

Rafael Prez-Lpez

List of Publications by Citations

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84
papers

2,814
citations

29
h-index

50
g-index

84
ext. papers

3,257
ext. citations

7
avg, IF

5.19
L-index

#	Paper	IF	Citations
84	Mineral sequestration of CO ₂ by aqueous carbonation of coal combustion fly-ash. <i>Journal of Hazardous Materials</i> , 2009 , 161, 1347-54	12.8	235
83	Changes in mobility of hazardous elements during coal combustion in Santa Catarina power plant (Brazil). <i>Fuel</i> , 2012 , 94, 495-503	7.1	168
82	Recovery of Rare Earth Elements and Yttrium from Passive-Remediation Systems of Acid Mine Drainage. <i>Environmental Science & Technology</i> , 2016 , 50, 8255-62	10.3	145
81	Use of sequential extraction procedure for assessing the environmental impact at regional scale of the S ^o Domingos Mine (Iberian Pyrite Belt). <i>Applied Geochemistry</i> , 2008 , 23, 3452-3463	3.5	102
80	Changes in mobility of toxic elements during the production of phosphoric acid in the fertilizer industry of Huelva (SW Spain) and environmental impact of phosphogypsum wastes. <i>Journal of Hazardous Materials</i> , 2007 , 148, 745-50	12.8	97
79	Dynamics of contaminants in phosphogypsum of the fertilizer industry of Huelva (SW Spain): From phosphate rock ore to the environment. <i>Applied Geochemistry</i> , 2010 , 25, 705-715	3.5	96
78	Leaching of potential hazardous elements of coal cleaning rejects. <i>Environmental Monitoring and Assessment</i> , 2011 , 175, 109-26	3.1	93
77	Carbonation of alkaline paper mill waste to reduce CO ₂ greenhouse gas emissions into the atmosphere. <i>Applied Geochemistry</i> , 2008 , 23, 2292-2300	3.5	82
76	Enrichment of rare earth elements as environmental tracers of contamination by acid mine drainage in salt marshes: a new perspective. <i>Marine Pollution Bulletin</i> , 2012 , 64, 1799-808	6.7	80
75	Pollutant flows from a phosphogypsum disposal area to an estuarine environment: An insight from geochemical signatures. <i>Science of the Total Environment</i> , 2016 , 553, 42-51	10.2	76
74	Potential environmental impact at S ^o Domingos mining district (Iberian Pyrite Belt, SW Iberian Peninsula): evidence from a chemical and mineralogical characterization. <i>Environmental Geology</i> , 2008 , 55, 1797-1809		73
73	Rare earth element geochemistry of sulphide weathering in the S ^o Domingos mine area (Iberian Pyrite Belt): A proxy for fluid-rock interaction and ancient mining pollution. <i>Chemical Geology</i> , 2010 , 276, 29-40	4.2	70
72	Procedure to use phosphogypsum industrial waste for mineral CO ₂ sequestration. <i>Journal of Hazardous Materials</i> , 2011 , 196, 431-5	12.8	67
71	Evaluation of heavy metal bio-availability from Almagrera pyrite-rich tailings dam (Iberian Pyrite Belt, SW Spain) based on a sequential extraction procedure. <i>Journal of Geochemical Exploration</i> , 2009 , 102, 87-94	3.8	64
70	Fractionation and fluxes of metals and radionuclides during the recycling process of phosphogypsum wastes applied to mineral CO ₂ sequestration. <i>Waste Management</i> , 2015 , 45, 412-9	8.6	62
69	From highly polluted Zn-rich acid mine drainage to non-metallic waters: implementation of a multi-step alkaline passive treatment system to remediate metal pollution. <i>Science of the Total Environment</i> , 2012 , 433, 323-30	10.2	58
68	Utilization of fly ash to improve the quality of the acid mine drainage generated by oxidation of a sulphide-rich mining waste: column experiments. <i>Chemosphere</i> , 2007 , 67, 1637-46	8.4	56

