

Jos R Gallego

List of Publications by Citations

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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.

96
papers

2,328
citations

31
h-index

45
g-index

101
ext. papers

2,786
ext. citations

6.7
avg, IF

5.29
L-index

#	Paper	IF	Citations
96	Bioremediation of diesel-contaminated soils: evaluation of potential in situ techniques by study of bacterial degradation. <i>Biodegradation</i> , 2001 , 12, 325-35	4.1	169
95	Investigation of trace element sources from an industrialized area (Avilés, northern Spain) using multivariate statistical methods. <i>Environment International</i> , 2002 , 27, 589-96	12.9	115
94	Metaproteogenomic insights beyond bacterial response to naphthalene exposure and bio-stimulation. <i>ISME Journal</i> , 2013 , 7, 122-36	11.9	92
93	A nanoremediation strategy for the recovery of an As-polluted soil. <i>Chemosphere</i> , 2016 , 149, 137-45	8.4	79
92	Phytoremediation capability of native plant species living on Pb-Zn and Hg-As mining wastes in the Cantabrian range, north of Spain. <i>Journal of Geochemical Exploration</i> , 2017 , 174, 10-20	3.8	78
91	Use of Endophytic and Rhizosphere Bacteria To Improve Phytoremediation of Arsenic-Contaminated Industrial Soils by Autochthonous <i>Betula celtiberica</i> . <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	77
90	Geochemical characterisation of mercury mining spoil heaps in the area of Mieres (Asturias, northern Spain). <i>Journal of Geochemical Exploration</i> , 1999 , 67, 377-390	3.8	77
89	Comparing different commercial zero valent iron nanoparticles to immobilize As and Hg in brownfield soil. <i>Science of the Total Environment</i> , 2017 , 584-585, 1324-1332	10.2	74
88	Microbial stratification in low pH oxic and suboxic macroscopic growths along an acid mine drainage. <i>ISME Journal</i> , 2014 , 8, 1259-74	11.9	63
87	Biodegradation of oil tank bottom sludge using microbial consortia. <i>Biodegradation</i> , 2007 , 18, 269-81	4.1	61
86	Palaeoenvironmental reconstruction of Northern Spain during the last 8000 cal yr BP based on the biomarker content of the Roñanzas peat bog (Asturias). <i>Organic Geochemistry</i> , 2010 , 41, 454-466	3.1	60
85	Nanoremediation of As and metals polluted soils by means of graphene oxide nanoparticles. <i>Scientific Reports</i> , 2020 , 10, 1896	4.9	55
84	Human health risk assessment in restoring safe and productive use of abandoned contaminated sites. <i>Environment International</i> , 2016 , 94, 436-448	12.9	55
83	Bacterial, Archaeal, and Eukaryotic Diversity across Distinct Microhabitats in an Acid Mine Drainage. <i>Frontiers in Microbiology</i> , 2017 , 8, 1756	5.7	55
82	n-Alkan-2-ones in peat-forming plants from the Roñanzas ombrotrophic bog (Asturias, northern Spain). <i>Organic Geochemistry</i> , 2011 , 42, 586-592	3.1	51
81	An assessment of the environmental fate of mercury species in highly polluted brownfields by means of thermal desorption. <i>Journal of Hazardous Materials</i> , 2017 , 325, 1-7	12.8	50
80	Multivariate study of trace element distribution in the geological record of Roñanzas Peat Bog (Asturias, N. Spain). Paleoenvironmental evolution and human activities over the last 8000 calyr BP. <i>Science of the Total Environment</i> , 2013 , 454-455, 16-29	10.2	50

