

JosÃ© M J M Rodriguez-Maroto

List of Publications by Year in descending order

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98
papers

2,038
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218381

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101
all docs

101
docs citations

101
times ranked

1761
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of organic contaminants from soils by an electrokinetic process: the case of atrazine.. Chemosphere, 2005, 59, 1229-1239.	4.2	105
2	Kinetics of the chemical reduction of nitrate by zero-valent iron. Chemosphere, 2009, 74, 804-809.	4.2	103
3	Characterization of membrane distillation modules and analysis of mass flux enhancement by channel spacers. Journal of Membrane Science, 2006, 274, 123-137.	4.1	89
4	On the kinetics of thermal decomposition of wood and wood components. Thermochemica Acta, 1990, 164, 135-144.	1.2	88
5	On transport resistances in direct contact membrane distillation. Journal of Membrane Science, 2007, 295, 28-39.	4.1	82
6	Effects of pyrite sludge pollution on soil enzyme activities: Ecological doseâ€“response model. Science of the Total Environment, 2008, 396, 89-99.	3.9	79
7	Membrane thickness reduction effects on direct contact membrane distillation performance. Journal of Membrane Science, 2008, 312, 143-156.	4.1	74
8	Removal of organic contaminants from soils by an electrokinetic process: The case of molinate and bentazone. Experimental and modeling. Separation and Purification Technology, 2011, 79, 193-203.	3.9	64
9	Chemotaxis of Pathogenic <i>Vibrio</i> Strains towards Mucus Surfaces of Gilt-Head Sea Bream (<i>Lateolabrax niloticus</i>) Tj ETQq1 1 0.784314 rgBT /Overlo 1.4 60	1.4	60
10	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.	3.9	52
11	Optimization of Ni (II) biosorption from aqueous solution on modified lemon peel. Environmental Research, 2019, 179, 108849.	3.7	51
12	Modeling of electrokinetic processes by finite element integration of the Nernstâ€“Planckâ€“Poisson system of equations. Separation and Purification Technology, 2011, 79, 183-192.	3.9	47
13	Two-dimensional model for soil electrokinetic remediation of heavy metals. Chemosphere, 2004, 54, 895-903.	4.2	40
14	Effects of membrane and module design improvements on flux in direct contact membrane distillation. Desalination, 2007, 205, 97-103.	4.0	40
15	Simulation-based analysis of the differences in the removal rate of chlorides, nitrates and sulfates by electrokinetic desalination treatments. Electrochimica Acta, 2013, 89, 436-444.	2.6	40
16	Cobalt(II) removal from water by chemical reduction with sodium borohydride. Water Research, 1993, 27, 985-992.	5.3	38
17	Thermal decomposition of wood in oxidizing atmosphere. A kinetic study from non-isothermal TG experiments. Thermochemica Acta, 1991, 191, 161-178.	1.2	34
18	Bulk and measured temperatures in direct contact membrane distillation. Journal of Membrane Science, 2005, 250, 141-149.	4.1	34

