

Jaume Bech

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.

68

papers

1,255

citations

23

h-index

33

g-index

93

ext. papers

1,433

ext. citations

4

avg, IF

4.56

L-index

#	Paper	IF	Citations
68	Arsenic and heavy metal contamination of soil and vegetation around a copper mine in Northern Peru. <i>Science of the Total Environment</i> , 1997 , 203, 83-91	10.2	149
67	Copper in plant species in a copper gradient in Catalonia (North East Spain) and their potential for phytoremediation. <i>Plant and Soil</i> , 2001 , 230, 247-256	4.2	69
66	Rock fragments and soil hydrological processes: Significance and progress. <i>Catena</i> , 2016 , 147, 153-166	5.8	63
65	Accumulation of Pb and Zn in <i>Bidens triplinervia</i> and <i>Senecio</i> sp. spontaneous species from mine spoils in Peru and their potential use in phytoremediation. <i>Journal of Geochemical Exploration</i> , 2012 , 123, 109-113	3.8	56
64	Shoot accumulation of several trace elements in native plant species from contaminated soils in the Peruvian Andes. <i>Journal of Geochemical Exploration</i> , 2012 , 113, 106-111	3.8	53
63	Trace elements in natural surface soils in Sant Climent (Catalonia, Spain). <i>Ecological Engineering</i> , 2006 , 27, 145-152	3.9	50
62	Trace element accumulation in plants from an aridic area affected by mining activities. <i>Journal of Geochemical Exploration</i> , 2012 , 123, 8-12	3.8	46
61	Distribution and bioaccumulation of arsenic and antimony in <i>Dittrichia viscosa</i> growing in mining-affected semiarid soils in southeast Spain. <i>Journal of Geochemical Exploration</i> , 2012 , 123, 128-135	3.8	44
60	Concentrations of heavy metals in urban soils of Talcahuano (Chile): a preliminary study. <i>Environmental Monitoring and Assessment</i> , 2008 , 140, 91-8	3.1	43
59	Screening for new accumulator plants in potential hazards elements polluted soil surrounding Peruvian mine tailings. <i>Catena</i> , 2016 , 136, 66-73	5.8	38
58	Baseline concentrations of trace elements in surface soils of the Torrelles and Sant Climent Municipal Districts (Catalonia, Spain). <i>Environmental Monitoring and Assessment</i> , 2005 , 108, 309-22	3.1	37
57	Environmental impact of disposal of coal mining wastes on soils and plants in Rostov Oblast, Russia. <i>Journal of Geochemical Exploration</i> , 2018 , 184, 261-270	3.8	29
56	Antimony accumulation and toxicity tolerance mechanisms in <i>Trifolium</i> species. <i>Journal of Geochemical Exploration</i> , 2014 , 147, 167-172	3.8	29
55	Concentration and distribution of twelve metals in Central Catalonia surface soils. <i>Journal of Geochemical Exploration</i> , 2011 , 109, 92-103	3.8	29
54	Trace element concentrations in schoolyard soils from the port city of Talcahuano, Chile. <i>Journal of Geochemical Exploration</i> , 2014 , 147, 229-236	3.8	26
53	Geochemical characterisation of surface waters, topsoils and efflorescences in a historic metal-mining area in Spain. <i>Journal of Soils and Sediments</i> , 2016 , 16, 1238-1252	3.4	25
52	Background levels of potentially toxic elements in soils: A case study in Catamarca (a semiarid region in Argentina). <i>Catena</i> , 2012 , 92, 55-66	5.8	25

