Gustavo A Fimbres Weihs

List of Publications by Year
in descending order

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41	1,173	393982	377514
papers	citations	19 h-index	34 g-index

43	43	43	730
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Scoping study of the economics of CO2 transport and storage options for steel manufacturing emissions in eastern Australia. International Journal of Greenhouse Gas Control, 2022, 114, 103592.	2.3	3
2	3D CFD study of hydrodynamics and mass transfer phenomena for spiral wound membrane submerged-type feed spacer with different node geometries and sizes. International Journal of Heat and Mass Transfer, 2022, 191, 122819.	2.5	15
3	Preparation of Thin-Film Composite Nanofiltration Membranes Doped with N- and Cl-Functionalized Graphene Oxide for Water Desalination. Polymers, 2021, 13, 1637.	2.0	11
4	Coupled effects of circular and elliptical feed spacers under forced-slip on viscous dissipation and mass transfer enhancement based on CFD. Journal of Membrane Science, 2021, 637, 119599.	4.1	19
5	Improving Thermal Distribution in Water-Cooled PV Modules and Its Effect on RO Permeate Recovery. Water (Switzerland), 2021, 13, 229.	1.2	5
6	Comparison of oscillating flow and slip velocity mass transfer enhancement in spacer-filled membrane channels: CFD analysis and validation. Journal of Membrane Science, 2020, 593, 117433.	4.1	21
7	CFD study of the effect of SWM feed spacer geometry on mass transfer enhancement driven by forced transient slip velocity. Journal of Membrane Science, 2020, 597, 117643.	4.1	24
8	A Review of CFD Modelling and Performance Metrics for Osmotic Membrane Processes. Membranes, 2020, 10, 285.	1.4	26
9	Effect of seawater variability on endemic bacterial biofouling of a reverse osmosis membrane coated with iron nanoparticles (FeNPs). Chemical Engineering Science, 2020, 223, 115753.	1.9	15
10	The techno-economic case for coupling advanced spacers to high-permeance RO membranes for desalination. Desalination, 2020, 491, 114534.	4.0	22
11	3D CFD study on hydrodynamics and mass transfer phenomena for SWM feed spacer with different floating characteristics. Chemical Engineering Research and Design, 2020, 159, 36-46.	2.7	25
12	DESIGN AND MANUFACTURING OF A PULSATILE VALVE FOR GENERATING VARIABLE FLOWS IN REVERSE OSMOSIS DESALINATION MODULES. Dyna (Spain), 2020, 95, 509-513.	0.1	3
13	Biofouling performance of RO membranes coated with Iron NPs on graphene oxide. Desalination, 2019, 451, 45-58.	4.0	39
14	Biofouling of FeNP-Coated SWRO Membranes with Bacteria Isolated after Pre-Treatment in the Sea of Cortez. Coatings, 2019, 9, 462.	1.2	8
15	3D CFD study of the effect of multi-layer spacers on membrane performance under steady flow. Journal of Membrane Science, 2019, 580, 256-267.	4.1	52
16	A CFD study on the effect of membrane permeance on permeate flux enhancement generated by unsteady slip velocity. Journal of Membrane Science, 2018, 556, 138-145.	4.1	25
17	CFD study of the effect of unsteady slip velocity waveform on shear stress in membrane systems. Chemical Engineering Science, 2018, 192, 16-24.	1.9	24
18	From Building Blocks to Case Studies: Estimating the Costs of Transport and Storage for East Coast Australia. Energy Procedia, 2017, 114, 6411-6417.	1.8	1

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19	Biofouling Studies on Thin Film Composite Membranes for Reverse Osmosis Desalination Processes. , 2017, , 99-104.		3
20	COMPARACIÃ“N DE MÃ‰TODOS DE DESCARGA PARA VERTIDOS DE SALMUERAS, PROVENIENTES DE UNA PLANTA DESALINIZADORA EN SONORA, MÃ‰XICO. Revista Internacional De Contaminacion Ambiental, 2017, 33, 45-54.	0.1	4
21	CFD modelling of electro-osmotic permeate flux enhancement in spacer-filled membrane channels. Journal of Membrane Science, 2016, 507, 107-118.	4.1	28
22	Effects of pipeline distance, injectivity and capacity on CO 2 pipeline and storage site selection. International Journal of Greenhouse Gas Control, 2016, 51, 95-105.	2.3	10
23	CFD modelling of unsteady electro-osmotic permeate flux enhancement in membrane systems. Chemical Engineering Science, 2016, 146, 189-198.	1.9	21
24	Spatio-temporal frequency response analysis of forced slip velocity effect on solute concentration oscillations in a reverse osmosis membrane channel. Computers and Chemical Engineering, 2016, 84, 151-161.	2.0	13
25	Reduced-order model for the analysis of mass transfer enhancement in membrane channel using electro-osmosis. Chemical Engineering Science, 2015, 122, 86-96.	1.9	14
26	Mixing Index. , 2015, , 1-3.		0
27	Effect of storage capacity on CO2 pipeline optimisation. Energy Procedia, 2014, 63, 2757-2763.	1.8	2
28	CFD analysis of tracer response technique under cake-enhanced osmotic pressure. Journal of Membrane Science, 2014, 449, 38-49.	4.1	19
29	Approximation for modelling electro-osmotic mixing in the boundary layer of membrane systems. Journal of Membrane Science, 2014, 450, 18-27.	4.1	38
30	Optimal pipeline design for CCS projects with anticipated increasing CO2 flow rates. International Journal of Greenhouse Gas Control, 2014, 31, 165-174.	2.3	18
31	CFD modelling of electro-osmotic permeate flux enhancement on the feed side of a membrane module. Journal of Membrane Science, 2014, 470, 378-388.	4.1	39
32	Understanding the Economic Feasibility of Ship Transport of CO2 within the CCS Chain. Energy Procedia, 2014, 63, 2630-2637.	1.8	15
33	Optimal Pipeline Design with Increasing CO2 Flow Rates. Energy Procedia, 2013, 37, 3089-3096.	1.8	9
34	Control study on mixing enhancement in boundary layers of membrane systems. Journal of Process Control, 2013, 23, 1197-1204.	1.7	12
35	Steady-state design of CO2 pipeline networks for minimal cost per tonne of CO2 avoided. International Journal of Greenhouse Gas Control, 2012, 8, 150-168.	2.3	36
36	Steady-state optimisation of CCS pipeline networks for cases with multiple emission sources and injection sites: South-east Queensland case study. Energy Procedia, 2011, 4, 2748-2755.	1.8	26

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37	Review of 3D CFD modeling of flow and mass transfer in narrow spacer-filled channels in membrane modules. Chemical Engineering and Processing: Process Intensification, 2010, 49, 759-781.	1.8	252
38	Numerical study of two-dimensional multi-layer spacer designs for minimum drag and maximum mass transfer. Journal of Membrane Science, 2008, 325, 809-822.	4.1	51
39	Numerical study of mass transfer in three-dimensional spacer-filled narrow channels with steady flow. Journal of Membrane Science, 2007, 306, 228-243.	4.1	142
40	Unsteady Flows with Mass Transfer in Narrow Zigzag Spacer-Filled Channels:â€‰ A Numerical Study. Industrial & Engineering Chemistry Research, 2006, 45, 6594-6603.	1.8	81
41	Structural modification of polysulfone/NMP membranes: effect of chloroform as co-solvent. Polymer Bulletin, 0, , 1.	1.7	1