Jacinto Alonso-AzcÃ¡rate

List of Publications by Year
in descending order

74 papers	2,325 citations	218677 26 h-index	223800 46 g-index
74 all docs	74 docs citations	74 times ranked	2513 citing authors

#	Article	IF	Citations
1	Heavy metal distribution and chemical speciation in tailings and soils around a Pbâ€“Zn mine in Spain. Journal of Environmental Management, 2009, 90, 1106-1116.	7.8	541
2	Characterization of lightweight aggregates manufactured from washing aggregate sludge and fly ash. Resources, Conservation and Recycling, 2009, 53, 571-581.	10.8	96
3	Production of lightweight aggregates from mining and industrial wastes. Journal of Environmental Management, 2009, 90, 2801-2812.	7.8	90
4	What is clay? A new definition of â€œclayâ€•based on plasticity and its impact on the most widespread soil classification systems. Applied Clay Science, 2018, 161, 57-63.	5.2	75
5	Microstructure and mineralogy of lightweight aggregates manufactured from mining and industrial wastes. Construction and Building Materials, 2011, 25, 3591-3602.	7.2	60
6	Sandstone Petrography of Continental Depositional Sequences of an Intraplate Rift Basin: Western Cameros Basin (North Spain). Journal of Sedimentary Research, 2003, 73, 309-327.	1.6	59
7	Microstructure and mineralogy of lightweight aggregates produced from washing aggregate sludge, fly ash and used motor oil. Cement and Concrete Composites, 2010, 32, 694-707.	10.7	58
8	Tsunami vs. storm surge deposits: a review of the sedimentological and geomorphological records of extreme wave events (EWE) during the Holocene in the Gulf of Cadiz, Spain. Zeitschrift FÃ¼r Geomorphologie, 2010, 54, 301-316.	0.8	57
9	Effect of prefiring and firing dwell times on the properties of artificial lightweight aggregates. Construction and Building Materials, 2014, 53, 91-101.	7.2	56
10	Adsorption behavior of toxic tributyltin to clayâ€rich sediments under various environmental conditions. Environmental Toxicology and Chemistry, 2002, 21, 1390-1397.	4.3	53
11	Assessment of adsorption behavior of dibutyltin (DBT) to clay-rich sediments in comparison to the highly toxic tributyltin (TBT). Environmental Pollution, 2003, 123, 217-227.	7.5	51
12	Valorization of washing aggregate sludge and sewage sludge for lightweight aggregates production. Construction and Building Materials, 2016, 116, 252-262.	7.2	50
13	Effects of earthworms on metal uptake of heavy metals from polluted mine soils by different crop plants. Chemosphere, 2009, 75, 1035-1041.	8.2	46
14	Effect of thermal treatment on the retention of chemical elements in the structure of lightweight aggregates manufactured from contaminated mine soil and fly ash. Construction and Building Materials, 2012, 35, 497-507.	7.2	46
15	Manufacturing of lightweight aggregates with carbon fiber and mineral wastes. Cement and Concrete Composites, 2017, 83, 335-348.	10.7	44
16	Lumbricus terrestris L. activity increases the availability of metals and their accumulation in maize and barley. Environmental Pollution, 2011, 159, 722-728.	7.5	39
17	Sulfur redox reactions and formation of native sulfur veins during low grade metamorphism of gypsum evaporites, Cameros Basin (NE Spain). Chemical Geology, 2001, 174, 389-402.	3.3	38
18	Synsedimentary versus metamorphic control of S, O and Sr isotopic compositions in gypsum evaporites from the Cameros Basin, Spain. Chemical Geology, 2006, 234, 46-57.	3.3	38

