

# Raquel Ibañez

## List of Publications by Year in descending order

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62  
papers

3,888  
citations

159358

30  
h-index

128067

60  
g-index

62  
all docs

62  
docs citations

62  
times ranked

4664  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intensified fish farming. Performance of electrochemical remediation of marine RAS waters. <i>Science of the Total Environment</i> , 2022, , 157368.	3.9	2
2	Chemical and Energy Recovery Alternatives in SWRO Desalination through Electro-Membrane Technologies. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8100.	1.3	6
3	Environmental sustainability assessment of seawater reverse osmosis brine valorization by means of electro dialysis with bipolar membranes. <i>Environmental Science and Pollution Research</i> , 2020, 27, 1256-1266.	2.7	31
4	Blue energy for sustainable water reclamation in WWTPs. <i>Journal of Water Process Engineering</i> , 2020, 33, 101020.	2.6	26
5	Reverse Electrodialysis: Potential Reduction in Energy and Emissions of Desalination. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7317.	1.3	9
6	Life cycle assessment of salinity gradient energy recovery by reverse electro dialysis in a seawater reverse osmosis desalination plant. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4273-4284.	2.5	18
7	Highly concentrated HCl and NaOH from brines using electro dialysis with bipolar membranes. <i>Separation and Purification Technology</i> , 2020, 242, 116785.	3.9	43
8	Techno-Economic Feasibility Analysis for Minor Elements Valorization from Desalination Concentrates. <i>Separation and Purification Reviews</i> , 2019, 48, 220-241.	2.8	23
9	Comparative performance of Salinity Gradient Power-Reverse Electro dialysis under different operating conditions. <i>Desalination</i> , 2019, 457, 8-21.	4.0	60
10	Phenomenological prediction of desalination brines nanofiltration through the indirect determination of zeta potential. <i>Separation and Purification Technology</i> , 2019, 210, 746-753.	3.9	23
11	Desalination by Renewable Energy-Powered Electro dialysis Processes. , 2019, , 111-131.		3
12	Photovoltaic solar electro dialysis with bipolar membranes. <i>Desalination</i> , 2018, 433, 155-163.	4.0	35
13	Membrane selective recovery of HCl, zinc and iron from simulated mining effluents. <i>Desalination</i> , 2018, 440, 78-87.	4.0	26
14	Monetizing Environmental Footprints: Index Development and Application to a Solar-Powered Chemicals Self-Supplied Desalination Plant. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14533-14541.	3.2	11
15	Integration of Electrochemical Advanced Oxidation With Membrane Separation and Biodegradation. , 2018, , 495-510.		4
16	Enhancing fouling resistance of polyethylene anion exchange membranes using carbon nanotubes and iron oxide nanoparticles. <i>Desalination</i> , 2017, 411, 19-27.	4.0	37
17	Electrochemical impedance spectroscopy of enhanced layered nanocomposite ion exchange membranes. <i>Journal of Membrane Science</i> , 2017, 541, 611-620.	4.1	10
18	Valorization of desalination brines by electro dialysis with bipolar membranes using nanocomposite anion exchange membranes. <i>Desalination</i> , 2017, 406, 16-24.	4.0	44

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19	Membrane Processes for Whey Proteins Separation and Purification. A Review. Current Organic Chemistry, 2017, 21, .	0.9	32
20	Kinetic modeling and energy evaluation of sodium dodecylbenzenesulfonate photocatalytic degradation in a new LED reactor. Journal of Industrial and Engineering Chemistry, 2016, 37, 237-242.	2.9	28
21	Electrodialysis with Bipolar Membranes for Valorization of Brines. Separation and Purification Reviews, 2016, 45, 275-287.	2.8	51
22	Microalgae biorefinery alternatives and hazard evaluation. Chemical Engineering Research and Design, 2016, 107, 117-125.	2.7	13
23	Sustainability assessment of electrodialysis powered by photovoltaic solar energy for freshwater production. Renewable and Sustainable Energy Reviews, 2015, 47, 604-615.	8.2	63
24	Recovery of desalination brines: separation of calcium, magnesium and sulfate as a pre-treatment step. Desalination and Water Treatment, 2015, 56, 3617-3625.	1.0	19
25	Nanofiltration separation of polyvalent and monovalent anions in desalination brines. Journal of Membrane Science, 2015, 473, 16-27.	4.1	131
26	Kinetic analysis and biodegradability of the Fenton mineralization of bisphenol A. Journal of Chemical Technology and Biotechnology, 2014, 89, 1228-1234.	1.6	15
27	Preliminary assessment of soil contamination by hydrocarbon storage activities: Main site investigation selection. Journal of Geochemical Exploration, 2014, 147, 283-290.	1.5	11
28	Improved separation of bovine serum albumin and lactoferrin mixtures using charged ultrafiltration membranes. Separation and Purification Technology, 2014, 125, 163-169.	3.9	46
29	Accurate determination of key surface properties that determine the efficient separation of bovine milk BSA and LF proteins. Separation and Purification Technology, 2014, 135, 145-157.	3.9	21
30	Human Risk Assessment of Contaminated Soils by Oil Products: Total TPH Content Versus Fraction Approach. Human and Ecological Risk Assessment (HERA), 2014, 20, 1231-1248.	1.7	32
31	A comparison of models for assessing human risks of petroleum hydrocarbons in polluted soils. Environmental Modelling and Software, 2014, 55, 61-69.	1.9	22
32	Pharmaceutical Industry Wastewater: Review of the Technologies for Water Treatment and Reuse. Industrial & Engineering Chemistry Research, 2014, 53, 11571-11592.	1.8	586
33	Removal of pharmaceuticals from a WWTP secondary effluent by ultrafiltration/reverse osmosis followed by electrochemical oxidation of the RO concentrate. Desalination, 2013, 331, 26-34.	4.0	186
34	Assessment of soil pollution based on total petroleum hydrocarbons and individual oil substances. Journal of Environmental Management, 2013, 130, 72-79.	3.8	128
35	Acid and base recovery from softened reverse osmosis (RO) brines. Experimental assessment using model concentrates. Desalination, 2013, 309, 165-170.	4.0	83
36	Kinetics of nitrogen compounds in a commercial marine Recirculating Aquaculture System. Aquacultural Engineering, 2012, 50, 20-27.	1.4	37

