

# Eligio P Rivero

## List of Publications by Year in descending order

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36  
papers

717  
citations

471061

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552369

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Arsenic removal from water by hybrid electro-regenerated anion exchange resin/electrodialysis process. <i>Separation and Purification Technology</i> , 2017, 184, 319-326.	3.9	102
2	Experimental study and mathematical modeling of the electrochemical degradation of dyeing wastewaters in presence of chloride ion with dimensional stable anodes (DSA) of expanded meshes in a FM01-LC reactor. <i>Electrochimica Acta</i> , 2018, 260, 726-737.	2.6	57
3	Design of a new FM01-LC reactor in parallel plate configuration using numerical simulation and experimental validation with residence time distribution (RTD). <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 85, 145-154.	1.8	46
4	Mass transfer modeling and simulation at a rotating cylinder electrode (RCE) reactor under turbulent flow for copper recovery. <i>Chemical Engineering Science</i> , 2010, 65, 3042-3049.	1.9	45
5	Analysis and interpretation of residence time distribution experimental curves in FM01-LC reactor using axial dispersion and plug dispersion exchange models with closed boundary conditions. <i>Electrochimica Acta</i> , 2010, 56, 361-371.	2.6	44
6	Numerical simulation of mass transport in a filter press type electrochemical reactor FM01-LC: Comparison of predicted and experimental mass transfer coefficient. <i>Chemical Engineering Research and Design</i> , 2012, 90, 1969-1978.	2.7	39
7	Modeling the effect of non-ideal flow pattern on tertiary current distribution in a filter-press-type electrochemical reactor for copper recovery. <i>Chemical Engineering Research and Design</i> , 2015, 100, 422-433.	2.7	38
8	CFD modeling of residence time distribution and experimental validation in a redox flow battery using free and porous flow. <i>Journal of Energy Storage</i> , 2020, 29, 101337.	3.9	29
9	Electrochemical oxidation of bio-refractory dye in a simulated textile industry effluent using DSA electrodes in a filter-press type FM01-LC reactor. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 573-583.	1.2	28
10	The FM01-LC reactor modeling using axial dispersion model with a reaction term coupled with a continuous stirred tank (CST). <i>Electrochimica Acta</i> , 2012, 63, 47-54.	2.6	24
11	Reactive diffusion migration layer and mass transfer wall function to model active chlorine generation in a filter press type electrochemical reactor for organic pollutant degradation. <i>Chemical Engineering Research and Design</i> , 2018, 138, 533-545.	2.7	24
12	Scale-up of rotating cylinder electrode electrochemical reactor for Cu(II) recovery: Experimental and simulation study in turbulence regimen. <i>Electrochimica Acta</i> , 2012, 77, 262-271.	2.6	22
13	Hydrodynamic study of a novel membrane aerated biofilm reactor (MABR): Tracer experiments and CFD simulation. <i>Chemical Engineering Science</i> , 2015, 138, 324-332.	1.9	21
14	Nickel recovery from an electroplating rinsing effluent using RCE bench scale and RCE pilot plant reactors: The influence of pH control. <i>Chemical Engineering Research and Design</i> , 2015, 97, 18-27.	2.7	20
15	Modelling the transport of ions and electrochemical regeneration of the resin in a hybrid ion exchange/electrodialysis process for As(V) removal. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 597-610.	1.5	19
16	Preparation and characterization of Sb <sub>2</sub> O <sub>5</sub> -doped Ti/RuO <sub>2</sub> -ZrO <sub>2</sub> for dye decolorization by means of active chlorine. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 3153-3162.	1.2	18
17	Modeling 3D current and potential distribution in a microbial electrolysis cell with augmented anode surface and non-ideal flow pattern. <i>Biochemical Engineering Journal</i> , 2020, 162, 107714.	1.8	18
18	Desalination of brackish water by electrodeionization: Experimental study and mathematical modeling. <i>Desalination</i> , 2021, 504, 114803.	4.0	18