79	Zero valent iron and goethite nanoparticles as new promising remediation techniques for As-polluted soils. <i>Chemosphere</i> , 2020 , 238, 124624	8.4	50
78	Natural attenuation and bioremediation of Prestige fuel oil along the Atlantic coast of Galicia (Spain). <i>Organic Geochemistry</i> , 2006 , 37, 1869-1884	3.1	47
77	Comprehensive waste characterization and organic pollution co-occurrence in a Hg and As mining and metallurgy brownfield. <i>Journal of Hazardous Materials</i> , 2015 , 300, 561-571	12.8	46
76	Engineered in situ bioremediation of soil and groundwater polluted with weathered hydrocarbons. <i>European Journal of Soil Biology</i> , 2007 , 43, 310-321	2.9	45
75	Feasibility study on the use of soil washing to remediate the As-Hg contamination at an ancient mining and metallurgy area. <i>Journal of Hazardous Materials</i> , 2011 , 196, 93-100	12.8	42
74	Analysis of soil washing effectiveness to remediate a brownfield polluted with pyrite ashes. <i>Journal of Hazardous Materials</i> , 2010 , 180, 602-8	12.8	40
73	Photodegradation of polycyclic aromatic hydrocarbons in fossil fuels catalysed by supported TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2006 , 67, 279-289	21.8	40
72	Nanoremediation and long-term monitoring of brownfield soil highly polluted with As and Hg. <i>Science of the Total Environment</i> , 2019 , 675, 165-175	10.2	38
71	Nanoscale zero-valent iron-assisted soil washing for the removal of potentially toxic elements. <i>Journal of Hazardous Materials</i> , 2018 , 350, 55-65	12.8	34
70	Long-term ongoing impact of arsenic contamination on the environmental compartments of a former mining-metallurgy area. <i>Science of the Total Environment</i> , 2018 , 610-611, 820-830	10.2	34
69	Trace elements of concern affecting urban agriculture in industrialized areas: A multivariate approach. <i>Chemosphere</i> , 2017 , 183, 546-556	8.4	32
68	Insights into a 20-ha multi-contaminated brownfield megasite: An environmental forensics approach. <i>Science of the Total Environment</i> , 2016 , 563-564, 683-92	10.2	31
67	Design and field-scale implementation of an "on site" bioremediation treatment in PAH-polluted soil. <i>Environmental Pollution</i> , 2013 , 181, 190-9	9.3	31
66	Nanofiltration of Acid Mine Drainage in an Abandoned Mercury Mining Area. <i>Water, Air, and Soil Pollution</i> , 2013 , 224, 1	2.6	31
65	Developing a new Bayesian Risk Index for risk evaluation of soil contamination. <i>Science of the Total Environment</i> , 2017 , 603-604, 167-177	10.2	26
64	Magnetite nanoparticles for the remediation of soils co-contaminated with As and PAHs. <i>Chemical Engineering Journal</i> , 2020 , 399, 125809	14.7	26
63	Soil washing optimization by means of attributive analysis: Case study for the removal of potentially toxic elements from soil contaminated with pyrite ash. <i>Journal of Cleaner Production</i> , 2017 , 142, 2693-2699	10.3	24
62	Full-Scale Remediation of a Jet Fuel-Contaminated Soil: Assessment of Biodegradation, Volatilization, and Bioavailability. <i>Water, Air, and Soil Pollution</i> , 2011 , 217, 197-211	2.6	24

61	Bioremediation for Shoreline Cleanup: In Situ vs. On-Site Treatments. <i>Environmental Engineering Science</i> , 2007 , 24, 493-504	2	22
60	Origin, patterns and anthropogenic accumulation of potentially toxic elements (PTEs) in surface sediments of the Avilés estuary (Asturias, northern Spain). <i>Marine Pollution Bulletin</i> , 2014 , 86, 530-538	6.7	21
59	Optimisation of magnetic separation: a case study for soil washing at a heavy metals polluted site. <i>Chemosphere</i> , 2014 , 107, 290-296	8.4	21
58	High intensity magnetic separation for the clean-up of a site polluted by lead metallurgy. <i>Journal of Hazardous Materials</i> , 2013 , 248-249, 194-201	12.8	21
57	Biomarkers and inorganic proxies in the paleoenvironmental reconstruction of mires: The importance of landscape in Las Conchas (Asturias, Northern Spain). <i>Organic Geochemistry</i> , 2016 , 95, 41-54	3.1	17
56	Optimization of Landfarming Amendments Based on Soil Texture and Crude Oil Concentration. <i>Water, Air, and Soil Pollution</i> , 2018 , 229, 1	2.6	16
55	Pyrolysis GCMS for the rapid environmental forensic screening of contaminated brownfield soil. <i>Organic Geochemistry</i> , 2015 , 87, 9-20	3.1	15
54	Arsenic release from pyrite ash waste over an active hydrogeological system and its effects on water quality. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 10672-10684	5.1	15
53	A coupled multivariate statistics, geostatistical and machine-learning approach to address soil pollution in a prototypical Hg-mining site in a natural reserve. <i>Chemosphere</i> , 2019 , 218, 767-777	8.4	15
52	Combining raw and compositional data to determine the spatial patterns of Potentially Toxic Elements in soils. <i>Science of the Total Environment</i> , 2018 , 631-632, 1117-1126	10.2	14
51	Weathering processes only partially limit the potential for bioremediation of hydrocarbon-contaminated soils. <i>Organic Geochemistry</i> , 2010 , 41, 896-900	3.1	14
50	Bioaugmentation Treatment of a PAH-Polluted Soil in a Slurry Bioreactor. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2837	2.6	13
49	CRUDE OIL BIODEGRADATION AND ENVIRONMENTAL FACTORS AT THE RIUTORT OIL SHALE MINE, SE PYRENEES. <i>Journal of Petroleum Geology</i> , 2010 , 33, 123-139	1.9	12
48	Application of biochar, compost and ZVI nanoparticles for the remediation of As, Cu, Pb and Zn polluted soil. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 33681-33691	5.1	11
47	Intra- and inter-field compositional changes of oils from the Misoa B4 reservoir in the Ceuta Southeast Area (Lake Maracaibo, Venezuela). <i>Fuel</i> , 2016 , 167, 118-134	7.1	11
46	Environmental forensic characterization of former rail yard soils located adjacent to the Statue of Liberty in the New York/New Jersey harbor. <i>Science of the Total Environment</i> , 2019 , 690, 1019-1034	10.2	11
45	Geochemical study of a mining-metallurgy site polluted with As and Hg and the transfer of these contaminants to Equisetum sp. <i>Journal of Geochemical Exploration</i> , 2017 , 182, 1-9	3.8	11
44	Diagnostic ratios for the rapid evaluation of natural attenuation of heavy fuel oil pollution along shores. <i>Chemosphere</i> , 2017 , 184, 1089-1098	8.4	11

