washing effectiveness to remediate a brownfield polluted with pyrite ashes. Journal of Hazardous Materials, 2010, 180, 602-608.	6.5	47
27	Nanoscale zero-valent iron-assisted soil washing for the removal of potentially toxic elements. Journal of Hazardous Materials, 2018, 350, 55-65.	6.5	45
28	Long-term ongoing impact of arsenic contamination on the environmental compartments of a former mining-metallurgy area. Science of the Total Environment, 2018, 610-611, 820-830.	3.9	41
29	Trace elements of concern affecting urban agriculture in industrialized areas: A multivariate approach. Chemosphere, 2017, 183, 546-556.	4.2	40
30	Design and field-scale implementation of an â€œon siteâ€•bioremediation treatment in PAH-polluted soil. Environmental Pollution, 2013, 181, 190-199.	3.7	39
31	Insights into a 20-ha multi-contaminated brownfield megasite: An environmental forensics approach. Science of the Total Environment, 2016, 563-564, 683-692.	3.9	38
32	Evaluation of biostimulation, bioaugmentation, and organic amendments application on the bioremediation of recalcitrant hydrocarbons of soil. Chemosphere, 2022, 307, 135638.	4.2	34
33	Application of biochar, compost and ZVI nanoparticles for the remediation of As, Cu, Pb and Zn polluted soil. Environmental Science and Pollution Research, 2020, 27, 33681-33691.	2.7	33
34	Nanofiltration of Acid Mine Drainage in an Abandoned Mercury Mining Area. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	32
35	Soil washing optimization by means of attributive analysis: Case study for the removal of potentially toxic elements from soil contaminated with pyrite ash. Journal of Cleaner Production, 2017, 142, 2693-2699.	4.6	32
36	Developing a new Bayesian Risk Index for risk evaluation of soil contamination. Science of the Total Environment, 2017, 603-604, 167-177.	3.9	31

#	Article	IF	Citations
37	Origin, patterns and anthropogenic accumulation of potentially toxic elements (PTEs) in surface sediments of the AvilÃ©s estuary (Asturias, northern Spain). Marine Pollution Bulletin, 2014, 86, 530-538.	2.3	29
38	Bioremediation for Shoreline Cleanup: In Situ vs. On-Site Treatments. Environmental Engineering Science, 2007, 24, 493-504.	0.8	28
39	High intensity magnetic separation for the clean-up of a site polluted by lead metallurgy. Journal of Hazardous Materials, 2013, 248-249, 194-201.	6.5	28
40	Full-Scale Remediation of a Jet Fuel-Contaminated Soil: Assessment of Biodegradation, Volatilization, and Bioavailability. Water, Air, and Soil Pollution, 2011, 217, 197-211.	1.1	27
41	Optimisation of magnetic separation: A case study for soil washing at a heavy metals polluted site. Chemosphere, 2014, 107, 290-296.	4.2	25
42	Biomarkers and inorganic proxies in the paleoenvironmental reconstruction of mires: The importance of landscape in Las Conchas (Asturias, Northern Spain). Organic Geochemistry, 2016, 95, 41-54.	0.9	25
43	Zero valent iron nanoparticles and organic fertilizer assisted phytoremediation in a mining soil: Arsenic and mercury accumulation and effects on the antioxidative system of Medicago sativa L.. Journal of Hazardous Materials, 2022, 433, 128748.	6.5	23
44	A coupled multivariate statistics, geostatistical and machine-learning approach to address soil pollution in a prototypical Hg-mining site in a natural reserve. Chemosphere, 2019, 218, 767-777.	4.2	22
45	Bioaugmentation Treatment of a PAH-Polluted Soil in a Slurry Bioreactor. Applied Sciences (Switzerland), 2020, 10, 2837.	1.3	22
46	Arsenic release from pyrite ash waste over an active hydrogeological system and its effects on water quality. Environmental Science and Pollution Research, 2020, 27, 10672-10684.	2.7	21
47	Pyrolysis GCâ€“MS for the rapid environmental forensic screening of contaminated brownfield soil. Organic Geochemistry, 2015, 87, 9-20.	0.9	20
48	Combining raw and compositional data to determine the spatial patterns of Potentially Toxic Elements in soils. Science of the Total Environment, 2018, 631-632, 1117-1126.	3.9	20
49	Optimization of Landfarming Amendments Based on Soil Texture and Crude Oil Concentration. Water, Air, and Soil Pollution, 2018, 229, 1.	1.1	20
