Employment

Escuela Nacional de Ciencias Biológicas (ENCB)
Mexico
1 Mar 2018 → present

Research interests

Procesos catalíticos aplicados a la producción de hidrógeno, biodiésel, y diésel con ultrabajo contenido de azufre. Además, me he enfocado en el proceso de adsorcióncomo etapa previa para la producción de diésel conbajo contenido de azufre

Research outputs

Depolymerization of lignin by extracellular activity of Pycnoporus cinnabarinus, to obtain cellulose
Guzmán Gil, R., González Brambila, O. M., Velasco Bedrán, H., García Martínez, J. C., Colín Luna, J. A. & González Brambila, M. M., 1 Apr 2023, In: International Journal of Chemical Reactor Engineering. 21, 4, p. 445-460 16 p.

Hydrodesulfurization of 4,6-Dimethyldibenzothiophene on NiMoP/γ-Al_2O_3catalyst under reactive distillation conditions in a micro trickle bed reactor: Solvent and temperature effect
García-Martínez, J. C., Chávez-Esquivel, G., Colín-Luna, J. A. & De Los Reyes-Heredia, J. A., 1 Apr 2023, In: International Journal of Chemical Reactor Engineering. 21, 4, p. 413-429 17 p.

Ethanol production from Mexican fruit wastes using a new Saccharomyces cerevisiae strain
Antonio-Narcizo, L. C., Pérez-Pérez, W. D., Tomasini, A., García-Martínez, J. C. & León-Santiestebán, H. H., 1 Jan 2023, In: Revista Mexicana de Ingeniera Quimica. 22, 1, Bio2977.

Effect of thermo-alkali treatment on the morphological and electrochemical properties of biopolymer electrolytes based on corn starch–$Al(OH)_3$
Chavez-Esquivel, G., García-Martínez, J. C., Cervantes-Cuevas, H., Acosta, D. & Vera-Ramírez, M. A., Jul 2022, In: Polymer Bulletin. 79, 7, p. 5139-5164 26 p.

Optimal conditions determination for hydrodeoxygenation of free fatty acids to obtain green diesel
Durán-Pérez, F. J., Zamora, G. E., Medina Mendoza, A. K., González-Brambila, M. M., Tapia, C., Colín-Luna, J. A. & García Martínez, J. C., Apr 2021, In: Canadian Journal of Chemical Engineering. 99, 4, p. 947-958 12 p.

Simultaneous adsorption of quinoline and dibenzothiophene over Ni-based mesoporous materials at different Si/Al ratio
Alvarado-Perea, L., Colín-Luna, J. A., López-Gaona, A., Wolff, T., Pacheco-Sosa, J. G. & García-Martínez, J. C., 15 Aug 2020, In: Catalysis Today. 353, p. 26-38 13 p.

Zn supported on Zr modified mesoporous SBA-15 as sorbents of pollutant precursors contained in fossil fuels: Si/Zr ratio effect
Colín-Luna, J. A., Zamora-Rodea, G. E., Medina-Mendoza, A. K., Alvarado-Perea, L., Angeles-Chávez, C., Escobar, J., Pacheco-Sosa, J. G. & García Martínez, J. C., 15 Aug 2020, In: Catalysis Today. 353, p. 63-72 10 p.

Atrazine biodegradation in soil by Aspergillus niger
Herrera-Gallardo, B. E., Guzmán-Gil, R., Colín-Luna, J. A., García-Martínez, J. C., León-Santiesteban, H. H., González-Brambila, O. M. & González-Brambila, M. M., 2020, (Accepted/In press) In: Canadian Journal of Chemical Engineering. 99 , 4, p. 932-946 15 p.

The influence of Al_2O_3 content on Al_2O_3-ZrO_2 composite-textural structural and morphological studies
Chavez-Esquivel, G., Garcia-Martinez, J. C., De Los Reyes, J. A., Suárez-Toriello, V. A., Vera-Ramirez, M. A. & Huerta, L. , 7 Aug 2019, In: Materials Research Express. 6, 10, 105201.