67	Biologically-induced precipitation of sphalerite-wurtzite nanoparticles by sulfate-reducing bacteria: implications for acid mine drainage treatment. <i>Science of the Total Environment</i> , 2012 , 423, 176-84	10.2	49
66	Valorization of wastes from the fertilizer industry: Current status and future trends. <i>Journal of Cleaner Production</i> , 2018 , 174, 678-690	10.3	49
65	An anomalous metal-rich phosphogypsum: Characterization and classification according to international regulations. <i>Journal of Hazardous Materials</i> , 2017 , 331, 99-108	12.8	43
64	The iron-coating role on the oxidation kinetics of a pyritic sludge doped with fly ash. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 1921-1934	5.5	43
63	The potential role of aluminium hydroxysulphates in the removal of contaminants in acid mine drainage. <i>Chemical Geology</i> , 2015 , 417, 414-423	4.2	41
62	Immobilization of toxic elements in mine residues derived from mining activities in the Iberian Pyrite Belt (SW Spain): Laboratory experiments. <i>Applied Geochemistry</i> , 2007 , 22, 1919-1935	3.5	41
61	Management strategies and valorization for waste sludge from active treatment of extremely metal-polluted acid mine drainage: A contribution for sustainable mining. <i>Journal of Cleaner Production</i> , 2017 , 141, 1057-1066	10.3	40
60	Neutralization of acid mine drainage using the final product from CO2 emissions capture with alkaline paper mill waste. <i>Journal of Hazardous Materials</i> , 2010 , 177, 762-72	12.8	39
59	Environmental Assessment and Management of Phosphogypsum According to European and United States of America Regulations. <i>Procedia Earth and Planetary Science</i> , 2017 , 17, 666-669		35
58	<i>Erica andevalensis</i> and <i>Erica australis</i> growing in the same extreme environments: Phytostabilization potential of mining areas. <i>Geoderma</i> , 2014 , 230-231, 194-203	6.7	33
57	Environmental tracers for elucidating the weathering process in a phosphogypsum disposal site: Implications for restoration. <i>Journal of Hydrology</i> , 2015 , 529, 1313-1323	6	32
56	Evaluation of heavy metals and arsenic speciation discharged by the industrial activity on the Tinto-Odiel estuary, SW Spain. <i>Marine Pollution Bulletin</i> , 2011 , 62, 405-11	6.7	29
55	Attenuation of pyrite oxidation with a fly ash pre-barrier: Reactive transport modelling of column experiments. <i>Applied Geochemistry</i> , 2009 , 24, 1712-1723	3.5	29
54	Characterization of the role of phosphogypsum foam in the transport of metals and radionuclides in the Southern Mediterranean Sea. <i>Journal of Hazardous Materials</i> , 2019 , 363, 258-267	12.8	29
53	A novel approach for acid mine drainage pollution biomonitoring using rare earth elements bioaccumulated in the freshwater clam <i>Corbicula fluminea</i> . <i>Journal of Hazardous Materials</i> , 2017 , 338, 466-471	12.8	27
52	Arsenate and Selenate Scavenging by Basaluminite: Insights into the Reactivity of Aluminum Phases in Acid Mine Drainage. <i>Environmental Science & Technology</i> , 2017 , 51, 28-37	10.3	27
51	New method for carbon dioxide mineralization based on phosphogypsum and aluminium-rich industrial wastes resulting in valuable carbonated by-products. <i>Journal of CO2 Utilization</i> , 2017 , 18, 15-22	7.6	26
50	Evaluation of organic substrates to enhance the sulfate-reducing activity in phosphogypsum. <i>Science of the Total Environment</i> , 2012 , 439, 106-13	10.2	24