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19	Adapted Pechini method to prepare DSA type electrodes of RuO <sub>2</sub> -ZrO <sub>2</sub> doped with Sb <sub>2</sub> O <sub>5</sub> over titanium plates. <i>MethodsX</i> , 2018, 5, 1613-1617.	0.7	14
20	Design, mathematical modelling, and numerical simulation of a novel tubular photoelectrochemical reactor and experimental validation by residence time distribution and mass transfer coefficients. <i>Chemical Engineering Journal</i> , 2020, 386, 123895.	6.6	14
21	Leaching of Metals from e-Waste: From Its Thermodynamic Analysis and Design to Its Implementation and Optimization. <i>ACS Omega</i> , 2021, 6, 12063-12071.	1.6	13
22	Calculation method of molecular weight averages in polymerization with chain-length-dependent termination. <i>Journal of Polymer Research</i> , 2005, 11, 309-315.	1.2	11
23	Electrochemical Treatment of Indigo Carmine Solutions via Active Chlorine in a FM01-LC Reactor Using DSA (Ti/IrO <sub>2</sub> /SnO <sub>2</sub> /Sb <sub>2</sub> O <sub>5</sub> ) Electrodes. <i>ECS Transactions</i> , 2011, 36, 529-538.	0.3	10
24	Modelling water dissociation, acid-base neutralization and ion transport in bipolar membranes for acid-base flow batteries. <i>Journal of Membrane Science</i> , 2022, 641, 119899.	4.1	10
25	Modelling of flow distribution within spacer-filled channels fed by dividing manifolds as found in stacks for membrane-based technologies. <i>Chemical Engineering Journal</i> , 2021, 423, 130232.	6.6	9
26	Nickel Removal from Rinse Waters Generated by Electroplating Industry Using a Rotating Cylinder Electrode (RCE) Reactor. <i>ECS Transactions</i> , 2009, 20, 313-325.	0.3	6
27	Modeling the kinetics of anionic polymerization in cyclohexane as a non-complexing solvent. <i>Journal of Polymer Research</i> , 2011, 18, 519-526.	1.2	6
28	Parametric Mathematical Modelling of Cristal Violet Dye Electrochemical Oxidation Using a Flow Electrochemical Reactor with BDD and DSA Anodes in Sulfate Media. <i>International Journal of Chemical Reactor Engineering</i> , 2018, 16, .	0.6	3
29	Numerical Investigations into the Influence of Operational Parameters on Diffusion and Migration in Electrodialytic Nitrate Removal. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 5014-5023.	1.8	3
30	Modeling and Simulation of a Rotating Cylinder Electrode Reactor for Metal Recovering. <i>ECS Transactions</i> , 2009, 20, 73-81.	0.3	2
31	Mass Transfer Modeling and Simulation under Turbulent Flow in Filter-Press-Type FM01-LC Electrochemical Reactor. <i>ECS Transactions</i> , 2010, 29, 205-214.	0.3	2
32	Electrogeneration of Active Chlorine in a Filter-Press-Type Reactor Using a New Sb <sub>2</sub> O <sub>5</sub> Doped Ti/RuO <sub>2</sub> -ZrO <sub>2</sub> Electrode: Indirect Indigoid Dye Oxidation. <i>International Journal of Chemical Reactor Engineering</i> , 2017, 15, .	0.6	2
33	Generation of Active Chlorine in Acid and Alkaline Medium Using a 3D Anode in an Electrochemical Reactor for Reactive Black 5 Degradation. <i>Journal of Advanced Oxidation Technologies</i> , 2018, 21, 149-158.	0.5	0
34	Mathematical Modelling of the Electrochemical Degradation of Dyeing Wastewaters in Presence of Chloride Ion in a FM01-LC Reactor with Expanded Meshes Anodes (DSA). <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
35	CFD Modelling of an Electrodialysis Cell. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
36	Study of the Transport of Ions through an Anion-Exchange Membrane By Electrochemical Methods. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0