

JosÃ© M J M Rodriguez-Maroto

List of Publications by Year in descending order

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98
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2,038
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218677

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101
all docs

101
docs citations

101
times ranked

1761
citing authors

#	ARTICLE	IF	CITATIONS
1	Acid leaching of LiCoO ₂ enhanced by reducing agent. Model formulation and validation. Chemosphere, 2022, 287, 132020.	8.2	14
2	Electrochemically Assisted Dewatering. Environmental Pollution, 2021, , 401-433.	0.4	0
3	Batch and Fixed-Bed Biosorption of Pb (II) Using Free and Alginate-Immobilized Spirulina. Processes, 2021, 9, 466.	2.8	6
4	Effect of pretreatment and co-substrate addition on biogas production from pig slurry. Water and Environment Journal, 2021, 35, 1147-1157.	2.2	1
5	Removal of polycyclic aromatic hydrocarbons (PAHs) in conventional drinking water treatment processes. Journal of Contaminant Hydrology, 2021, 243, 103888.	3.3	25
6	Hydrometallurgical Extraction of Li and Co from LiCoO ₂ Particles – Experimental and Modeling. Applied Sciences (Switzerland), 2020, 10, 6375.	2.5	11
7	Chemical Reduction of Nitrate by Zero-Valent Iron: Shrinking-Core versus Surface Kinetics Models. International Journal of Environmental Research and Public Health, 2020, 17, 1241.	2.6	6
8	Recovery of Li and Co from LiCoO ₂ via Hydrometallurgical – Electrolytic Treatment. Applied Sciences (Switzerland), 2020, 10, 2367.	2.5	26
9	SEQUENTIAL EXTRACTION PROCEDURE: A VERSATILE TOOL FOR ENVIRONMENTAL RESEARCH. Detritus, 2020, , 23-28.	0.9	0
10	Electrokinetic Remediation Procedure Applied to Polluted Soils in Southern Spain. Journal of Hazardous, Toxic, and Radioactive Waste, 2019, 23, 04019017.	2.0	1
11	Optimization of Ni (II) biosorption from aqueous solution on modified lemon peel. Environmental Research, 2019, 179, 108849.	7.5	51
12	Electrodialytic processes in solid matrices. New insights into battery recycling. A review. Journal of Chemical Technology and Biotechnology, 2019, 94, 1727-1738.	3.2	11
13	Anaerobic co-digestion of municipal sewage sludge and fruit/vegetable waste: effect of different mixtures on digester stability and methane yield. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2019, 54, 628-634.	1.7	17
14	Immobilization of Brown Seaweeds Sargassum vulgare for Fe ³⁺ Removal in Batch and Fixed-Bed Column. Water, Air, and Soil Pollution, 2019, 230, 1.	2.4	9
15	TEACHING CHEMICAL ENGINEERING USING COMSOL MULTIPHYSICS. , 2019, , .		1
16	Specific Energy Requirements in Electrokinetic Remediation. Transport in Porous Media, 2018, 121, 585-595.	2.6	9
17	Aging effects on the mobility of Pb in soil: Influence on the energy requirements in electroremediation. Chemosphere, 2018, 213, 351-357.	8.2	15
18	Electrodialytic phosphorus recovery from sewage sludge ash under kinetic control. Electrochimica Acta, 2018, 287, 49-59.	5.2	18