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19	Pathways and distances of fluid flow during low-grade metamorphism: evidence from pyrite deposits of the Cameros Basin, Spain. Journal of Metamorphic Geology, 1999, 17, 339-348.	3.4	37
20	Chlorite, Corrensite, and Chlorite-Mica in Late Jurassic Fluvio-Lacustrine Sediments of the Cameros Basin of Northeastern Spain. Clays and Clay Minerals, 2000, 48, 256-265.	1.3	33
21	Studying the feasibility of a selection of Southern European ceramic clays for the production of lightweight aggregates. Construction and Building Materials, 2020, 237, 117583.	7.2	32
22	Comparative study of the transition between very low-grade and low-grade metamorphism in siliciclastic and carbonate sediments: Early Cretaceous, Cameros Basin (northern Spain). Clay Minerals, 1995, 30, 407-419.	0.6	31
23	Causes of variation in crystal morphology in metamorphogenic pyrite deposits of the Cameros Basin (N Spain). Geological Journal, 2001, 36, 159-170.	1.3	29
24	Palaeogeographical significance of clay mineral assemblages in the Permian and Triassic sediments of the SE Iberian Ranges, eastern Spain. Palaeogeography, Palaeoclimatology, Palaeoecology, 1997, 136, 309-330.	2.3	26
25	Late Permian continental sediments in the SE Iberian Ranges, eastern Spain: Petrological and mineralogical characteristics and palaeoenvironmental significance. Palaeogeography, Palaeoclimatology, Palaeoecology, 2005, 229, 24-39.	2.3	26
26	UV to far-IR reflectance spectra of carbonaceous chondrites â€“ I. Implications for remote characterization of dark primitive asteroids targeted by sample-return missions. Monthly Notices of the Royal Astronomical Society, 2014, 437, 227-240.	4.4	26
27	Environmental geochemistry of a highly polluted area: The La Union Pbâ€“Zn mine (Castilla-La Mancha) Tj ETQq1 1 0.784314 rgBT /Over	3.2	26
28	Permian-Triassic Rifting Stage. Regional Geology Reviews, 2019, , 29-112.	1.2	26
29	Technological characterization and ceramic application of gravel pit by-products from middle-course Jarama river deposits (central Spain). Applied Clay Science, 2005, 28, 283-295.	5.2	25
30	PHYTOEXTRACTION OF METAL POLLUTED SOILS AROUND A Pb-Zn MINE BY CROP PLANTS. International Journal of Phytoremediation, 2009, 11, 360-384.	3.1	25
31	Performance of waste-based amendments to reduce metal release from mine tailings: One-year leaching behaviour. Journal of Environmental Management, 2018, 209, 1-8.	7.8	24
32	A study on the valorization of a metallic ore mining tailing and its combination with polymeric wastes for lightweight aggregates production. Journal of Cleaner Production, 2019, 212, 997-1007.	9.3	24
33	Plastic Limit and Other Consistency Parameters by a Bending Method and Interpretation of Plasticity Classification in Soils. Geotechnical Testing Journal, 2017, 40, 467-482.	1.0	24
34	The 2011 October Draconids outburst â€“ I. Orbital elements, meteoroid fluxes and 21P/Giacobiniâ€“Zinner delivered mass to Earth. Monthly Notices of the Royal Astronomical Society, 2013, 433, 560-570.	4.4	23
35	Unraveling the expansion mechanism in lightweight aggregates: Demonstrating that bloating barely requires gas. Construction and Building Materials, 2020, 247, 118583.	7.2	23
36	Review and critical examination of fine-grained soil classification systems based on plasticity. Applied Clay Science, 2021, 200, 105955.	5.2	22

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37	Potentially harmful elements in soils and holm-oak trees (Quercus ilex L.) growing in mining sites at the Valle de Alcudia Pb-Zn district (Spain)â€“Some clues on plant metal uptake. Journal of Geochemical Exploration, 2017, 182, 166-179.	3.2	21
38	Assessment of crystalline phase changes and glass formation by Rietveld-XRD method on ceramic lightweight aggregates sintered from mineral and polymeric wastes. Ceramics International, 2018, 44, 11840-11851.	4.8	20
39	An accurate, quick and simple method to determine the plastic limit and consistency changes in all types of clay and soil: The thread bending test. Applied Clay Science, 2015, 114, 497-508.	5.2	19
40	Clay diagenesis and low-grade metamorphism of Tithonian and Berriasian sediments in the Cameros Basin (Spain). Clay Minerals, 2001, 36, 325-333.	0.6	17
41	Development and use of in situ laser sulfur isotope analyses for pyrite-anhydrite geothermometry: An example from the pyrite deposits of the Cameros Basin, NE Spain. Geochimica Et Cosmochimica Acta, 1999, 63, 509-513.	3.9	16
42	Manufacturing of lightweight aggregates from biomass fly ash, beer bagasse, Zn-rich industrial sludge and clay by slow firing. Journal of Environmental Management, 2019, 246, 785-795.	7.8	16
43	Palaeoenvironmental implications of aluminium phosphate-sulphate minerals in Earlyâ€“Middle Triassic continental sediments, SE Iberian Range (Spain). Sedimentary Geology, 2013, 289, 169-181.	2.1	14
44	Quantifying aluminium phosphateâ€“sulphate minerals as markers of acidic conditions during the Permianâ€“Triassic transition in the Iberian Ranges, E Spain. Chemical Geology, 2016, 429, 10-20.	3.3	14
45	Development of lightweight aggregates from stone cutting sludge, plastic wastes and sepiolite rejections for agricultural and environmental purposes. Journal of Environmental Management, 2017, 200, 229-242.	7.8	14
46	Petrographic and geochemical evidence for multiphase formation of carbonates in the Martian orthopyroxenite Allan Hills 84001. Meteoritics and Planetary Science, 2017, 52, 1030-1047.	1.6	13
47	Analysis of potential direct insolation as a degradation factor of cave paintings in Villar del Humo, Cuenca, Central Spain. Geoarchaeology - an International Journal, 2009, 24, 450-465.	1.5	12
48	Chemical partitioning in lightweight aggregates manufactured from washing aggregate sludge, fly ash and used motor oil. Journal of Environmental Management, 2012, 109, 43-53.	7.8	12
49	Chemical and plant tests to assess the viability of amendments to reduce metal availability in mine soils and tailings. Environmental Science and Pollution Research, 2016, 23, 6046-6054.	5.3	12
50	Does environmental risk really change in abandoned mining areas in the medium term when no control measures are taken?. Chemosphere, 2022, 291, 133129.	8.2	12
51	EDTA and hydrochloric acid effects on mercury accumulation by Lupinus albus. Environmental Science and Pollution Research, 2016, 23, 24739-24748.	5.3	11
52	Assessment of Metal Availability in Soils from a Pb-Zn Mine Site of South-Central Spain. Soil and Sediment Contamination, 2009, 18, 619-641.	1.9	10
53	Evolution of the pollution in the Piedras River Natural Site (Gulf of Cadiz, southern Spain) during the Holocene. Environmental Earth Sciences, 2016, 75, 1.	2.7	10
54	Heavy metal chemical fractionation and immobilization in lightweight aggregates produced from mining and industrial waste. International Journal of Environmental Science and Technology, 2011, 8, 667-676.	3.5	9