A Kinetic Model of Photocatalytic Hydrogen Production Employing a Hole Scavenger
Durán-Pérez, J. F., García-Martínez, J. C., Medina-Mendoza, A. K., Puebla-Núñez, H., González-Brambila, M. M. & Colín-Luna, J. A., Apr 2019, In: Chemical Engineering and Technology. 42, 4, p. 874-881 8 p.

A Kinetic Model of Photocatalytic Hydrogen Production Employing a Hole Scavenger
Durán-Pérez, J. F., García-Martínez, J. C., Medina-Mendoza, A. K., Puebla-Núñez, H., González-Brambila, M. M. & Colín-Luna, J. A., 2019, In: Chemical Engineering and Technology.

Biodiesel production using immobilized lipase supported on a zirconium-pillared clay. Effect of the immobilization method
Colín-Luna, J. A., Zamora-Rodea, E. G., González-Brambila, M. M., Barrera-Calva, E., Rosas-Cedillo, R., Medina-Mendoza, A. K. & García-Martínez, J. C., 27 Nov 2018, In: International Journal of Chemical Reactor Engineering. 16, 11, 20170260.

Nitrogen Adsorption Compounds in the Presence of Dibenzothiophene on Mesoporous Materials for Obtaining Ultra-Low-Sulfur Diesel
García-Martínez, J. C., Medina, C. R. T., González-Brambila, M. M., Medina-Mendoza, A. K. & Colín-Luna, J. A., 27 Nov 2018, In: International Journal of Chemical Reactor Engineering. 16, 11, 20170238.

Effect of Ni on MCM-41 in the Adsorption of Nitrogen and Sulfur Compounds to Obtain Ultra-Low-Sulfur Diesel
García-Martínez, J. C., González-Uribe, H. A., González-Brambila, M. M., del Río, N. G. F., López-Gaona, A., Alvarado-Perea, L. & Colín-Luna, J. A., 1 Oct 2018, In: Topics in Catalysis. 61, 15-17, p. 1721-1733 13 p.

Selective adsorption of nitrogen compounds using silica-based mesoporous materials as a pretreatment for deep hydrodesulfurization
García-Martínez, J. C., González Uribe, H. A., González-Brambila, M. M., Colín-Luna, J. A., Escobedo-García, Y. E., López-Gaona, A. & Alvarado-Perea, L., 1 May 2018, In: Catalysis Today. 305, p. 40-48 9 p.

Hydrodesulfurization of dibenzothiophene in a micro trickle bed catalytic reactor under operating conditions from reactive distillation
García-Martínez, J. C., Dutta, A., Chávez, G., De Los Reyes, J. A. & Castillo-Araiza, C. O., 1 Jun 2016, In: International Journal of Chemical Reactor Engineering. 14, 3, p. 769-783 15 p.

Role of Pt-Pd/γ-Al_2O_3 on the HDS of 4,6-DMBT: Kinetic modeling & contribution analysis
Castillo-Araiza, C. O., Chávez, G., Dutta, A., De Los Reyes, J. A., Nuñez, S. & García-Martínez, J. C., Apr 2015, In: Fuel Processing Technology. 132, p. 164-172 9 p.

Kinetics of HDS and of the inhibitory effect of quinoline on HDS of 4,6-DMDBT over a Ni-Mo-P/Al_2O_3 catalyst: Part I
García-Martínez, J. C., Castillo-Araiza, C. O., De los Reyes Heredia, J. A., Trejo, E. & Montesinos, A., 1 Nov 2012, In: Chemical Engineering Journal. 210, p. 53-62 10 p.

Highly active MoS_2 on wide-pore ZrO_2-TiO_2 mixed oxides
Barrera, M. C., Viniegra, M., Escobar, J., Vrinat, M., De Los Reyes, J. A., Murrieta, F. & García, J., 24 Nov 2004, In: Catalysis Today. 98, 1-2 SPEC. ISS., p. 131-139 9 p.

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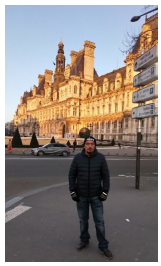

Dr. Julio César García Martínez