Pedro E Arce

List of Publications by Year
in descending order

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24 papers	220 citations	1307594 7 h-index	996975 15 g-index
24 all docs	24 docs citations	24 times ranked	278 citing authors

#	Article	IF	Citations
1	Photocatalytic degradation of acetaminophen from water solutions via thin films part I: preparation, characteriation, and analysis of titanium dioxide thin films. International Journal of Chemical Reactor Engineering, 2022, 20, 97-112.	1.1	2
2	Photocatalytic degradation of acetaminophen in water via ultraviolet light and titanium dioxide thin films part II: chemical and kinetic aspects. International Journal of Chemical Reactor Engineering, 2022, 20, 113-127.	1.1	3
3	Influence of preâ€electrophoresis on protein separations in polyacrylamide gels. Journal of Applied Polymer Science, 2020, 137, 48994.	2.6	0
4	Understanding Collaborative Effects between the Polymer Gel Structure and the Applied Electrical Field in Gel Electrophoresis Separation. International Journal of Polymer Science, 2019, 2019, 1-15.	2.7	1
5	Joule Heating Effects in Electrokinetic Remediation: Role of Non-Uniform Soil Environments: Temperature Profile Behavior and Hydrodynamics. Environments - MDPI, 2018, 5, 92.	3.3	5
6	Investigation of UV/H₂O₂ pretreatment effects on humic acid fouling on polysulfone/titanium dioxideâ€"And polysulfone/multiwall carbon nanotubeâ€"Nanocomposite ultrafiltration membranes. Environmental Progress and Sustainable Energy, 2017, 36, 27-37.	2.3	11
7	The acquisition and transfer of knowledge of electrokinetic-hydrodynamics (EKHD) fundamentals: an introductory graduate-level course. European Journal of Engineering Education, 2017, 42, 493-512.	2.3	2
8	Sequential Use of UV/H2O2â€"(PSF/TiO2/MWCNT) Mixed Matrix Membranes for Dye Removal in Water Purification: Membrane Permeation, Fouling, Rejection, and Decolorization. Environmental Engineering Science, 2016, 33, 430-440.	1.6	45
9	Performance assessment of protein electrophoresis by using polyacrylamide hydrogel with porous structure modified with SDS micelles as template. Journal of Applied Polymer Science, 2016, 133, .	2.6	5
10	Assessing Performance of Irregular Microvoids in Electrophoresis Separations. Industrial & Engineering Chemistry Research, 2015, 54, 10434-10441.	3.7	4
11	Role of Aspect Ratio and Joule Heating within the Fluid Region Near a Cylindrical Electrode in Electrokinetic Remediation: A Numerical Solution based on the Boundary Layer Model. International Journal of Chemical Reactor Engineering, 2013, 11, 687-699.	1.1	2
12	Role of Joule Heating in Electro-Assisted Processes: A Boundary Layer Approach for Rectangular Electrodes. International Journal of Chemical Reactor Engineering, 2013, 11, 815-823.	1.1	2
13	Effect of magnetization on the gel structure and protein electrophoresis in polyacrylamide hydrogel nanocomposites. Journal of Applied Polymer Science, 2012, 126, 1600-1612.	2.6	8
14	Effect of capillary geometry on predicting electroosmotic volumetric flowrates in porous or fibrous media. Journal of Colloid and Interface Science, 2012, 378, 241-250.	9.4	7
15	Effect of wall velocities on the determination of optimal separation times in electrical field flow fractionation (EFFF). Canadian Journal of Chemical Engineering, 2010, 88, 384-391.	1.7	0
16	Preliminary Observations of the Role of Material Morphology on Protein-Electrophoretic Transport in Gold Nanocomposite Hydrogels. Industrial & Engineering Chemistry Research, 2010, 49, 12104-12110.	3.7	6
17	Role of Nanocomposite Hydrogel Morphology in the Electrophoretic Separation of Biomolecules: A Review. Industrial & Engineering Chemistry Research, 2010, 49, 11866-11877.	3.7	33
18	Optimal separation times for electrical field flow fractionation with Couette flows. Electrophoresis, 2008, 29, 4238-4246.	2.4	3

#	Article	IF	Citations
19	The Art and Science of Upscaling. , 2005, , 1-39.		3
20	Role of geometrical dimensions in electrophoresis applications with orthogonal fields. Electrophoresis, 2005, 26, 2857-2866.	2.4	7
21	Title is missing!. Transport in Porous Media, 2002, 47, 279-293.	2.6	20
22	Effective Diffusivities of Point-Like Molecules in Isotropic Porous Media by Monte Carlo Simulation. Transport in Porous Media, 2000, 38, 241-259.	2.6	45
23	AN INTEGRAL-SPECTRAL FORMULATION FOR CONVECTIVE-DIFFUSIVE TRANSPORT IN A PACKED-BED WITH ADSORPTION AT THE WALL AND BULK REACTION. Chemical Engineering Communications, 1995, 138, 113-125.	2.6	3
24	Convective-Diffusive Transport and Reaction in Arterial Stenoses Using Lubrication and Area-Averaging Methods. Industrial & Engineering Chemistry Research, 1995, 34, 3426-3436.	3.7	3