Daniel Prats Rico

List of Publications by Year
in descending order

72 papers	2,098 citations	236833 25 h-index	243529 44 g-index
73 all docs	73 docs citations	73 times ranked	2448 citing authors

#	Article	IF	Citations
1	Desalination and energy consumption. What can we expect in the near future?. Desalination, 2018, 427, 1-9.	4.0	174
2	Analysis of the influence of pH and pressure on the elimination of boron in reverse osmosis. Desalination, 2000, 128, 269-273.	4.0	156
3	Removal of metal ions at low concentration by micellar-enhanced ultrafiltration (MEUF) using sodium dodecyl sulfate (SDS) and linear alkylbenzene sulfonate (LAS). Separation and Purification Technology, 2009, 65, 337-342.	3.9	153
4	Influence of pH in the elimination of boron by means of reverse osmosis. Desalination, 2001, 140, 145-152.	4.0	126
5	Removal of natural organic matter and THM formation potential by ultra- and nanofiltration of surface water. Water Research, 2008, 42, 714-722.	5.3	118
6	Effect of different extraction methods on bound EPS from MBR sludges. Part I: Influence of extraction methods over three-dimensional EEM fluorescence spectroscopy fingerprint. Desalination, 2010, 261, 19-26.	4.0	106
7	Monitoring and analysis of the energy cost of an MBR. Desalination, 2010, 250, 997-1001.	4.0	105
8	Reduction of emerging micropollutants, organic matter, nutrients and salinity from real wastewater by combined MBRâ€"NF/RO treatment. Separation and Purification Technology, 2013, 110, 132-143.	3.9	89
9	Removal of anionic and nonionic surfactants in a wastewater treatment plant with anaerobic digestion. A comparative study. Water Research, 1997, 31, 1925-1930.	5.3	82
10	Endocrine disrupting compounds: A comparison of removal between conventional activated sludge and membrane bioreactors. Desalination, 2011, 272, 240-245.	4.0	56
11	Characterization of soluble and bound EPS obtained from 2 submerged membrane bioreactors by 3D-EEM and HPSEC. Talanta, 2013, 115, 706-712.	2.9	50
12	Approximate cost of the elimination of boron in desalinated water by reverse osmosis and ion exchange resins. Desalination, 2011, 273, 421-427.	4.0	40
13	Removal of linear alkylbenzene sulfonates and their degradation intermediates at low temperatures during activated sludge treatment. Chemosphere, 2006, 64, 1157-1166.	4.2	35
14	pH, Ionic strength and flow velocity effects on the NOM filtration with TiO2/ZrO2 membranes. Separation and Purification Technology, 2006, 52, 325-331.	3.9	34
15	Quaternary liquid-liquid equilibrium: water-ethanol-chloroform-toluene at 25.degree.C. Experimental determination and graphical and analytical correlation of equilibrium data. Journal of Chemical & Engineering Data, 1985, 30, 412-416.	1.0	33
16	Reduction of chlorination byproducts in surface water using ceramic nanofiltration membranes. Desalination, 2011, 277, 147-155.	4.0	33
17	Influence of organic loading rate on the performance of ultrafiltration and microfiltration membrane bioreactors at high sludge retention time. Chemical Engineering Journal, 2012, 181-182, 132-143.	6.6	32
18	Removal of emerging pollutants in water treatment plants: adsorption of methyl and propylparaben onto powdered activated carbon. Adsorption, 2019, 25, 983-999.	1.4	32