51	Sources analysis and health risk assessment of trace elements in urban soils of Hualpen, Chile. <i>Catena</i> , 2019 , 175, 304-316	5.8	25
50	Distinguishing between natural and anthropogenic sources for potentially toxic elements in urban soils of Talcahuano, Chile. <i>Journal of Soils and Sediments</i> , 2018 , 18, 2335-2349	3.4	24
49	Cesium-137 contamination of oak (<i>Quercus petrae</i> Liebl.) from sub-mediterranean zone in South Bulgaria. <i>Journal of Environmental Radioactivity</i> , 2010 , 101, 864-8	2.4	24
48	Spatial distribution of potentially harmful elements in urban soils, city of Talcahuano, Chile. <i>Journal of Geochemical Exploration</i> , 2018 , 184, 333-344	3.8	23
47	Screening of wild plants for use in the phytoremediation of mining-influenced soils containing arsenic in semiarid environments. <i>Journal of Soils and Sediments</i> , 2014 , 14, 794-809	3.4	23
46	Cs-137 distribution in forest floor and surface soil layers from two mountainous regions in Bulgaria. <i>Journal of Geochemical Exploration</i> , 2008 , 96, 256-266	3.8	23
45	Concentrations and distributions of Ba, Cr, Sr, V, Al, and Fe in Torrelles soil profiles (Catalonia, Spain). <i>Journal of Geochemical Exploration</i> , 2008 , 96, 94-105	3.8	21
44	An assessment of the potentially hazardous element contamination in urban soils of Arica, Chile. <i>Journal of Geochemical Exploration</i> , 2018 , 184, 345-357	3.8	20
43	Selenium and other trace elements in phosphate rock of BayovarBechura (Peru). <i>Journal of Geochemical Exploration</i> , 2010 , 107, 136-145	3.8	19
42	Fractionation of chromium in tannery sludge-amended soil and its availability to fenugreek plants. <i>Journal of Soils and Sediments</i> , 2014 , 14, 697-702	3.4	17
41	Assessment of the Heavy Metal Pollution Effects on the Soil Respiration in the Baix Llobregat (Catalonia, NE Spain). <i>Environmental Monitoring and Assessment</i> , 2000 , 61, 301-313	3.1	17
40	Metal uptake by wetland plants: implications for phytoremediation and restoration. <i>Journal of Soils and Sediments</i> , 2017 , 17, 1384-1393	3.4	16
39	The relationship between WRB soil units and heavy metals content in soils of Catamarca (Argentina). <i>Journal of Geochemical Exploration</i> , 2008 , 96, 77-85	3.8	14
38	A comparative study of the accumulation of trace elements in Brassicaceae plant species with phytoremediation potential. <i>Applied Geochemistry</i> , 2019 , 108, 104377	3.5	13
37	Technosols designed for rehabilitation of mining activities using mine spoils and biosolids. Ion mobility and correlations using percolation columns. <i>Catena</i> , 2017 , 148, 74-80	5.8	12
36	Study on the mobility and bioavailability of PTEs in soils from Urban Forest Parks in Sofia, Bulgaria. <i>Journal of Geochemical Exploration</i> , 2014 , 147, 222-228	3.8	12
35	Concentration of Cd, Cu, Pb, Zn, Al, and Fe in soils of Manresa, NE Spain. <i>Environmental Monitoring and Assessment</i> , 2008 , 145, 257-66	3.1	12
34	Are Mediterranean mountains Entisols weakly developed? The case of Orthents from Sierra Nevada (Southern Spain). <i>Geoderma</i> , 2004 , 118, 115-131	6.7	12