49	Uncertainty in the measurement of toxic metals mobility in mining/mineral wastes by standardized BCRSEP. <i>Journal of Hazardous Materials</i> , 2018 , 360, 587-593	12.8	23
48	Combination of sequential chemical extraction and modelling of dam-break wave propagation to aid assessment of risk related to the possible collapse of a roasted sulphide tailings dam. <i>Science of the Total Environment</i> , 2009 , 407, 5761-71	10.2	23
47	Formation of a hardpan in the co-disposal of fly ash and sulfide mine tailings and its influence on the generation of acid mine drainage. <i>Chemical Geology</i> , 2013 , 355, 45-55	4.2	22
46	Synchrotron-based X-ray study of iron oxide transformations in terraces from the Tinto-Odiel river system: Influence on arsenic mobility. <i>Chemical Geology</i> , 2011 , 280, 336-343	4.2	22
45	Assessment of phosphogypsum impact on the salt-marshes of the Tinto river (SW Spain): role of natural attenuation processes. <i>Marine Pollution Bulletin</i> , 2011 , 62, 2787-96	6.7	22
44	Controls on acid mine water composition from the Iberian Pyrite Belt (SW Spain). <i>Catena</i> , 2016 , 137, 12-23	5.8	21
43	Arsenic speciation in soils and <i>Erica andevalensis</i> Cabezudo & Rivera and <i>Erica australis</i> L. from Sã Domingos Mine area, Portugal. <i>Journal of Geochemical Exploration</i> , 2012 , 119-120, 51-59	3.8	21
42	Arsenic attenuation in tailings at a former Cu-Mn-Ag mine, SW Finland. <i>Applied Geochemistry</i> , 2012 , 27, 2289-2299	3.5	20
41	A geochemical approach to the restoration plans for the Odiel River basin (SW Spain), a watershed deeply polluted by acid mine drainage. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 4506-4516	5.1	19
40	Acid neutralization by dissolution of alkaline paper mill wastes and implications for treatment of sulfide-mine drainage. <i>American Mineralogist</i> , 2011 , 96, 781-791	2.9	19
39	Prediction of the environmental impact of modern slags: A petrological and chemical comparative study with Roman age slags. <i>American Mineralogist</i> , 2009 , 94, 1417-1427	2.9	19
38	Sulfate reduction processes in salt marshes affected by phosphogypsum: Geochemical influences on contaminant mobility. <i>Journal of Hazardous Materials</i> , 2018 , 350, 154-161	12.8	18
37	Assessment of natural radionuclides mobility in a phosphogypsum disposal area. <i>Chemosphere</i> , 2018 , 211, 775-783	8.4	18
36	Major hydrogeochemical processes in an acid mine drainage affected estuary. <i>Marine Pollution Bulletin</i> , 2015 , 91, 295-305	6.7	17
35	The role of mineralogy on element mobility in two sulfide mine tailings from the Iberian Pyrite Belt (SW Spain). <i>Chemical Geology</i> , 2013 , 345, 119-129	4.2	17
34	Mineralogy of the hardpan formation processes in the interface between sulfide-rich sludge and fly ash: Applications for acid mine drainage mitigation. <i>American Mineralogist</i> , 2007 , 92, 1966-1977	2.9	17
33	Mineralogy and geochemistry of Zn-rich mine-drainage precipitates from an MgO passive treatment system by synchrotron-based X-ray analysis. <i>Environmental Science & Technology</i> , 2011 , 45, 7826-33	10.3	15
32	Metal partitioning and speciation in a mining-impacted estuary by traditional and passive sampling methods. <i>Science of the Total Environment</i> , 2020 , 722, 137905	10.2	14