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19	Modeling of electrokinetic desalination of bricks. <i>Electrochimica Acta</i> , 2012, 86, 213-222.	2.6	34
20	Scaling-up the acid-enhanced electrokinetic remediation of a real contaminated soil. <i>Electrochimica Acta</i> , 2015, 181, 139-145.	2.6	33
21	Computing multi-species chemical equilibrium with an algorithm based on the reaction extents. <i>Computers and Chemical Engineering</i> , 2013, 58, 135-143.	2.0	32
22	Effects of the buffering capacity of the soil on the mobilization of heavy metals. <i>Equilibrium and kinetics. Chemosphere</i> , 2015, 131, 78-84.	4.2	32
23	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.	1.3	30
24	Biomethanization of mixtures of fruits and vegetables solid wastes and sludge from a municipal wastewater treatment plant. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2007, 42, 481-487.	0.9	29
25	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.	2.6	29
26	Modeling of electro-dialytic and dialytic removal of Cr, Cu and As from CCA-treated wood chips. <i>Chemosphere</i> , 2007, 66, 1716-1726.	4.2	26
27	Recovery of Li and Co from LiCoO ₂ via Hydrometallurgical Electro-dialytic Treatment. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2367.	1.3	26
28	Electrokinetic Remediation. II. Amphoteric Metals and Enhancement with a Weak Acid. <i>Separation Science and Technology</i> , 1995, 30, 3111-3128.	1.3	25
29	Removal of polycyclic aromatic hydrocarbons (PAHs) in conventional drinking water treatment processes. <i>Journal of Contaminant Hydrology</i> , 2021, 243, 103888.	1.6	25
30	Electrokinetic remediation of a soil contaminated by the pyritic sludge spill of Aznalcollar (SW). <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2007, 42, 481-487.	2.6	23
31	The use of ethylenediaminetetraacetic acid as enhancing agent for the remediation of a lead polluted soil. <i>Electrochimica Acta</i> , 2015, 181, 82-89.	2.6	23
32	Modeling of Electric Double-Layers Including Chemical Reaction Effects. <i>Electrochimica Acta</i> , 2014, 150, 263-268.	2.6	22
33	Electrokinetic Remediation. I. Modeling of Simple Systems. <i>Separation Science and Technology</i> , 1995, 30, 2937-2961.	1.3	20
34	Ammonia enhanced two-dimensional electrokinetic remediation of copper spiked kaolin. <i>Electrochimica Acta</i> , 2007, 52, 3366-3371.	2.6	20
35	Biodegradation Phenomena during Soil Vapor Extraction: A High-Speed Nonequilibrium Model. <i>Separation Science and Technology</i> , 1994, 29, 429-463.	1.3	18
36	Electrodialytic phosphorus recovery from sewage sludge ash under kinetic control. <i>Electrochimica Acta</i> , 2018, 287, 49-59.	2.6	18

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37	Air bubbling results in carbon loss during microalgal cultivation in bicarbonate-enriched media: experimental data and process modeling. <i>Aquacultural Engineering</i> , 2005, 32, 493-508.	1.4	17
38	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.	4.8	17
39	Anaerobic co-digestion of municipal sewage sludge and fruit/vegetable waste: effect of different mixtures on digester stability and methane yield. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2019, 54, 628-634.	0.9	17
40	Soil Clean Up by <i>in-situ</i> Aeration. VII. High-Speed Modeling of Diffusion Kinetics. <i>Separation Science and Technology</i> , 1991, 26, 743-760.	1.3	15
41	Groundwater Cleanup by In-Situ Sparging. VIII. Effect of Air Channeling on Dissolved Volatile Organic Compounds Removal Efficiency. <i>Separation Science and Technology</i> , 1994, 29, 2387-2418.	1.3	15
42	Soil Cleanup by In-Situ Aeration. XVIII. Field-Scale Models with Diffusion from Clay Structures. <i>Separation Science and Technology</i> , 1994, 29, 1367-1399.	1.3	15
43	Aging effects on the mobility of Pb in soil: Influence on the energy requirements in electroremediation. <i>Chemosphere</i> , 2018, 213, 351-357.	4.2	15
44	Soil Clean Up by <i>in-situ</i> Aeration. VI. Effects of Variable Permeabilities. <i>Separation Science and Technology</i> , 1991, 26, 133-163.	1.3	14
45	Copper Removal from Water by Chemical Reduction with Sodium Borohydride. <i>Separation Science and Technology</i> , 1992, 27, 1449-1468.	1.3	14
46	Soil Cleanup by <i>in-situ</i> Aeration. XVI. Solution and Diffusion in Mass-Transport-Limited Operation and Calculation of Darcy's Constants. <i>Separation Science and Technology</i> , 1994, 29, 1133-1163.	1.3	14
47	Competitive retention of lead and cadmium on an agricultural soil. <i>Environmental Monitoring and Assessment</i> , 2003, 89, 165-177.	1.3	14
48	Numerical prediction of diffusion and electric field-induced iron nanoparticle transport. <i>Electrochimica Acta</i> , 2015, 181, 5-12.	2.6	14
49	Acid leaching of LiCoO ₂ enhanced by reducing agent. Model formulation and validation. <i>Chemosphere</i> , 2022, 287, 132020.	4.2	14
50	Soil Cleanup by In-Situ Aeration. XIX. Effects of Spill Age on Soil Vapor Extraction Remediation Rates. <i>Separation Science and Technology</i> , 1994, 29, 1645-1671.	1.3	12
51	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.	0.9	12
52	Decontamination of Soils by Membrane Processes: Characterization of Membranes under Working Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 400-407.	1.8	11
53	Electrodialytic processes in solid matrices. New insights into battery recycling. A review. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 1727-1738.	1.6	11
54	Hydrometallurgical Extraction of Li and Co from LiCoO ₂ Particles: Experimental and Modeling. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6375.	1.3	11