#	Article	IF	Citations
19	Quaternary liquid-liquid equilibrium: water-acetic acid-1-butanol-n-butyl acetate at 25°C. Fluid Phase Equilibria, 1984, 18, 171-183.	1.4	31
20	Effect of different extraction methods on bound EPS from MBR sludges. Desalination, 2010, 262, 106-109.	4.0	30
21	A case study of urban wastewater reclamation in Spain: comparison of water quality produced by using alternative processes and related costs. Journal of Water Reuse and Desalination, 2016, 6, 72-81.	1.2	28
22	Quaternary liquid-liquid equilibrium. Water-ethanol-1-butanol-chloroform at 25.degree.C. Experimental determination and graphical representation of equilibrium data. Journal of Chemical & Engineering Data, 1984, 29, 147-151.	1.0	27
23	Polychlorinated biphenyls and organochlorine pesticides in marine sediments and seawater along the coast of Alicante, Spain. Marine Pollution Bulletin, 1992, 24, 441-446.	2.3	27
24	Effect of temperature and organic nutrients on the biodegradation of linear alkylbenzene sulfonate (LAS) during the composting of anaerobically digested sludge from a wastewater treatment plant. Waste Management, 2006, 26, 1237-1245.	3.7	26
25	Analysis of the filterability in industrial MBRs. Influence of activated sludge parameters and constituents on filterability. Journal of Membrane Science, 2011, 385-386, 96-109.	4.1	25
26	Removal of Nickel by Means of Micellar-Enhanced Ultrafiltration (MEUF) Using Two Anionic Surfactants. Water, Air, and Soil Pollution, 2010, 208, 5-15.	1.1	24
27	Comparison of ion exchange resins used in reduction of boron in desalinated water for human consumption. Desalination, 2011, 278, 244-249.	4.0	24
28	The use of combined treatments for reducing parabens in surface waters: Ion-exchange resin and nanofiltration. Science of the Total Environment, 2018, 639, 228-236.	3.9	24
29	Las monitoring in a lagoon treatment plant. Water Research, 1994, 28, 2183-2189.	5.3	22
30	Kinetic behaviour of sodium and boron in brackish water membranes. Journal of Membrane Science, 2011, 368, 86-94.	4.1	20
31	Effect of temperature on the biodegradation of linear alkylbenzene sulfonate and alcohol ethoxylate. Journal of Surfactants and Detergents, 2006, 9, 69-75.	1.0	19
32	Urban Water Cycle Simulation/Management Models: A Review. Water (Switzerland), 2017, 9, 285.	1.2	19
33	Effect of current density on the efficiency of a membrane electro-bioreactor for removal of micropollutants and phosphorus, and reduction of fouling: A pilot plant case study. Journal of Environmental Chemical Engineering, 2021, 9, 104874.	3.3	19
34	Removal of micropollutants from urban wastewater using a UASB reactor coupled to a MBR at different organic loading rates. Urban Water Journal, 2018, 15, 437-444.	1.0	18
35	Biodegradation of soap in anaerobic digesters and on sludge amended soils. Water Research, 1999, 33, 105-108.	5.3	17
36	Forecasting Water Demand in Residential, Commercial, and Industrial Zones in Bogotá, Colombia, Using Least-Squares Support Vector Machines. Mathematical Problems in Engineering, 2016, 2016, 1-10.	0.6	17

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37	A reverse osmosis potable water plant at Alicante University: first years of operation. Desalination, 2001, 137, 91-102.	4.0	16
38	Modeling eutrophication kinetics in reservoir microcosms. Water Research, 1997, 31, 2511-2519.	5.3	14
39	Analysis of the variation in the permeate flux and of the efficiency of the recovery of mercury by polyelectrolyte enhanced ultrafiltration (PE-UF). Desalination, 2003, 151, 247-251.	4.0	14
40	Removal of natural organic matter by cationic and anionic polyacrylonitrile membranes. The effect of pressure, ionic strength and pH. Separation and Purification Technology, 2009, 68, 305-311.	3.9	14
41	Efficacy of atrazine pesticide reduction in aqueous solution using activated carbon, ozone and a combination of both. Science of the Total Environment, 2021, 764, 144301.	3.9	13
42	Temperature influence on the ternary system 1-butanol-butanone-water. Journal of Chemical & Engineering Data, 1984, 29, 143-146.	1.0	11
43	Reduction of disinfection by-products in natural waters using nanofiltration membranes. Desalination, 2010, 250, 702-706.	4.0	10
44	Liquid-liquid extraction: A graphical method for equilibrium stage calculations for quaternary systems. Fluid Phase Equilibria, 1984, 15, 257-265.	1.4	9
45	Quaternary liquid-liquid equilibrium: waterî—¸acetic acid-2-butanoneî—¸cyclohexane at 25Â°C. Fluid Phase Equilibria, 1995, 106, 203-211.	1.4	9
46	Influence of EPS and MLSS concentrations on mixed liquor physical parameters of two membrane bioreactors. Desalination and Water Treatment, 2012, 46, 46-59.	1.0	9
47	Alicante University, closed water cycle, reverse osmosis and water treatment plants. Desalination, 1997, 109, 315-321.	4.0	8
48	Fate of linear alkylbenzene sulfonate in agricultural soil columns during inflow of surfactant pulses. Journal of Hydrology, 2010, 395, 141-152.	2.3	8
49	Activated Carbon and Ozone to Reduce Simazine in Water. Water (Switzerland), 2020, 12, 2900.	1.2	8
50	Unravelling the removal mechanisms of bacterial and viral surrogates in aerobic granular sludge systems. Water Research, 2021, 195, 116992.	5.3	8
51	Determination of quaternary liquid-liquid equilibrium data using either measurements of a single physical property or the analysis of only one of the components. Application to the quarternary system: water-ethanol-chloroform-toluene at 25Â°C. Fluid Phase Equilibria, 1985, 23, 269-292.	1.4	7
52	Stability of kinetic models from waste stabilization ponds. Water Research, 1994, 28, 2125-2132.	5.3	7
53	Influence of temperature variations on the cake resistance and EPS of MBR mixed liquor fractions. Desalination and Water Treatment, 2010, 18, 1-11.	1.0	6
54	Start-up of decentralized MBRs. Desalination, 2012, 285, 324-335.	4.0	6