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19	Electroremediation of sodium bentonite contaminated with phenanthrene and its modeling with a Nernst-Planck equation. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 1373-1380.	2.9	3
20	Production of biogas from co-digestion of livestock and agricultural residues: A case study. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2017, 52, 856-861.	1.7	12
21	Use of glycosides extracted from the fique (<i>Furcraea</i> sp.) in wastewater treatment for textile industry. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 1131-1136.	3.5	6
22	Electrokinetics and Zero Valent Iron Nanoparticles: Experimental and Modeling of the Transport in Different Porous Media. , 2016, , 279-294.		2
23	Feasibility Study of the Electrokinetic Remediation of a Mercury-Polluted Soil. , 2016, , 295-310.		1
24	The use of ethylenediaminetetraacetic acid as enhancing agent for the remediation of a lead polluted soil. <i>Electrochimica Acta</i> , 2015, 181, 82-89.	5.2	23
25	Scaling-up the acid-enhanced electrokinetic remediation of a real contaminated soil. <i>Electrochimica Acta</i> , 2015, 181, 139-145.	5.2	33
26	Effects of the buffering capacity of the soil on the mobilization of heavy metals. Equilibrium and kinetics. <i>Chemosphere</i> , 2015, 131, 78-84.	8.2	32
27	Numerical prediction of diffusion and electric field-induced iron nanoparticle transport. <i>Electrochimica Acta</i> , 2015, 181, 5-12.	5.2	14
28	Modeling of Electric Double-Layers Including Chemical Reaction Effects. <i>Electrochimica Acta</i> , 2014, 150, 263-268.	5.2	22
29	Acid Enhanced Electrokinetic Remediation of a Contaminated Soil using Constant Current Density: Strong vs. Weak Acid. <i>Separation Science and Technology</i> , 2014, 49, 1461-1468.	2.5	30
30	Computing multi-species chemical equilibrium with an algorithm based on the reaction extents. <i>Computers and Chemical Engineering</i> , 2013, 58, 135-143.	3.8	32
31	Simulation-based analysis of the differences in the removal rate of chlorides, nitrates and sulfates by electrokinetic desalination treatments. <i>Electrochimica Acta</i> , 2013, 89, 436-444.	5.2	40
32	Biogas production from pear residues using sludge from a wastewater treatment plant digester. Influence of the feed delivery procedure. <i>Bioresource Technology</i> , 2013, 127, 242-247.	9.6	17
33	Modeling of electrokinetic desalination of bricks. <i>Electrochimica Acta</i> , 2012, 86, 213-222.	5.2	34
34	Electrokinetic remediation: The use of mercury speciation for feasibility studies applied to a contaminated soil from Almadén. <i>Electrochimica Acta</i> , 2011, 56, 9303-9310.	5.2	29
35	Removal of organic contaminants from soils by an electrokinetic process: The case of molinate and bentazone. Experimental and modeling. <i>Separation and Purification Technology</i> , 2011, 79, 193-203.	7.9	64
36	Modeling of electrokinetic processes by finite element integration of the Nernst-Planck-Poisson system of equations. <i>Separation and Purification Technology</i> , 2011, 79, 183-192.	7.9	47

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37	Feasibility study of the use of different extractant agents in the remediation of a mercury contaminated soil from Almaden. Separation and Purification Technology, 2011, 79, 151-156.	7.9	52
38	Experimental and modeling of the electrodialytic and dialytic treatment of a fly ash containing Cd, Cu and Pb. Journal of Applied Electrochemistry, 2010, 40, 1689-1697.	2.9	10
39	Plant treatment, pollutant load, and soil type effects in rhizosphere ecology of trace element polluted soils. Ecotoxicology and Environmental Safety, 2010, 73, 970-981.	6.0	8
40	Mobility and fate of carbetamide in an agricultural soil. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2009, 44, 764-771.	1.5	5
41	Kinetics of the chemical reduction of nitrate by zero-valent iron. Chemosphere, 2009, 74, 804-809.	8.2	103
42	Membrane thickness reduction effects on direct contact membrane distillation performance. Journal of Membrane Science, 2008, 312, 143-156.	8.2	74
43	Effects of pyrite sludge pollution on soil enzyme activities: Ecological dose-response model. Science of the Total Environment, 2008, 396, 89-99.	8.0	79
44	Biomethanization of mixtures of fruits and vegetables solid wastes and sludge from a municipal wastewater treatment plant. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2007, 42, 481-487.	1.7	29
45	Modeling of electrodialytic and dialytic removal of Cr, Cu and As from CCA-treated wood chips. Chemosphere, 2007, 66, 1716-1726.	8.2	26
46	Effects of membrane and module design improvements on flux in direct contact membrane distillation. Desalination, 2007, 205, 97-103.	8.2	40
47	Ammonia enhanced two-dimensional electrokinetic remediation of copper spiked kaolin. Electrochimica Acta, 2007, 52, 3366-3371.	5.2	20
48	Electrokinetic remediation of a soil contaminated by the pyritic sludge spill of Aznalcollar (SW), Tj ETQq0 0 0 rgBT /Oyerlock 10 Tf 50 30	5.2	23
49	On transport resistances in direct contact membrane distillation. Journal of Membrane Science, 2007, 295, 28-39.	8.2	82
50	Characterization of membrane distillation modules and analysis of mass flux enhancement by channel spacers. Journal of Membrane Science, 2006, 274, 123-137.	8.2	89
51	Bulk and measured temperatures in direct contact membrane distillation. Journal of Membrane Science, 2005, 250, 141-149.	8.2	34
52	Decontamination of Soils by Membrane Processes: Characterization of Membranes under Working Conditions. Industrial & Engineering Chemistry Research, 2005, 44, 400-407.	3.7	11
53	Removal of organic contaminants from soils by an electrokinetic process: the case of atrazine.. Chemosphere, 2005, 59, 1229-1239.	8.2	105
54	Air bubbling results in carbon loss during microalgal cultivation in bicarbonate-enriched media: experimental data and process modeling. Aquacultural Engineering, 2005, 32, 493-508.	3.1	17