43	Compositional variability in oils and formation waters from the Ayoluengo and Hontom̃ fields (Burgos, Spain). Implications for assessing biodegradation and reservoir compartmentalization. <i>Organic Geochemistry</i> , 2013 , 54, 125-139	3.1	11
42	A multi-faceted, environmental forensic characterization of a paradigmatic brownfield polluted by hazardous waste containing Hg, As, PAHs and dioxins. <i>Science of the Total Environment</i> , 2020 , 726, 138546	10.2	10
41	A multivariate examination of the timing and accumulation of potentially toxic elements at Las Conchas bog (NW Spain). <i>Environmental Pollution</i> , 2019 , 254, 113048	9.3	9
40	Environmental forensics of complexly contaminated sites: A complimentary fingerprinting approach. <i>Environmental Pollution</i> , 2020 , 263, 114645	9.3	8
39	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). <i>Journal of Geochemical Exploration</i> , 2020 , 208, 106397	3.8	8
38	Effects of Remediation With Nanoscale Zero Valence Iron on the Physicochemical Conditions and Bacterial Communities of Groundwater Contaminated With Arsenic. <i>Frontiers in Microbiology</i> , 2021 , 12, 643589	5.7	8
37	Local versus Regional Soil Screening Levels to Identify Potentially Polluted Areas. <i>Mathematical Geosciences</i> , 2020 , 52, 381-396	2.5	8
36	Enhanced Soil Washing for the Remediation of a Brownfield Polluted by Pyrite Ash. <i>Soil and Sediment Contamination</i> , 2017 , 26, 377-390	3.2	7
35	Benzo[a]pyrene sourcing and abundance in a coal region in transition reveals historical pollution, rendering soil screening levels impractical. <i>Environmental Pollution</i> , 2020 , 266, 115341	9.3	7
34	Element enrichment factor calculation using grain-size distribution and functional data regression. <i>Chemosphere</i> , 2015 , 119, 1192-1199	8.4	6
33	Assessment of mercury pollution sources in beach sand and coastal soil by speciation analysis. <i>Environmental Sciences Europe</i> , 2019 , 31,	5	6
32	Contribution of fluorite mining waste to mercury contamination in coastal systems. <i>Marine Pollution Bulletin</i> , 2019 , 149, 110576	6.7	5
31	Analyzing coastal environments by means of functional data analysis. <i>Sedimentary Geology</i> , 2017 , 357, 99-108	2.8	4
30	Effects of Different In Situ Remediation Strategies for an As-Polluted Soil on Human Health Risk, Soil Properties, and Vegetation. <i>Agronomy</i> , 2020 , 10, 759	3.6	4
29	Functional data analysis as a tool to correlate textural and geochemical data. <i>Applied Mathematics and Computation</i> , 2013 , 223, 476-482	2.7	4
28	Using gas geochemistry to delineate structural compartments and assess petroleum reservoir-filling directions: A Venezuelan case study. <i>Journal of South American Earth Sciences</i> , 2013 , 43, 1-7	2	4
27	Functional outlier detection in grain-size distribution curves of detrital sediments. <i>Sedimentary Geology</i> , 2013 , 297, 31-37	2.8	4
26	A holistic methodology to study geochemical and geomorphological control of the distribution of potentially toxic elements in soil. <i>Catena</i> , 2022 , 208, 105730	5.8	4