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55	Heavy Metal Removal by Chemical Reduction with Sodium Borohydride. A Pilot-Plant Study. Separation Science and Technology, 1992, 27, 1569-1582.	1.3	10
56	Experimental and modeling of the electro-dialytic and dialytic treatment of a fly ash containing Cd, Cu and Pb. Journal of Applied Electrochemistry, 2010, 40, 1689-1697.	1.5	10
57	Methane production in anaerobic sludges supplemented with two support materials and different levels of acetate and sulphate. Water Research, 1997, 31, 1236-1242.	5.3	9
58	Column study of the influence of air humidity on the retention of hydrocarbons on soil. Chemosphere, 2000, 41, 1167-1172.	4.2	9
59	Specific Energy Requirements in Electrokinetic Remediation. Transport in Porous Media, 2018, 121, 585-595.	1.2	9
60	Immobilization of Brown Seaweeds <i>Sargassum vulgare</i> for Fe ³⁺ Removal in Batch and Fixed-Bed Column. Water, Air, and Soil Pollution, 2019, 230, 1.	1.1	9
61	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.	1.3	8
62	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.	1.5	8
63	Soil Cleanup by In-Situ Aeration. XXI. Effects of Desorption Rates and Equilibria on Remediation Rates. Separation Science and Technology, 1995, 30, 521-547.	1.3	8
64	Plant treatment, pollutant load, and soil type effects in rhizosphere ecology of trace element polluted soils. Ecotoxicology and Environmental Safety, 2010, 73, 970-981.	2.9	8
65	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.	1.3	6
66	Evaluation of the use of sepiolite to optimize the methanogenesis from anaerobic domestic sludges in laboratory conditions. Water Research, 1994, 28, 195-200.	5.3	6
67	Effect of turbulence and inorganic carbon supply on growth of <i>Dunaliella viridis</i> Teodoresco. International Journal of Salt Lake Research, 1995, 4, 223-232.	0.1	6
68	Use of glycosides extracted from the fique (<i>Furcraea</i> sp.) in wastewater treatment for textile industry. International Journal of Environmental Science and Technology, 2016, 13, 1131-1136.	1.8	6
69	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.	1.2	6
70	Batch and Fixed-Bed Biosorption of Pb (II) Using Free and Alginate-Immobilized <i>Spirulina</i> . Processes, 2021, 9, 466.	1.3	6
71	Influence of water evaporation on soil vapor extraction (SVE). Water Science and Technology, 1994, 30, 115-118.	1.2	6
72	Soil Clean Up by <i>in-situ</i> Aeration. XV. Effects of Variable Air Flow Rates in Diffusion-Limited Operation. Separation Science and Technology, 1994, 29, 943-969.	1.3	5