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55	Two-dimensional model for soil electrokinetic remediation of heavy metals. <i>Chemosphere</i> , 2004, 54, 895-903.	8.2	40
56	Competitive retention of lead and cadmium on an agricultural soil. <i>Environmental Monitoring and Assessment</i> , 2003, 89, 165-177.	2.7	14
57	A COLUMN STUDY OF SOIL CONTAMINATION BY LEAD: INFLUENCE OF pH AND CARBONATE CONTENT. I. EXPERIMENTAL RESULTS. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2001, 36, 437-446.	1.7	0
58	A COLUMN STUDY OF SOIL CONTAMINATION BY LEAD: INFLUENCE OF pH AND CARBONATE CONTENT. II. MATHEMATICAL MODEL. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2001, 36, 1015-1026.	1.7	0
59	Column study of the influence of air humidity on the retention of hydrocarbons on soil. <i>Chemosphere</i> , 2000, 41, 1167-1172.	8.2	9
60	Experimental setup for the study of soil vapor extraction: a practical approach to determine sorption effect. <i>Water Science and Technology</i> , 1998, 37, 169.	2.5	2
61	Soil Flushing with EDTA Solutions: A Model for Channeled Flow. <i>Separation Science and Technology</i> , 1998, 33, 867-886.	2.5	4
62	Chemotaxis of Pathogenic <i>Vibrio</i> Strains towards Mucus Surfaces of Gilt-Head Sea Bream (<i>Lateolabrax niloticus</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	3.1	60
63	Experimental setup for the study of soil vapor extraction: a practical approach to determine sorption effect. <i>Water Science and Technology</i> , 1998, 37, 169-176.	2.5	3
64	Methane production in anaerobic sludges supplemented with two support materials and different levels of acetate and sulphate. <i>Water Research</i> , 1997, 31, 1236-1242.	11.3	9
65	Cleanup of fractured rock aquifers. II. Effects of matrix diffusion and nonaqueous phase liquid. <i>Environmental Monitoring and Assessment</i> , 1996, 43, 153-179.	2.7	2
66	Effect of turbulence and inorganic carbon supply on growth of <i>Dunaliella viridis</i> Teodoresco. <i>International Journal of Salt Lake Research</i> , 1995, 4, 223-232.	0.1	6
67	Soil Cleanup by In-Situ Aeration. XXII. Impact of Natural Soil Organic Matter on Cleanup Rates. <i>Separation Science and Technology</i> , 1995, 30, 659-682.	2.5	5
68	Soil Cleanup by In-Situ Aeration. XXIII. Effect of Air Channeling. <i>Separation Science and Technology</i> , 1995, 30, 2491-2508.	2.5	4
69	Removal of Semivolatiles from Soils by Steam Stripping. IV. Effects of Adsorption/Desorption Kinetics. <i>Separation Science and Technology</i> , 1995, 30, 2659-2678.	2.5	1
70	Electrokinetic Remediation. II. Amphoteric Metals and Enhancement with a Weak Acid. <i>Separation Science and Technology</i> , 1995, 30, 3111-3128.	2.5	25
71	Electrokinetic Remediation. I. Modeling of Simple Systems. <i>Separation Science and Technology</i> , 1995, 30, 2937-2961.	2.5	20
72	Removal of Semivolatiles from Soils by Steam Stripping. II. Effects of Diffusion Kinetics. <i>Separation Science and Technology</i> , 1995, 30, 159-187.	2.5	3