25	GEOCHEMICAL EVALUATION OF CRUDE OILS FROM THE CARACARA AND TIPLE AREAS, EASTERN LLANOS BASIN, COLOMBIA: PALAEO BIODEGRADATION AND OIL MIXING. <i>Journal of Petroleum Geology</i> , 2018 , 41, 113-134	1.9	3
24	Geochemistry and chemostratigraphy of the ColĪ-Mito Juan units (Campanian-Maastrichtian), Venezuela: Implications for provenance, depositional conditions, and stratigraphic subdivision. <i>Geochemical Journal</i> , 2013 , 47, 537-546	0.9	3
23	Environmental Forensic Study and Remediation Feasibility in an Abandoned Industrial Site. <i>Proceedings (mdpi)</i> , 2018 , 2, 1503	0.3	3
22	Short-term experiment for the in situ stabilization of a polluted soil using mining and biomass waste. <i>Journal of Environmental Management</i> , 2021 , 296, 113179	7.9	3
21	Reuse of Dunite Mining Waste and Subproducts for the Stabilization of Metal(oid)s in Polluted Soils. <i>Minerals (Basel, Switzerland)</i> , 2019 , 9, 481	2.4	2
20	GEOCHEMICAL COMPOSITION OF BEACH TAR FROM THE SE COAST OF THE PARIA PENINSULA, NE VENEZUELA: DERIVATION FROM NATURAL SEEPAGES. <i>Journal of Petroleum Geology</i> , 2013 , 36, 179-193	1.9	2
19	Multiple pollution sources unravelled by environmental forensics techniques and multivariate statistics. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127413	12.8	2
18	Correlation between Geochemical and Multispectral Patterns in an Area Severely Contaminated by Former Hg-As Mining. <i>ISPRS International Journal of Geo-Information</i> , 2020 , 9, 739	2.9	2
17	As sorption onto Fe-based nanoparticles and recovery from soils by means of wet high intensity magnetic separation. <i>Chemical Engineering Journal</i> , 2021 , 408, 127325	14.7	2
16	Phytoremediation Potential of Native Herbaceous Plant Species Growing on a Paradigmatic Brownfield Site. <i>Water, Air, and Soil Pollution</i> , 2021 , 232, 1	2.6	2
15	Zero valent iron nanoparticles and organic fertilizer assisted phytoremediation in a mining soil: Arsenic and mercury accumulation and effects on the antioxidative system of <i>Medicago sativa</i> L.. <i>Journal of Hazardous Materials</i> , 2022 , 433, 128748	12.8	2
14	Environmental Effects of the Application of Iron Nanoparticles for Site Remediation 2018 , 283-307		1
13	Compositional baseline assessments to address soil pollution: An application in Langreo, Spain.. <i>Science of the Total Environment</i> , 2021 , 812, 152383	10.2	1
12	Comparison of the effectiveness of biochar vs. magnesite amendments to immobilize metals and restore a polluted soil. <i>Environmental Geochemistry and Health</i> , 2021 , 43, 5053-5064	4.7	1
11	Environmental Threats of Ancient Pb Mining and Metallurgical Activities in the Linares Mining District (Southern Spain). <i>Proceedings (mdpi)</i> , 2018 , 2, 1459	0.3	1
10	Environmental Forensics Study of Crude Oil and Petroleum Product Spills in Coastal and Oilfield Settings: Combined Insights From Conventional GCMS, ThermodesorptionGCMS, and PyrolysisGCMS 2018 , 131-155		1
9	Screening of Pioneer Metallophyte Plant Species with Phytoremediation Potential at a Severely Contaminated Hg and As Mining Site. <i>Environments - MDPI</i> , 2021 , 8, 63	3.2	1
8	Nanomaterials for soil remediation: Pollutant immobilization and opportunities for hybrid technologies 2021 , 701-723		1

7	Impact of Old Pb Mining and Metallurgical Production in Soils from the Linares Mining District (Spain). <i>Environments - MDPI</i> , 2022 , 9, 24	3.2	o
6	Goethite-based carbon foam nanocomposites for concurrently immobilizing arsenic and metals in polluted soils.. <i>Chemosphere</i> , 2022 , 134645	8.4	o
5	Interplay between arsenic and selenium biomineralization in <i>Shewanella</i> sp. O23S.. <i>Environmental Pollution</i> , 2022 , 119451	9.3	o
4	Bioremediation of Petroleum Hydrocarbons in Cold Regions [Edited by Dennis M Filler, Ian Snape and David L Barnes. <i>Geographical Journal</i> , 2009 , 175, 323-323	2.2	
3	On Site Bioremediation and Washing Techniques in a Cobble Beach Affected by Prestige Oil Spill556-560		
2	Oleophilic Fertilizers and Bioremediation: A New Perspective551-555		
1	Mineral Processing Technologies for the Remediation of Soils Polluted by Trace Elements. <i>Proceedings (mdpi)</i> , 2018 , 2, 1458	0.3	