# Juan Pedro GarcÃ-a Villaluenga

List of Publications by Year
in descending order



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|---|---|---|---|
| 44 papers | 1,216 citations | 394421 19 h-index | 377865 34 g-index |
| 45 all docs | 45 docs citations | 45 times ranked | 1420 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Cooperative kinetics of ligand binding to linear polymers. Computational and Structural Biotechnology Journal, 2022, 20, 521-533. | 4.1 | 3 |
| 2 | Noncooperative thermodynamics and kinetic models of ligand binding to polymers: Connecting McGheeâ€“von Hippel model with the Tonks gas model. Physical Review E, 2020, 102, 012407. | 2.1 | 6 |
| 3 | Electro-Osmotic Behavior of Polymeric Cation-Exchange Membranes in Ethanol-Water Solutions. Entropy, 2020, 22, 692. | 2.2 | 0 |
| 4 | Reliability of rectified transport: Coherence and reproducibility of transport by open-loop and feedback-controlled Brownian ratchets. Physical Review E, 2018, 98, . | 2.1 | 4 |
| 5 | Mechanics, thermodynamics, and kinetics of ligand binding to biopolymers. PLoS ONE, 2017, 12, e0174830. | 2.5 | 20 |
| 6 | Estimation of the temperature of a radiating body by measuring the stationary temperatures of a thermometer placed at different distances. European Journal of Physics, 2016, 37, 045104. | 0.6 | 1 |
| 7 | Experimental determination of the streaming potential across cation-exchange membranes with different morphologies. Journal of Membrane Science, 2016, 500, 16-24. | 8.2 | 10 |
| 8 | Optimal protocol for a collective flashing ratchet. Europhysics Letters, 2014, 107, 10006. | 2.0 | 5 |
| 9 | A non-equilibrium thermodynamics model of multicomponent mass and heat transport in pervaporation processes. Journal of Non-Equilibrium Thermodynamics, 2012, 37, . | 4.2 | 7 |
| 10 | Water uptake and salt transport through Nafion cation-exchange membranes with different thicknesses. Chemical Engineering Science, 2012, 72, 1-9. | 3.8 | 50 |
| 11 | Methanol-Water Solution Transport in Nafion Membranes with Different Cationic Forms. Separation Science and Technology, 2011, 46, 944-949. | 2.5 | 3 |
| 12 | Liquid transport through sulfonated cation-exchange membranes for different waterâ€“alcohol solutions. Chemical Engineering Journal, 2010, 162, 643-648. | 12.7 | 14 |
| 13 | Fluid flow modeling in a sulfonated cationâ€exchange membrane. Journal of Applied Polymer Science, 2009, 114, 1412-1416. | 2.6 | 1 |
| 14 | Study of the activation energy for transport of water and methanol through a Nafion membrane. Chemical Engineering Journal, 2009, 152, 20-25. | 12.7 | 21 |
| 15 | Experimental estimation of equilibrium and transport properties of sulfonated cation-exchange membranes with different morphologies. Journal of Colloid and Interface Science, 2009, 333, 497-502. | 9.4 | 13 |
| 16 | Salt diffusion through cation-exchange membranes in alcoholâ€“water solutions. Separation and Purification Technology, 2009, 64, 321-325. | 7.9 | 7 |
| 17 | Study of the Internal Morphology of Cation-Exchange Membranes by Means of Electroosmotic Permeability Relaxations. Journal of Physical Chemistry B, 2009, 113, 12952-12957. | 2.6 | 2 |
| 18 | Swelling and electro-osmotic properties of cation-exchange membranes with different structures in methanolâ€“water media. Journal of Power Sources, 2008, 185, 822-827. | 7.8 | 17 |