50	Benzo[a]pyrene sourcing and abundance in a coal region in transition reveals historical pollution, rendering soil screening levels impractical. Environmental Pollution, 2020, 266, 115341.	3.7	20
51	Multiple pollution sources unravelled by environmental forensics techniques and multivariate statistics. Journal of Hazardous Materials, 2022, 424, 127413.	6.5	20
52	Weathering processes only partially limit the potential for bioremediation of hydrocarbon-contaminated soils. Organic Geochemistry, 2010, 41, 896-900.	0.9	18
53	Effects of in situ Remediation With Nanoscale Zero Valence Iron on the Physicochemical Conditions and Bacterial Communities of Groundwater Contaminated With Arsenic. Frontiers in Microbiology, 2021, 12, 643589.	1.5	18
54	Geochemical study of a mining-metallurgy site polluted with As and Hg and the transfer of these contaminants to Equisetum sp. Journal of Geochemical Exploration, 2017, 182, 1-9.	1.5	17

#	Article	IF	Citations
55	Diagnostic ratios for the rapid evaluation of natural attenuation of heavy fuel oil pollution along shores. Chemosphere, 2017, 184, 1089-1098.	4.2	15
56	A multi-faceted, environmental forensic characterization of a paradigmatic brownfield polluted by hazardous waste containing Hg, As, PAHs and dioxins. Science of the Total Environment, 2020, 726, 138546.	3.9	15
57	CRUDE OIL BIODEGRADATION AND ENVIRONMENTAL FACTORS AT THE RIUTORT OIL SHALE MINE, SE PYRENEES. Journal of Petroleum Geology, 2010, 33, 123-139.	0.9	14
58	Intra- and inter-field compositional changes of oils from the Misoa B4 reservoir in the Ceuta Southeast Area (Lake Maracaibo, Venezuela). Fuel, 2016, 167, 118-134.	3.4	14
59	Environmental forensic characterization of former rail yard soils located adjacent to the Statue of Liberty in the New York/New Jersey harbor. Science of the Total Environment, 2019, 690, 1019-1034.	3.9	14
60	A holistic methodology to study geochemical and geomorphological control of the distribution of potentially toxic elements in soil. Catena, 2022, 208, 105730.	2.2	14
61	Compositional variability in oils and formation waters from the Ayoluengo and HontomÃn fields (Burgos, Spain). Implications for assessing biodegradation and reservoir compartmentalization. Organic Geochemistry, 2013, 54, 125-139.	0.9	13
62	A multivariate examination of the timing and accumulation of potentially toxic elements at Las Conchas bog (NW Spain). Environmental Pollution, 2019, 254, 113048.	3.7	13
63	Phytoremediation Potential of Native Herbaceous Plant Species Growing on a Paradigmatic Brownfield Site. Water, Air, and Soil Pollution, 2021, 232, 1.	1.1	13
64	Environmental forensics of complexly contaminated sites: A complimentary fingerprinting approach. Environmental Pollution, 2020, 263, 114645.	3.7	12
65	As sorption onto Fe-based nanoparticles and recovery from soils by means of wet high intensity magnetic separation. Chemical Engineering Journal, 2021, 408, 127325.	6.6	12
66	Local versus Regional Soil Screening Levels to Identify Potentially Polluted Areas. Mathematical Geosciences, 2020, 52, 381-396.	1.4	11
67	A novel and synergistic geostatistical approach to identify sources and cores of Potentially Toxic Elements in soils: An application in the region of Cantabria (Northern Spain). Journal of Geochemical Exploration, 2020, 208, 106397.	1.5	11
68	Short-term experiment for the in situ stabilization of a polluted soil using mining and biomass waste. Journal of Environmental Management, 2021, 296, 113179.	3.8	11
69	Assessment of mercury pollution sources in beach sand and coastal soil by speciation analysis. Environmental Sciences Europe, 2019, 31, .	2.6	11
70	Interplay between arsenic and selenium biomineralization in Shewanella sp. O23S. Environmental Pollution, 2022, 306, 119451.	3.7	11
71	Element enrichment factor calculation using grain-size distribution and functional data regression. Chemosphere, 2015, 119, 1192-1199.	4.2	10
72	Using gas geochemistry to delineate structural compartments and assess petroleum reservoir-filling directions: A Venezuelan case study. Journal of South American Earth Sciences, 2013, 43, 1-7.	0.6	9