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37	State of the art and review on the treatment technologies of water reverse osmosis concentrates. <i>Water Research</i> , 2012, 46, 267-283.	5.3	606
38	Assessment of the formation of inorganic oxidation by-products during the electrocatalytic treatment of ammonium from landfill leachates. <i>Water Research</i> , 2012, 46, 2579-2590.	5.3	133
39	Hybrid membrane process for the recovery of major components (zinc, iron and HCl) from spent pickling effluents. <i>Journal of Membrane Science</i> , 2012, 415-416, 616-623.	4.1	27
40	Kinetic study of the simultaneous electrochemical removal of aqueous nitrogen compounds using BDD electrodes. <i>Chemical Engineering Journal</i> , 2012, 197, 475-482.	6.6	86
41	Kinetics of electro-oxidation of ammonia-N, nitrites and COD from a recirculating aquaculture saline water system using BDD anodes. <i>Water Research</i> , 2011, 45, 125-134.	5.3	149
42	Liquid membrane technology: fundamentals and review of its applications. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 2-10.	1.6	196
43	Electrochemical oxidation of saline industrial wastewaters using boron-doped diamond anodes. <i>Catalysis Today</i> , 2010, 151, 178-184.	2.2	46
44	Electrochemical disinfection of secondary wastewater treatment plant (WWTP) effluent. <i>Water Science and Technology</i> , 2010, 62, 892-897.	1.2	41
45	Influence of ion concentration on the kinetics of electrodialysis with bipolar membranes. <i>Separation and Purification Technology</i> , 2008, 59, 197-205.	3.9	41
46	Influence of process variables on the production of bovine milk casein by electrodialysis with bipolar membranes. <i>Biochemical Engineering Journal</i> , 2008, 40, 304-311.	1.8	31
47	Pervaporation Technology for the Dehydration of Solvents and Raw Materials in the Process Industry. <i>Drying Technology</i> , 2007, 25, 1819-1828.	1.7	26
48	Morphology and Microtopology of Cation-Exchange Polymers and the Origin of the Overlimiting Current. <i>Journal of Physical Chemistry B</i> , 2007, 111, 2152-2165.	1.2	174
49	Modeling of pervaporation processes controlled by concentration polarization. <i>Computers and Chemical Engineering</i> , 2007, 31, 1326-1335.	2.0	12
50	Optimum design of PV processes for dehydration of organic mixtures. <i>Desalination</i> , 2006, 193, 152-159.	4.0	13
51	Comparative behaviour of hydrophilic membranes in the pervaporative dehydration of cyclohexane. <i>Journal of Membrane Science</i> , 2006, 279, 635-644.	4.1	10
52	Comparative study of the separation of methanol-methyl acetate mixtures by pervaporation and vapor permeation using a commercial membrane. <i>Journal of Membrane Science</i> , 2006, 280, 582-593.	4.1	57
53	Laboratory- and pilot plant-scale study on the dehydration of cyclohexane by pervaporation. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 48-57.	1.6	9
54	Role of membrane surface in concentration polarization at cation exchange membranes. <i>Journal of Membrane Science</i> , 2004, 239, 119-128.	4.1	112

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55	Analysis of the elimination process of polymerisation inhibitors from styrene by means of adsorption. Journal of Chemical Technology and Biotechnology, 2003, 78, 64-72.	1.6	8
56	Scale-up of adsorptive styrene drying. Polymer International, 2002, 51, 792-799.	1.6	6
57	Mathematical modelling of styrene drying by adsorption onto activated alumina. Chemical Engineering Science, 2002, 57, 2589-2592.	1.9	25
58	Kinetics of separating multicomponent mixtures by nondispersive solvent extraction: Ni and Cd. AIChE Journal, 2001, 47, 895-905.	1.8	29
59	Characterization of metal finishing sludges: influence of the pH. Journal of Hazardous Materials, 2000, 79, 63-75.	6.5	26
60	Characterisation and management of incinerator wastes. Journal of Hazardous Materials, 2000, 79, 215-227.	6.5	63
61	Environmental Characterization of Metal Finishing Sludges. Environmental Technology (United Kingdom), 2000, 21, 1073-1081.	0.7843	14
62	Experimental study of the waste binder anhydrite in the solidification/ stabilization process of heavy metal sludges. Journal of Hazardous Materials, 1998, 57, 155-168.	6.5	36