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|---|---|---|---|
| 19 | Comparative study of liquid uptake and permeation characteristics of sulfonated cation-exchange membranes in water and methanol. Journal of Membrane Science, 2008, 323, 421-427. | 8.2 | 24 |
| 20 | Millable Polyurethane/Organoclay Nanocomposites: Preparation, Characterization, and Properties. Journal of Nanoscience and Nanotechnology, 2007, 7, 634-640. | 0.9 | 8 |
| 21 | Gas transport properties of polypropylene/clay composite membranes. European Polymer Journal, 2007, 43, 1132-1143. | 5.4 | 118 |
| 22 | Gas permeation characteristics of heterogeneous ODPAâ€“BIS P polyimide membranes at different temperatures. Journal of Membrane Science, 2007, 305, 160-168. | 8.2 | 21 |
| 23 | Poly(2,6-dimethyl-1,4-phenylene oxide) mixed matrix pervaporation membranes. Desalination, 2006, 200, 376-378. | 8.2 | 4 |
| 24 | Sorption and permeation of solutions of chloride salts, water and methanol in a Nafion membrane. Electrochimica Acta, 2006, 51, 6297-6303. | 5.2 | 28 |
| 25 | Water and methanol transport in Nafion membranes with different cationic forms. Journal of Power Sources, 2006, 160, 181-186. | 7.8 | 29 |
| 26 | Thermo-osmosis of mixtures of water and methanol through a Nafion membrane. Journal of Membrane Science, 2006, 274, 116-122. | 8.2 | 54 |
| 27 | Analysis of the membrane thickness effect on the pervaporation separation of methanol/methyl tertiary butyl ether mixtures. Separation and Purification Technology, 2005, 47, 80-87. | 7.9 | 37 |
| 28 | Numerical model of non-isothermal pervaporation in a rectangular channel. Journal of Membrane Science, 2005, 260, 119-130. | 8.2 | 22 |
| 29 | Filled poly(2,6-dimethyl-1,4-phenylene oxide) dense membranes by silica and silane modified silica nanoparticles: characterization and application in pervaporation. Polymer, 2005, 46, 9881-9891. | 3.8 | 85 |
| 30 | Simultaneous electroosmotic and permeation flows through a Nafion membrane. Journal of Colloid and Interface Science, 2005, 288, 540-547. | 9.4 | 4 |
| 31 | Simultaneous electroosmotic and permeation flows through a Nafion membrane. Journal of Colloid and Interface Science, 2004, 277, 176-183. | 9.4 | 11 |
| 32 | Preparation and application of dense poly(phenylene oxide) membranes in pervaporation. Journal of Colloid and Interface Science, 2004, 278, 410-422. | 9.4 | 77 |
| 33 | On the methanolâ€“water electroosmotic transport in a Nafion membrane. Journal of Membrane Science, 2004, 236, 109-120. | 8.2 | 26 |
| 34 | Transport of methanol and water through Nafion membranes. Journal of Power Sources, 2004, 130, 22-29. | 7.8 | 50 |
| 35 | Pervaporation of Alcohols and Methyltert-Butyl Ether through a Dense Poly(2,6-dimethyl-1,4-phenylene oxide) Membrane. Industrial & Engineering Chemistry Research, 2004, 43, 2548-2555. | 3.7 | 19 |
| 36 | Osmotic behavior of a Nafion membrane in methanolâ€“water electrolyte solutions. Journal of Colloid and Interface Science, 2003, 263, 217-222. | 9.4 | 8 |

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|---|---|---|---|
| 37 | Permeation of electrolyte waterâ€“methanol solutions through a Nafion membrane. Journal of Colloid and Interface Science, 2003, 268, 476-481. | 9.4 | 28 |
| 38 | Pervaporation of Toluene/Alcohol Mixtures through a Coextruded Linear Low-Density Polyethylene Membrane. Industrial & Engineering Chemistry Research, 2003, 42, 386-391. | 3.7 | 25 |
| 39 | Annealing-Induced Enhancement of the Gas Diffusivity in Coextruded LLDPE Films Investigated by Positron Lifetime Spectroscopy. Macromolecules, 2002, 35, 8088-8092. | 4.8 | 8 |
| 40 | Experimental estimation of gas-transport properties of linear low-density polyethylene membranes by an integral permeation method. Journal of Applied Polymer Science, 2001, 82, 3013-3021. | 2.6 | 22 |
| 41 | Permeation of carbon dioxide through multiple linear low-density polyethylene films. European Polymer Journal, 2000, 36, 1697-1702. | 5.4 | 6 |
| 42 | A review on the separation of benzene/cyclohexane mixtures by pervaporation processes. Journal of Membrane Science, 2000, 169, 159-174. | 8.2 | 283 |
| 43 | Diffusional characteristics of coextruded linear low-density polyethylenes prepared from different conditions of processing. Journal of Applied Polymer Science, 1998, 70, 23-37. | 2.6 | 13 |
| 44 | Influence of drawing on gas transport mechanism in LLDPE films. Polymer, 1998, 39, 3955-3965. | 3.8 | 18 |