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73	Soil Cleanup by In-Situ Aeration. XXI. Effects of Desorption Rates and Equilibria on Remediation Rates. Separation Science and Technology, 1995, 30, 521-547.	2.5	8
74	Removal of Semivolatiles from Soils by Steam Stripping. III. Steam Dynamics and the Stripping of Contaminants in a Column. Separation Science and Technology, 1995, 30, 317-336.	2.5	3
75	Biodegradation Phenomena during Soil Vapor Extraction: Sensitivity Studies for Single Substrate Systems. Separation Science and Technology, 1994, 29, 557-578.	2.5	3
76	Soil Cleanup by In-Situ Aeration. XX. Mass Transport of Volatile Organics in Wet Activated Carbon. Separation Science and Technology, 1994, 29, 2073-2095.	2.5	0
77	Soil Cleanup by in-situ Aeration. XVI. Solution and Diffusion in Mass-Transport-Limited Operation and Calculation of Darcy's Constants. Separation Science and Technology, 1994, 29, 1133-1163.	2.5	14
78	Groundwater Cleanup by In-Situ Sparging. VI. A Solution/Distributed Diffusion Model for Nonaqueous Phase Liquid Removal. Separation Science and Technology, 1994, 29, 1401-1432.	2.5	6
79	Groundwater Cleanup by In-Situ Sparging. VII. Volatile Organic Compounds Concentration Rebound Caused by Diffusion after Shutdown. Separation Science and Technology, 1994, 29, 1509-1528.	2.5	8
80	Groundwater Cleanup by In-Situ Sparging. VIII. Effect of Air Channeling on Dissolved Volatile Organic Compounds Removal Efficiency. Separation Science and Technology, 1994, 29, 2387-2418.	2.5	15
81	Soil Clean Up by in-situ Aeration. XV. Effects of Variable Air Flow Rates in Diffusion-Limited Operation. Separation Science and Technology, 1994, 29, 943-969.	2.5	5
82	Soil Cleanup by In-Situ Aeration. XIX. Effects of Spill Age on Soil Vapor Extraction Remediation Rates. Separation Science and Technology, 1994, 29, 1645-1671.	2.5	12
83	Soil Cleanup by In-Situ Aeration. XVIII. Field-Scale Models with Diffusion from Clay Structures. Separation Science and Technology, 1994, 29, 1367-1399.	2.5	15
84	Biodegradation Phenomena during Soil Vapor Extraction. III. Sensitivity Studies for Two Substrates. Separation Science and Technology, 1994, 29, 1275-1291.	2.5	4
85	Influence of subsidiary energy on growth of <i>Dunaliella viridis</i> Teodoresco: the role of extra energy in algal growth. Journal of Applied Phycology, 1994, 6, 323-330.	2.8	8
86	Evaluation of the use of sepiolite to optimize the methanogenesis from anaerobic domestic sludges in laboratory conditions. Water Research, 1994, 28, 195-200.	11.3	6
87	Biodegradation Phenomena during Soil Vapor Extraction: A High-Speed Nonequilibrium Model. Separation Science and Technology, 1994, 29, 429-463.	2.5	18
88	Influence of water evaporation on soil vapor extraction (SVE). Water Science and Technology, 1994, 30, 115-118.	2.5	6
89	Cobalt(II) removal from water by chemical reduction with sodium borohydride. Water Research, 1993, 27, 985-992.	11.3	38
90	Copper Removal from Water by Chemical Reduction with Sodium Borohydride. Separation Science and Technology, 1992, 27, 1449-1468.	2.5	14

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91	Heavy Metal Removal by Chemical Reduction with Sodium Borohydride. A Pilot-Plant Study. Separation Science and Technology, 1992, 27, 1569-1582.	2.5	10
92	Soil Clean Up by in-situ Aeration. VI. Effects of Variable Permeabilities. Separation Science and Technology, 1991, 26, 133-163.	2.5	14
93	Soil Clean Up by in-situ Aeration. VII. High-Speed Modeling of Diffusion Kinetics. Separation Science and Technology, 1991, 26, 743-760.	2.5	15
94	Thermal decomposition of wood in oxidizing atmosphere. A kinetic study from non-isothermal TG experiments. Thermochemica Acta, 1991, 191, 161-178.	2.7	34
95	Soil Clean Up by in-situ Aeration. VIII. Effects of System Geometry on Vapor Extraction Efficiency. Separation Science and Technology, 1991, 26, 1051-1064.	2.5	3
96	On the kinetics of thermal decomposition of wood and wood components. Thermochemica Acta, 1990, 164, 135-144.	2.7	88
97	Electrokinetic Modeling of Heavy Metals. , 0, , 537-562.		2
98	Modelling of Electrokinetic Processes in Civil and Environmental Engineering Applications. , 0, , .		1