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Apellidos:

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Contacto (Opcional):

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Título Profesional o Grado Académico (incluya el año de obtención):

LICENCIATURA EN CIENCIAS C/M EN QUÍMICA, UNIVERSIDAD DE CHILE, 1992.

Estudios de Postgrado o Especialización (institución donde lo obtuvo y año de obtención):

DOCTOR EN CIENCIAS C/M EN QUÍMICA, UNIVERSIDAD DE CHILE 1997

Actividad Actual e Institución en la cual trabaja:

PROFESOR ASISTENTE DE LA UNIVERSIDAD DE CHILE. DEPARTAMENTO DE QUÍMICA, FACULTAD DE CIENCIAS.

Reseña de su actividad laboral actual:

Área de Investigación: Química inorgánica, química supramolecular, nanoquímica.

En la actualidad se está trabajando en nanoquímica y química del autoensamble. En esta área, entidades químicas de tamaño de los nanómetros consistentes en un número pequeño de átomos que poseen características intermedias entre las de un átomo y el de un material sólido. Estos materiales de escala nanométrica son interesantes especialmente debido a sus notables propiedades electrónicas, magnéticas, ópticas, biológicas y mecánicas, frecuentemente asociadas con su baja dimensionalidad y de efectos de confinamiento cuántico. Conceptos como reconocimiento molecular, auto- y co-ensamblamiento, crecimiento epitaxial y topología están esencialmente involucrados en esta química.

PUBLICACIONES:

Campos, C., Muñoz, M., Barrientos, L., Lang, E., Jara, P., Sobrados, I., Yutronic, N.

Adhesion of gold and silver nanoparticles onto urea-alkylamine inclusion compounds (2013) *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, 75 (1-2), pp. 165-173.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84873888524&partnerID=40&md5=e0510d5d830b516fb9acc64e9da6fa64>

DOCUMENT TYPE: Article

SOURCE: Scopus

Herrera, B., Adura, C., Yutronic, N., Kogan, M.J., Jara, P.
Selective nanodecoration of modified cyclodextrin crystals with gold nanorods (2013) *Journal of Colloid and Interface Science*, 389 (1), pp. 42-45.

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Rodríguez-Llamazares, S., Jara, P., Yutronic, N., Noyong, M., Fischler, M., Simon, U.
Preferential adhesion of silver nanoparticles onto crystal faces of α -Cyclodextrin/carboxylic acids inclusion compounds (2012) *Journal of Nanoscience and Nanotechnology*, 12 (12), pp. 8929-8934.

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Barrientos, L., Lang, E., Zapata-Torres, G., Celis-Barros, C., Orellana, C., Jara, P., Yutronic, N.

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SOURCE: Scopus

Barrientos, L., Allende, P., Orellana, C., Jara, P.
Ordered arrangements of metal nanoparticles on alpha-cyclodextrin inclusion complexes by magnetron sputtering

(2012) *Inorganica Chimica Acta*, 380 (1), pp. 372-377. Cited 1 time.

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Silva, N., Moris, S., Herrera, B., Diaz, M., Kogan, M., Barrientos, L., Yutronic, N., Jara, P.

Formation of copper nanoparticles supported onto inclusion compounds of α -cyclodextrin: A new route to obtain copper nanoparticles

(2010) *Molecular Crystals and Liquid Crystals*, 521, pp. 246-252. Cited 1 time.

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SOURCE: Scopus

Barrientos, L., Rodríguez-Llamazares, S., Merchani, J., Jara, P., Yutronic, N., Lavayen, V.

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[77952337814&partnerID=40&md5=95c094cad14e2df9c9138008d51881f2](http://www.scopus.com/inward/record.url?eid=2-s2.0-77952337814&partnerID=40&md5=95c094cad14e2df9c9138008d51881f2)

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SOURCE: Scopus

Barrientos, L.J., Yutronic, N.I., Muñoz, M.E., Silva, N.R., Jara, P.S.

Metallic nanoparticle tropism of alkylthiol guest molecules included into α -cyclodextrin host

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Rodríguez-Llamazares, S., Merchán, J., Olmedo, I., Marambio, H.P., Muñoz, J.P., Jara, P., Sturm, J.C., Chornik, B., Peña, O., Yutronic, N., Kogan, M.J.

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Conductivity properties of thiourea- and urea-halogen inclusion compounds with diquinuclidinium cation as guest

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Barrientos, L., Yutronic, N., Del Monte, F., Gutiérrez, M.C., Jara, P.

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Merchán, J., Yutronic, N., Jara, P., Garland, M.T., Baggio, R.

Protonated bis(quinuclidine) included in channel thiourea-bromide and ribbons
thiourea-iodide lattice: New thiourea inclusion compounds

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Yutronic, N., Cañete, X., Jara, P., Lavayen, V.G.

Inclusion compound of α -cyclodextrin/diquinuclidinium cation [Q 2H]⁺

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diquinuclidine ion inserted in a polyanionic thiourea-chloride matrix
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bis(thiourea)hexamethylenetetramine
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SOURCE: Scopus

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Manriquez, J.M., Rivière-Baudet, M., Rivière, P., Castel, A., Rouzard, J., Gornitzka, H.
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Characterization of their mono- and dianions by silylation. Structure of trans-1,5-
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Yutronic, N., Manríquez, V., Jara, P., Wittke, O., González, G.
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Yutronic, N., Manriquez, V., Jara, P., Witke, O., Merchán, J., González, G.
Bis(thiourea)-1,2-diazabicyclo[2.2.2]octane. A new layered thiourea inclusion
compound
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13C CP-MAS NMR of azacycle-thiourea inclusion compounds
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DOCUMENT TYPE: Article
SOURCE: Scopus

Jara, P., Justiniani, M., Yutronic, N., Sobrados, I.
Syntheses and structural aspects of cyclodextrin/dialkylamine inclusion compounds
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PROYECTOS DE INVESTIGACIÓN:

INVESTIGADOR RESPONSIBLE. 130147 PREPARATION OF CYCLODEXTRIN
INCLUSION COMPOUNDS CRYSTALS DECORATED WITH NOBLE METALS
NANOSTRUCTURES. A STUDY OF PHOTOTHERMAL EFFECTS PRODUCED BY LASER
IRRADIATION. 2013

INVESTIGADOR RESPONSIBLE. 1080505 DESIGN AND OBTAINING OF METAL
NANOTUBES AND METAL NANORODS FROM METALLIC ORDERED ARRANGEMENTS
ON CYCLODEXTRIN INCLUSION COMPOUNDS. 2008

COINVESTIGADOR. 1050287 NUEVOS METODOS DE OBTENCION DE
NANOPARTICULAS Y NANO-ORDENAMIENTOS METALICOS EMPLEANDO LA
QUIMICA DE COMPUESTOS DE INCLUSION. 2005

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INTERACCION DE NANOPARTICULAS CON AUTOENSAMBLADOS DE ALQUILTIOLES
ANCAPSULADOS EN CICLODEXTRINAS. 2004

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