



UNIVERSIDAD AUTÓNOMA DEL
ESTADO DE MORELOS



Facultad de Ciencias
Químicas e Ingeniería

PROFESORA INVESTIGADORA DE TIEMPO COMPLETO, FCQel.



Nombre del Investigador: Dra. Ave María Cotero Villegas

Área del conocimiento: Química Inorgánica

Líneas de investigación: Síntesis y caracterización de complejos de elementos representativos

Últimas publicaciones:

1.- Synthesis, spectral characterization, crystal structures, and DFT study of three new La(III) 2-amino-1-cyclopentene-1-carbodithioate. *Hernández-Jiménez Christopher Christian, Cea-Olivares Raymundo, Tlahuext Hugo, López-Cardoso Marcela, Román-Bravo Perla, Vargas-Pineda Diana Gabriela, Cotero-Villegas Ave María, Pérez-Redondo Carmen, J. Barroso-Flores, V. Jancik. 2021, Journal of Molecular Structure.*

2. Organotin(IV) azepane dithiocarbamates: Synthesis and characterization of the first organotin(IV) complexes with seven-membered cyclic dithiocarbamates. *“Cotero-Villegas, A.M., Pérez-Redondo, M.D.C., López-Cardoso, M., Toscano, A., Cea-Olivares, R.” “2020 Phosphorus, Sulfur and Silicon and the Related Elements.*

3.- Synthesis, crystal structure, antibacterial, antiproliferative and QSAR studies of new bismuth(III) complexes of pyrrolidinedithiocarbamate of dithia- bismolane and bismane, oxodithia- and trithia-bismocane *Marcela López-Cardoso, a* Hugo Tlahuext, a Marco Pérez-Salgado, a Diana G. Vargas-Pineda, a Perla P. Román-Bravo, a Ave María Cotero-Villegas, b Macdiel Acevedo-Quiroz, c Rodrigo S. Razo-Hernández, d Patricia Alvarez-Fitz, e Miguel Angel Mendoza-Catalán, e Vojtech Jancik f, Raymundo Cea-Olivares g*, 2020. Journal of Molecular Structure.*

4. Synthesis and characterization structural of alkali cations (Li⁺, Na⁺, K⁺, Rb⁺, Cs⁺) carboxylate-dithiocarbamate complexes of L-Proline. *“Tlahuext, H., Rosas-Valdéz,*



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*E., López-Cardoso, M., (...), Pérez-Redondo, M.D.C., Cea-Olivares, R.” “2018 **Journal of Molecular Structure**”*

5.- Synthesis and structural study of alkali metal complexes derived from 1-phenyl-tetrazole-thiolate and crown ethers.

*Michelle Hernández-Arganis, Mónica Moya-Cabrera, Vojtech Jancik, Diego Martínez-Otero, Ave María Cotero-Villegas, María del Carmen Pérez-Redondo, Raymundo Cea-Olivares. 2018, **Inorganica Chimica Acta**.*

6. Synthesis and characterization of the first Te(IV) organometallic complexes with azepane-1-carbodithioate. “*Cotero-Villegas, A.M., Moya-Cabrera, M., Jancik, V., Martínez-Salas, P., Cea-Olivares, R.*” “**2017 Phosphorus, Sulfur and Silicon and the Related Elements**.”

7. Corrosion behavior of AlMgSi alloy in aqueous saline solution. “*Rodríguez-Díaz, R.A., Uruchurtu-chavarrín, J., Cotero-Villegas, A.M., Valdez, S., Juárez-Islas, J.A.*” “**2015 International Journal of Electrochemical Science**.”

8. Synthesis, multinuclear (^1H , ^{13}C , ^{31}P , ^{119}Sn) NMR and structure of new optically active organotin(IV). O,O'-di(-)-menthylidithiophosphates. “*García Y García, P., Pérez-Redondo, M.D.C., Román-Bravo, P., (...), Cotero-Villegas, A.M., Cea-Olivares, R.*” “**2012 Main Group Chemistry**.”

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