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73	Soil Cleanup by In-Situ Aeration. XXII. Impact of Natural Soil Organic Matter on Cleanup Rates. Separation Science and Technology, 1995, 30, 659-682.	1.3	5
74	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.	0.7	5
75	Biodegradation Phenomena during Soil Vapor Extraction. III. Sensitivity Studies for Two Substrates. Separation Science and Technology, 1994, 29, 1275-1291.	1.3	4
76	Soil Cleanup by In-Situ Aeration. XXIII. Effect of Air Channeling. Separation Science and Technology, 1995, 30, 2491-2508.	1.3	4
77	Soil Flushing with EDTA Solutions: A Model for Channeled Flow. Separation Science and Technology, 1998, 33, 867-886.	1.3	4
78	Soil Clean Up by in-situ Aeration. VIII. Effects of System Geometry on Vapor Extraction Efficiency. Separation Science and Technology, 1991, 26, 1051-1064.	1.3	3
79	Biodegradation Phenomena during Soil Vapor Extraction: Sensitivity Studies for Single Substrate Systems. Separation Science and Technology, 1994, 29, 557-578.	1.3	3
80	Removal of Semivolatiles from Soils by Steam Stripping. II. Effects of Diffusion Kinetics. Separation Science and Technology, 1995, 30, 159-187.	1.3	3
81	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.	1.3	3
82	Electroremediation of sodium bentonite contaminated with phenanthrene and its modeling with a Nernst-Planck equation. Journal of Applied Electrochemistry, 2018, 48, 1373-1380.	1.5	3
83	Experimental setup for the study of soil vapor extraction: a practical approach to determine sorption effect. Water Science and Technology, 1998, 37, 169-176.	1.2	3
84	Cleanup of fractured rock aquifers. II. Effects of matrix diffusion and nonaqueous phase liquid. Environmental Monitoring and Assessment, 1996, 43, 153-179.	1.3	2
85	Experimental setup for the study of soil vapor extraction: a practical approach to determine sorption effect. Water Science and Technology, 1998, 37, 169.	1.2	2
86	Electrokinetic Modeling of Heavy Metals. , 0, , 537-562.		2
87	Electrokinetics and Zero Valent Iron Nanoparticles: Experimental and Modeling of the Transport in Different Porous Media. , 2016, , 279-294.		2
88	Removal of Semivolatiles from Soils by Steam Stripping. IV. Effects of Adsorption/Desorption Kinetics. Separation Science and Technology, 1995, 30, 2659-2678.	1.3	1
89	Electrokinetic Remediation Procedure Applied to Polluted Soils in Southern Spain. Journal of Hazardous, Toxic, and Radioactive Waste, 2019, 23, 04019017.	1.2	1
90	Effect of pretreatment and co-substrate addition on biogas production from pig slurry. Water and Environment Journal, 2021, 35, 1147-1157.	1.0	1

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91	Feasibility Study of the Electrokinetic Remediation of a Mercury-Polluted Soil. , 2016, , 295-310.		1
92	Modelling of Electrokinetic Processes in Civil and Environmental Engineering Applications. , 0, , .		1
93	TEACHING CHEMICAL ENGINEERING USING COMSOL MULTIPHYSICS. , 2019, , .		1
94	Soil Cleanup by In-Situ Aeration. XX. Mass Transport of Volatile Organics in Wet Activated Carbon. Separation Science and Technology, 1994, 29, 2073-2095.	1.3	0
95	A COLUMN STUDY OF SOIL CONTAMINATION BY LEAD: INFLUENCE OF pH AND CARBONATE CONTENT. I. EXPERIMENTAL RESULTS. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2001, 36, 437-446.	0.9	0
96	A COLUMN STUDY OF SOIL CONTAMINATION BY LEAD: INFLUENCE OF pH AND CARBONATE CONTENT. II. MATHEMATICAL MODEL. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2001, 36, 1015-1026.	0.9	0
97	Electrochemically Assisted Dewatering. Environmental Pollution, 2021, , 401-433.	0.4	0
98	SEQUENTIAL EXTRACTION PROCEDURE: A VERSATILE TOOL FOR ENVIRONMENTAL RESEARCH. Detritus, 2020, , 23-28.	0.4	0