#	ARTICLE	IF	CITATIONS
55	Carbamazepine and Diclofenac Removal Double Treatment: Oxidation and Adsorption. International Journal of Environmental Research and Public Health, 2021, 18, 7163.	1.2	6
56	Temperature Effects in Anaerobic Biodegradation of Soaps in Anaerobic Screening Tests. Tenside, Surfactants, Detergents, 2005, 42, 40-43.	0.5	5
57	Fate of parabens and 4-hydroxybenzoic acid in aquifer materials columns during step experiments with fresh and sea waters. Journal of Hydrology, 2018, 557, 335-347.	2.3	5
58	Eliminación de pesticidas mediante un biorreactor de membrana y dos tiempos diferentes de retención celular. Tecnologia Y Ciencias Del Agua, 2018, 9, 198-217.	0.1	5
59	Study of the extracellular polymeric substances (EPS) in different types of membrane bioreactor (MBR) effluents. WIT Transactions on Ecology and the Environment, 2008, , .	0.0	5
60	Effects of Linear Alkylbenzene Sulfonates (LASs) in Sewage Sludge–Amended Soils on Nutrient Contents of Broccoli Plants. Communications in Soil Science and Plant Analysis, 2006, 37, 2605-2614.	0.6	4
61	Effect of pressure and pH over the removal of disinfection by-products using nanofiltration membranes in discontinuous systems. Desalination and Water Treatment, 2010, 23, 3-12.	1.0	4
62	MBR performance: Operational problems in industry. Filtration and Separation, 2011, 48, 36-41.	0.2	4
63	Evaluation of the methods of correlation and interpolation of quaternary liquid–liquid equilibrium data. Application to the system water–ethanol–chloroform–toluene at 25°C. Fluid Phase Equilibria, 1986, 25, 147-160.	1.4	2
64	KINETIC STUDY OF THE PYROLYSIS OF SEWAGE SLUDGE. Waste Management and Research, 1997, 15, 293-305.	2.2	2
65	Start-up of decentralised MBRs Part II: the use of additives as initial inoculum. Desalination and Water Treatment, 2012, 41, 265-278.	1.0	2
66	The elimination of siloxanes from the biogas of a wastewater treatment plant by means of an adsorption process. Water Science and Technology, 2016, 74, 2927-2934.	1.2	2
67	Reduction of haloacetic acids in natural surface water by integrated treatment: coagulation and membrane processes. , 0, 63, 24-33.		2
68	Effects of Linear Alkylbenzene Sulphonates (LASs) on Exogenous Organic Matter Content and Evolution in Sewage Sludge–Amended Soils. Communications in Soil Science and Plant Analysis, 2006, 37, 2615-2625.	0.6	0
69	Water reduction in waste-activated sludge by resettling and filtration in batch. Phase (1): pilot-scale experiments to optimize performance. Environmental Technology (United Kingdom), 2014, 35, 1928-1934.	1.2	0
70	Analysis of the temperature influence on the specific resistance from different fractions of the mixed liquor in a Membrane Bioreactor. WIT Transactions on Ecology and the Environment, 2009, , .	0.0	0
71	Evolution of extracellular polymeric substances produced in two submerged membrane bioreactors working at high sludge age. WIT Transactions on the Built Environment, 2014, , .	0.0	0
72	Influence of sludge retention time on filtration performance and biomass characteristics in a hollow fiber membrane bioreactor. WIT Transactions on the Built Environment, 2014, , .	0.0	0