

Empleo

Escuela Nacional de Ciencias Biológicas (ENCB)
México
1 mar. 2018 → present

Intereses de la investigación

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

Resultado de la investigación

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 abr. 2023, En: International Journal of Chemical Reactor Engineering. 21, 4, p. 445-460 16 p.

Hydrodesulfurization of 4,6-Dimethylbenzothiophene on NiMoP/ γ -Al₂O₃ catalyst 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 abr. 2023, En: 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-Narciso, L. C., Pérez-Pérez, W. D., Tomasini, A., García-Martínez, J. C. & León-Santiestebán, H. H., 1 ene. 2023, En: Revista Mexicana de Ingeniería Química. 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, En: 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., abr. 2021, En: 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 ago. 2020, En: 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 ago. 2020, En: 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, (Aceptada/en prensa) En: Canadian Journal of Chemical Engineering. 99, 4, p. 932-946 15 p.

The influence of Al₂O₃ content on Al₂O₃-ZrO₂ composite-textural structural and morphological studies

Chavez-Esquivel, G., García-Martínez, J. C., De Los Reyes, J. A., Suárez-Toriello, V. A., Vera-Ramirez, M. A. & Huerta, L., 7 ago. 2019, En: 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., abr. 2019, En: 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, En: 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, En: 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, En: 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, En: 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, En: 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, En: International Journal of Chemical Reactor Engineering. 14, 3, p. 769-783 15 p.

Role of Pt-Pd/ γ -Al₂O₃ 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., abr. 2015, En: 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/Al₂O₃ catalyst: Part I

García-Martínez, J. C., Castillo-Araiza, C. O., De los Reyes Heredia, J. A., Trejo, E. & Montesinos, A., 1 nov. 2012, En: Chemical Engineering Journal. 210, p. 53-62 10 p.

Highly active MoS₂ on wide-pore ZrO₂-TiO₂ mixed oxides

Barrera, M. C., Viniegra, M., Escobar, J., Vrnat, M., De Los Reyes, J. A., Murrieta, F. & García, J., 24 nov. 2004, En: Catalysis Today. 98, 1-2 SPEC. ISS., p. 131-139 9 p.

Julio César García Martínez

Escuela Nacional de Ciencias Biológicas (ENCB)

Tipo de dirección: Dirección postal.

México

Correo electrónico: jcgarciam@ipn.mx



Dr. Julio César García Martínez