31	Assessment of metals mobility during the alkaline treatment of highly acid phosphogypsum leachates. <i>Science of the Total Environment</i> , 2019 , 660, 395-405	10.2	13
30	Effects of seawater mixing on the mobility of trace elements in acid phosphogypsum leachates. <i>Marine Pollution Bulletin</i> , 2018 , 127, 695-703	6.7	13
29	Raman identification of Fe precipitates and evaluation of As fate during phase transformation in Tinto and Odiel River Basins. <i>Chemical Geology</i> , 2015 , 398, 22-31	4.2	13
28	Long-term interaction of wollastonite with acid mine water and effects on arsenic and metal removal. <i>Applied Geochemistry</i> , 2008 , 23, 1288-1298	3.5	13
27	Metal and acidity fluxes controlled by precipitation/dissolution cycles of sulfate salts in an anthropogenic mine aquifer. <i>Journal of Contaminant Hydrology</i> , 2016 , 188, 29-43	3.9	12
26	The nanocrystalline structure of basaluminite, an aluminum hydroxide sulfate from acid mine drainage. <i>American Mineralogist</i> , 2017 , 102, 2381-2389	2.9	12
25	Combined microstructural and mineralogical phase characterization of gallstones in a patient-based study in SW Spain - Implications for environmental contamination in their formation. <i>Science of the Total Environment</i> , 2016 , 573, 433-443	10.2	11
24	Mineralogically-induced metal partitioning during the evaporative precipitation of efflorescent sulfate salts from acid mine drainage. <i>Chemical Geology</i> , 2019 , 530, 119339	4.2	11
23	Stable isotope insights into the weathering processes of a phosphogypsum disposal area. <i>Water Research</i> , 2018 , 140, 344-353	12.5	9
22	Release of technology critical metals during sulfide oxidation processes: the case of the Poderosa sulfide mine (south-west Spain). <i>Environmental Chemistry</i> , 2020 , 17, 93	3.2	9
21	Trace element-mineral associations in modern and ancient iron terraces in acid drainage environments. <i>Catena</i> , 2016 , 147, 386-393	5.8	9
20	Influence of As(V) on precipitation and transformation of schwertmannite in acid mine drainage-impacted waters. <i>European Journal of Mineralogy</i> , 2019 , 31, 237-245	2.2	7
19	Unraveling the impact of chronic exposure to metal pollution through human gallstones. <i>Science of the Total Environment</i> , 2018 , 624, 1031-1040	10.2	7
18	Mine waters as a secondary source of rare earth elements worldwide: The case of the Iberian Pyrite Belt. <i>Journal of Geochemical Exploration</i> , 2021 , 224, 106742	3.8	7
17	Assessing the quality of potentially reclaimed mine soils: Environmental implications for the construction of a nearby water reservoir. <i>Chemosphere</i> , 2019 , 216, 19-30	8.4	7
16	Assessment of the dissolved pollutant flux of the Odiel River (SW Spain) during a wet period. <i>Science of the Total Environment</i> , 2013 , 463-464, 572-80	10.2	6
15	Whole-nanoparticle atomistic modeling of the schwertmannite structure from total scattering data. <i>Journal of Applied Crystallography</i> , 2017 , 50, 1617-1626	3.8	6
14	Design and optimization of sustainable passive treatment systems for phosphogypsum leachates in an orphan disposal site. <i>Journal of Environmental Management</i> , 2020 , 275, 111251	7.9	6

13	Basaluminite Structure and its Environmental Implications. <i>Procedia Earth and Planetary Science</i> , 2017 , 17, 237-240		5
12	Experimental and theoretical evidence of zinc structurally bound in vermiculite from naturally metal-enriched soils. <i>Clay Minerals</i> , 2013 , 48, 529-541	1.3	5
11	New insights into the metal partitioning in different microphases of human gallstones. <i>Journal of Trace Elements in Medicine and Biology</i> , 2017 , 44, 339-348	4.1	5
10	Role of Arsenic During the Aging of Acid Mine Drainage Precipitates. <i>Procedia Earth and Planetary Science</i> , 2017 , 17, 233-236		4
9	Mineral reactivity in sulphide mine wastes: influence of mineralogy and grain size on metal release. <i>European Journal of Mineralogy</i> , 2019 , 31, 263-273	2.2	4
8	Geochemical behaviour and transport of technology critical metals (TCMs) by the Tinto River (SW Spain) to the Atlantic Ocean. <i>Science of the Total Environment</i> , 2021 , 764, 143796	10.2	4
7	Eco-sustainable passive treatment for mine waters: Full-scale and long-term demonstration. <i>Journal of Environmental Management</i> , 2021 , 280, 111699	7.9	4
6	Metal(loid) release from sulfide-rich wastes to the environment: The case of the Iberian Pyrite Belt (SW Spain). <i>Current Opinion in Environmental Science and Health</i> , 2021 , 20, 100240	8.1	2
5	Combined procedure of metal removal and recovery of technology elements from fertilizer industry effluents. <i>Journal of Geochemical Exploration</i> , 2021 , 221, 106698	3.8	2
4	Effects of redox oscillations on the phosphogypsum waste in an estuarine salt-marsh system. <i>Chemosphere</i> , 2020 , 242, 125174	8.4	1
3	Environmental management and potential valorization of wastes generated in passive treatments of fertilizer industry effluents.. <i>Chemosphere</i> , 2022 , 295, 133876	8.4	0
2	Recovery of Critical Raw Materials from Acid Mine Drainage (AMD) 2020 , 219-233		0
1	Thallium distribution in an estuary affected by acid mine drainage (AMD): The R� de Huelva estuary (SW Spain).. <i>Environmental Pollution</i> , 2022 , 119448	9.3	0