#	Article	IF	Citations
73	Effects of Different In Situ Remediation Strategies for an As-Polluted Soil on Human Health Risk, Soil Properties, and Vegetation. Agronomy, 2020, 10, 759.	1.3	9
74	Compositional baseline assessments to address soil pollution: An application in Langreo, Spain. Science of the Total Environment, 2022, 812, 152383.	3.9	9
75	Correlation between Geochemical and Multispectral Patterns in an Area Severely Contaminated by Former Hg-As Mining. ISPRS International Journal of Geo-Information, 2020, 9, 739.	1.4	8
76	Screening of Pioneer Metallophyte Plant Species with Phytoremediation Potential at a Severely Contaminated Hg and As Mining Site. Environments - MDPI, 2021, 8, 63.	1.5	8
77	Enhanced Soil Washing for the Remediation of a Brownfield Polluted by Pyrite Ash. Soil and Sediment Contamination, 2017, 26, 377-390.	1.1	7
78	Contribution of fluorite mining waste to mercury contamination in coastal systems. Marine Pollution Bulletin, 2019, 149, 110576.	2.3	7
79	Functional data analysis as a tool to correlate textural and geochemical data. Applied Mathematics and Computation, 2013, 223, 476-482.	1.4	6
80	Analyzing coastal environments by means of functional data analysis. Sedimentary Geology, 2017, 357, 99-108.	1.0	6
81	GEOCHEMICAL EVALUATION OF CRUDE OILS FROM THE CARACARA AND TIPLE AREAS, EASTERN LLANOS BASIN, COLOMBIA: PALAEO BIODEGRADATION AND OIL MIXING. Journal of Petroleum Geology, 2018, 41, 113-134.	0.9	6
82	Reuse of Dunite Mining Waste and Subproducts for the Stabilization of Metal(oid)s in Polluted Soils. Minerals (Basel, Switzerland), 2019, 9, 481.	0.8	6
83	Nanomaterials for soil remediation: Pollutant immobilization and opportunities for hybrid technologies. , 2021, , 701-723.		6
84	Comparison of the effectiveness of biochar vs. magnesite amendments to immobilize metals and restore a polluted soil. Environmental Geochemistry and Health, 2021, 43, 5053-5064.	1.8	5
85	Impact of Old Pb Mining and Metallurgical Production in Soils from the Linares Mining District (Spain). Environments - MDPI, 2022, 9, 24.	1.5	5
86	Functional outlier detection in grain-size distribution curves of detrital sediments. Sedimentary Geology, 2013, 297, 31-37.	1.0	4
87	Environmental Forensics Study of Crude Oil and Petroleum Product Spills in Coastal and Oilfield Settings. , 2018, , 131-155.		4
88	Goethite-based carbon foam nanocomposites for concurrently immobilizing arsenic and metals in polluted soils. Chemosphere, 2022, 301, 134645.	4.2	4
89	Antagonistic Cd and Zn isotope behavior in the extracted soil fractions from industrial areas. Journal of Hazardous Materials, 2022, 439, 129519.	6.5	4
90	Geochemistry and chemostratigraphy of the ColÃ³n-Mito Juan units (Campanian-Maastrichtian), Venezuela: Implications for provenance, depositional conditions, and stratigraphic subdivision. Geochemical Journal, 2013, 47, 537-546.	0.5	3

#	Article	IF	Citations
91	Environmental Forensic Study and Remediation Feasibility in an Abandoned Industrial Site. Proceedings (mdpi), 2018, 2, 1503.	0.2	3
92	GEOCHEMICAL COMPOSITION OF BEACH TAR FROM THE SE COAST OF THE PARIA PENINSULA, NE VENEZUELA: DERIVATION FROM NATURAL SEEPAGES. Journal of Petroleum Geology, 2013, 36, 179-193.	0.9	2
93	Contrasting mobility of arsenic and copper in a mining soil: A comparative column leaching and pot testing approach. Journal of Environmental Management, 2022, 318, 115530.	3.8	2
94	Environmental Threats of Ancient Pb Mining and Metallurgical Activities in the Linares Mining District (Southern Spain). Proceedings (mdpi), 2018, 2, 1459.	0.2	1
95	On Site Bioremediation and Washing Techniques in a Cobble Beach Affected by Prestige Oil Spill. , 0, , 556-560.		0
96	Bioremediation of Petroleum Hydrocarbons in Cold Regions - Edited by Dennis M Filler, Ian Snape and David L Barnes. Geographical Journal, 2009, 175, 323-323.	1.6	0
97	Mineral Processing Technologies for the Remediation of Soils Polluted by Trace Elements. Proceedings (mdpi), 2018, 2, 1458.	0.2	0
98	Co-occurrence of Organic and Inorganic Contaminants in Former Hg-As Mining Sites. , 2019, , .		0