



Faculty Name:	Jorge Federico Gabitto	Work Address:	P.O. Box 519; MS 2505 Prairie View, TX 77446
Position Title:	Professor		
Office Location:	C. L. Wilson, 201J		
Office Phone:	936-261-9409		
Email Address:	jfgabitto@pvamu.edu		

Education:	Degree and Area of Study	Institution Name	Degree Date
	Ph. D., Chemical Engineering	University of Buenos Aires, Argentina	1986
	B. S., Industrial Chemistry	University of Buenos Aires, Argentina	1979

Teaching Experience	Position Title	Institution Name	Position Dates (Beginning and End)
	Professor	PVAMU	1991 - Present
	Teaching Assistant	University of Buenos Aires, Argentina	1983 - 1987

Professional Publications:	
	a. Gabitto, J. F. and Tsouris, C. "A Review of Transport Models in Charged Porous Electrodes," <i>Frontiers in Chem. Eng.</i> , 4 :1051594, doi: 10.3389/fceng.2022.1051594 , 2023.
	b. Gabitto, J. F. and Tsouris, C. "Reaction Temperature Manipulation as a Process Intensification Approach for CO ₂ Absorption," <i>Energies</i> 2023, <i>16</i> , 6522, https://doi.org/10.3390/en16186522 .
	c. Shamim, N., Binzaid, Sh., Gabitto, J., and Attia, J. "A Combined Chemical-Electrochemical Process to Capture CO ₂ and Produce Hydrogen and Electricity," <i>Energies</i> 2021, <i>14</i> , 5807. https://doi.org/10.3390/en14185807 .
	d. Shamim, N., Binzaid, Sh., Gabitto, J., and Attia, J. "A Combined Chemical-Electrochemical Process to Capture CO ₂ and Produce Hydrogen and Electricity," <i>Energies</i> 2021, <i>14</i> , 5807. https://doi.org/10.3390/en14185807 .
	e. Kasturi, A.; Gabitto, J. F.; Custelcean, R.: and Tsouris, C "A Process Intensification Approach for CO ₂ Absorption using Amino Acid Solutions and a Guanidine Compound," <i>Energies</i> 2021, <i>14</i> , 5821, https://doi.org/10.3390/en14185821 .
	f. Kasturi, A.; Gabitto, J.; Tsouris, C; Custelcean, R. "Carbon Dioxide Capture with Aqueous Amino Acids: Mechanistic Study of Amino Acid Regeneration by Guanidine Crystallization and Process Intensification," <i>Separation & Purification Technology</i> , <i>271</i> , 118839 (2021). doi.org/10.1016/j.seppur.2021.118839.
	g. Tang, K., Yiacoumi, S., Li, Y., Gabitto, J., and Tsouris, C. "Optimal Conditions for Efficient Flow-

	Electrode Capacitive Deionization.” <i>Sep. Sci. & Tech.</i> , DOI: 10.1016/j.seppur.2020.116626, 2020
	h. Kasturi, A. S., Ladshaw, A., Yiacoumi, S., Gabitto, J., Garrabrant, K., Custelcean, R., and Tsouris, C. “CO ₂ Absorption from Simulated Flue Gas in a Bubble Column,” <i>Sep. Sci. & Tech.</i> , DOI: 10.1080/01496395.2019.1617745, 2019.
	i. Gabitto, J., Custelcean, R., and Tsouris, C. “Simulation of Carbon Dioxide Absorption by Amino Acids in Two-Phase Batch and Bubble Column Reactors,” <i>Sep. Sci. & Tech.</i> , DOI: 10.1080/01496395.2019.1609030, 2019.
	j. Tang, K., Gabitto, J., Yiacoumi, S., and Tsouris, C. “Seawater Desalination by Over-Potential Membrane Capacitive Deionization: Opportunities and Hurdles.” <i>Chem. Eng. Journal</i> , 357 , 103-111, 2019.
	k. Gabitto, J. and Tsouris, C. “Modeling Sulfur Poisoning of Palladium Membranes Used for Hydrogen Separation.” <i>Int. Journal of Chem. Eng.</i> , vol. 2019, Article ID 9825280, https://doi.org/10.1155/2019/9825280357 , 103-111, 2019.
Additional Trainings/Skills:	Paper reviewer for several journals.
	Proposal reviewer for several agencies.
	Project reviewer Oak Ridge National Laboratory
	Editor Journal <i>Frontiers in Chemical Engineering</i> (2019 – present)
	Guest Editor Journal <i>Energies</i> for Special Issue on Novel Technologies for CO ₂ Sequestration (2020)
	Safety officer Oak Ridge National Laboratory (2001 – present)