33	Study of subsoil in former petrol stations in SE of Spain: Physicochemical characterization and hydrocarbon contamination assessment. <i>Journal of Geochemical Exploration</i> , 2014 , 147, 306-320	3.8	10
32	Ecological risk assessment of mercury and chromium in greenhouse soils. <i>Environmental Geochemistry and Health</i> , 2020 , 42, 313-324	4.7	10
31	Baseline Concentrations of Potentially Toxic Elements in Natural Surface Soils in Torrelles (Spain). <i>Environmental Forensics</i> , 2006 , 7, 369-375	1.6	9
30	Soil Pollution and Reclamation. <i>Journal of Geochemical Exploration</i> , 2014 , 147, 77-79	3.8	7
29	Levels and pedogeochemical mapping of lead and chromium in soils of Barcelona province (NE Spain). <i>Journal of Geochemical Exploration</i> , 2011 , 109, 104-112	3.8	7
28	Remediation of Potentially Toxic Elements in Contaminated Soils 2014 , 253-308		6
27	The influence of the industrial area on the pollution outside its borders: a case study from Quintero and Puchuncavi districts, Chile. <i>Environmental Geochemistry and Health</i> , 2020 , 42, 2557-2572	4.7	6
26	Estimation of the Soil Respiration Using the Constant Pressure Volumetric Respirometer and the Flow-Through Respirometer UNI-RES10. <i>Environmental Monitoring and Assessment</i> , 2000 , 64, 583-590	3.1	5
25	Potential Hazardous Elements Fluxes from Soil to Plants and the Food Chain 2014 , 309-337		5
24	Urban areas, human health and technosols for the green deal. <i>Environmental Geochemistry and Health</i> , 2021 , 43, 5065-5086	4.7	5
23	Potentially harmful elements in soil-plant interactions. <i>Journal of Soils and Sediments</i> , 2014 , 14, 651-654	3.4	3
22	Ecoefficient In Situ Technologies for the Remediation of Sites Affected by Old Mining Activities: The Case of Portman Bay 2017 , 355-373		3
21	Hazardous Element Accumulation in Soils and Native Plants in Areas Affected by Mining Activities in South America 2017 , 419-461		3
20	Trace elements in soils: Baseline levels and imbalance. <i>Journal of Geochemical Exploration</i> , 2008 , 96, vii-viii		3
19	Accumulation of potentially toxic elements by plants of North Caucasian Alyssum species and their molecular phylogenetic analysis. <i>Environmental Geochemistry and Health</i> , 2021 , 43, 1617-1628	4.7	3
18	Environmental consequences from the use of sewage sludge in soil restoration related to microbiological pollution. <i>Journal of Soils and Sediments</i> , 2018 , 18, 2172-2178	3.4	3
17	Potential bioavailability assessment and distribution of heavy metal(oids) in cores from Portman Bay (SE, Spain). <i>Geochemistry: Exploration, Environment, Analysis</i> , 2019 , 19, 193-200	1.8	2
16	Complex Characteristic of Zircon from Granitoids of the Verkhneurmiysky Massif (Amur Region). <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 86	2.4	2

15	Reclamation and management of polluted soils: options and case studies. <i>Journal of Soils and Sediments</i> , 2018 , 18, 2131-2135	3.4	1
14	A study of trace elements in plants of the Polar Urals and Chukotka in the search for metallophyte hyperaccumulators. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2019 , 19, 138-145	1.8	1
13	Preface special issue CATENA: Reclamation of mining site soils, part II. <i>Catena</i> , 2017 , 148, 1-2	5.8	1
12	Environmental Risk Assessment of Tailings Ponds Using Geophysical and Geochemical Techniques 2017 , 135-148		1
11	Availability of cu and zn to plants growing on and off a malachite site. <i>Toxicological and Environmental Chemistry</i> , 1995 , 52, 143-151	1.4	1
10	Element Accumulation Patterns of Native Plant Species under the Natural Geochemical Stress. <i>Plants</i> , 2020 , 10,	4.5	1
9	Phytoremediation of potentially toxic elements using constructed wetlands in coastal areas with a mining influence. <i>Environmental Geochemistry and Health</i> , 2021 , 43, 1385-1400	4.7	1
8	Assessment and abatement of the eco-risk caused by mine spoils in the dry subtropical climate. <i>Environmental Geochemistry and Health</i> , 2021 , 1	4.7	1
7	Research of reclamation of polluted mine soils by native metallophytes: some cases. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2019 , 19, 164-170	1.8	1
6	Relationship of the mobile forms of calcium and strontium in soils with their accumulation in meadow plants in the area of Kashin-Beck endemia. <i>Environmental Geochemistry and Health</i> , 2020 , 42, 159-171	4.7	1
5	Rehabilitation of Disturbed Lands with Industrial Wastewater Sludge. <i>Minerals (Basel, Switzerland)</i> , 2022 , 12, 376	2.4	1
4	Proposals for the Remediation of Soils Affected by Mining Activities in Southeast Spain 2017 , 297-328		0
3	Trace element accumulation by soils and plants in the North Caucasian geochemical province. <i>Journal of Mining Institute</i> , 2017 , 1-13	3	0
2	Heavy metal pollution index calculation in geochemistry assessment: a case study on Playa Las Petroleras.. <i>Environmental Geochemistry and Health</i> , 2022 , 1	4.7	0
1	Special Issue APGEO: "Soil pollution and reclamation as a geochemical problem Part 2". <i>Applied Geochemistry</i> , 2020 , 113, 104498	3.5	