#	Article	IF	Citations
55	Clay minerals as provenance indicators in continental lacustrine sequences: the Leza Formation, early Cretaceous, Cameros Basin, northern Spain. Clay Minerals, 2005, 40, 79-92.	0.6	8
56	Comparison of extractants used for the assessment of mercury availability in a soil from the AlmadÃ©n mining district (Spain). Environmental Science and Pollution Research, 2017, 24, 12963-12970.	5.3	8
57	Could acidity be the reason behind the Early Triassic biotic crisis on land?. Chemical Geology, 2019, 515, 77-86.	3.3	8
58	Asteroid Mining: Mineral Resources in Undifferentiated Bodies from the Chemical Composition of Carbonaceous Chondrites. Thirty Years of Astronomical Discovery With UKIRT, 2017, , 73-101.	0.3	8
59	Sources of Sr and S In Aluminum-Phosphate-Sulfate Minerals In Early-Middle Triassic Sandstones (Iberian Ranges, Spain) and Paleoenvironmental Implications for the West Tethys. Journal of Sedimentary Research, 2013, 83, 406-426.	1.6	7
60	Recovering hydromorphological functionality to improve natural purification capacity of a highly human-modified wetland. Ecological Engineering, 2017, 103, 332-343.	3.6	7
61	Synthesis and characterisation of analogues for interplanetary dust and meteoric smoke particles. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 162, 178-191.	1.6	7
62	Effect heating dwell time has on the retention of heavy metals in the structure of lightweight aggregates manufactured from wastes. Environmental Technology (United Kingdom), 2018, 39, 2511-2523.	2.2	7
63	Molten sulphur-dominated fluids in the origin of a native sulphur mineralization in lacustrine evaporites from Cervera del Rio Alhama (Cameros Basin, NE Spain). Journal of Geochemical Exploration, 2000, 69-70, 183-187.	3.2	5
64	Orbit, emission spectrum, and photometric analysis of two flickering sporadic fireballs. Astronomy and Astrophysics, 2013, 555, A149.	5.1	5
65	Gravel washing wastes from Jarama river deposits (Spain): an undervalued natural raw material. Environmental Geology, 2007, 52, 1097-1115.	1.2	4
66	First report of a Middle-Upper Permian magmatism in the SE Iberian Ranges: characterisation and comparison with coeval magmatisms in the western Tethys. Journal of Iberian Geology, 2013, 38, .	1.3	4
67	The ArdÃ³n L6 ordinary chondrite: A longâ€hidden Spanish meteorite fall. Meteoritics and Planetary Science, 2014, 49, 1475-1484.	1.6	3
68	Geochemical markers of paleoenvironments, weathering, and provenance in Permianâ€“Triassic terrestrial sediments. Journal of Sedimentary Research, 2020, 90, 906-920.	1.6	3
69	Sintering of sepiolite-rich by-products for the manufacture of lightweight aggregates: technological properties, thermal behavior and mineralogical changes. Materiales De Construccion, 2021, 71, e241.	0.7	3
70	Reply to Discussion on â€œReview and critical examination of fine-grained soil classification systems based on plasticityâ€• by J. M. Moreno-Maroto, J. Alonso-AzcÃ¡rate and B. C. O'Kelly, Applied Clay Science 200 (2021) 105955. Applied Clay Science, 2021, 206, 106074.	5.2	3
71	A Bending Test for Determining the Atterberg Plastic Limit in Soils. Journal of Visualized Experiments, 2016, , .	0.3	2
72	Study of the suitability of a new structural concrete manufactured with carbon fiber reinforced lightweight aggregates sintered from wastes. Materiales De Construccion, 2019, 69, 204.	0.7	2

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73	Gravel Mud as Building Ceramic Raw Material. Key Engineering Materials, 2004, 264-268, 2417-2420.	0.4	0
74	Reply to Discussion on: An accurate, quick and simple method to determine the plastic limit and consistency changes in all types of clay and soil: The thread bending test Moreno-Maroto, J. M. and Alonso-Azcarate, J. Applied Clay Science. 114, 497-508. Applied Clay Science, 2016, 123, 222-223.	5.2	0