Nombres:

PAUL SEBASTIAN

Apellidos:

JARA VERGARA

Contacto (Opcional):

PJARA@UCHILE.CL

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 nanometros 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 nanométricas 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.
http://www.scopus.com/inward/record.url?eid=2-s2.0-84867911692&partnerID=40&md5=1f74bd3f9da9c60dbbb46ad7b6b17a66
DOCUMENT TYPE: Article
SOURCE: Scopus

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.
http://www.scopus.com/inward/record.url?eid=2-s2.0-84876241281&partnerID=40&md5=2d173d948c1cf2914d9c57760aa1a2ea
DOCUMENT TYPE: Article
SOURCE: Scopus

Barrientos, L., Lang, E., Zapata-Torres, G., Celis-Barros, C., Orellana, C., Jara, P., Yutronic, N.
Structural elucidation of supramolecular alpha-cyclodextrin dimer/aliphatic monofunctional molecules complexes
(2012) Journal of Molecular Modeling, pp. 1-8. Article in Press.
http://www.scopus.com/inward/record.url?eid=2-s2.0-84870063305&partnerID=40&md5=36b834be43f568b12db83349b6c2f3be
DOCUMENT TYPE: Article in Press
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.
http://www.scopus.com/inward/record.url?eid=2-s2.0-84856221518&partnerID=40&md5=ec4a95d11ed8250c2c237fb6ca2807a1
DOCUMENT TYPE: Article
SOURCE: Scopus

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.
http://www.scopus.com/inward/record.url?eid=2-s2.0-77952975963&partnerID=40&md5=54bff088e9f52f92e0fe4bc2cad71f91
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Barrientos, L., Rodriguez-Llamazares, S., Merchani, J., Jara, P., Yutronic, N., Lavayen, V.
Unveiling the structure of Ni/Ni oxide nanoparticles system
(2009) Journal of the Chilean Chemical Society, 54 (4), pp. 391-393. Cited 4 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-77952337814&partnerID=40&md5=95c094cad14e2df9c9138008d51881f2
DOCUMENT TYPE: Article
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
(2009) Supramolecular Chemistry, 21 (3-4), pp. 264-267. Cited 4 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-70449711218&partnerID=40&md5=98220336a5e56e19307c610c556a905c
DOCUMENT TYPE: Article
SOURCE: Scopus

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.
Ni/Ni oxides nanoparticles with potential biomedical applications obtained by displacement of a nickel-organometallic complex
(2008) Journal of Nanoscience and Nanotechnology, 8 (8), pp. 3820-3827. Cited 12 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-55849145208&partnerID=40&md5=c722be5f1af5e955b3bca9ba5f3d03b8
DOCUMENT TYPE: Article
SOURCE: Scopus

Jara, P., Barrientos, L., Herrera, B., Sobrados, I.
Inclusion compounds of α-cyclodextrin with alkylthiols
(2008) Journal of the Chilean Chemical Society, 53 (2), pp. 1474-1476. Cited 4 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-54949126299&partnerID=40&md5=5895168b99c796aff763893b0f68526c
DOCUMENT TYPE: Article
SOURCE: Scopus

Merchan, J., Lavayen, V., Jara, P., Sanchez, V., Yutronic, N.
Conductivity properties of thiourea- and urea-halogen inclusion compounds with diquinuclidinium cation as guest
(2008) Journal of the Chilean Chemical Society, 53 (2), pp. 1498-1502. Cited 4 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-54949084698&partnerID=40&md5=952d0dd31463b9002caae00359312555
DOCUMENT TYPE: Article
SOURCE: Scopus

Rodríquez-Llamazares, S., Jara, P., Yutronic, N., Noyong, M., Bretschneider, J., Simon, U.
Face preferred deposition of gold nanoparticles on α-cyclodextrin/octanethiol inclusion compound
(2007) Journal of Colloid and Interface Science, 316 (1), pp. 202-205. Cited 9 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-34948888726&partnerID=40&md5=268870556fd077e4cb57619d0edebe8c
DOCUMENT TYPE: Article
SOURCE: Scopus

Rodríquez-Llamazares, S., Yutronic, N., Jara, P., Englert, U., Noyong, M., Simon, U.
The structure of the first supramolecular α-cyclodextrin complex with an aliphatic monofunctional carboxylic acid
(2007) European Journal of Organic Chemistry, (26), pp. 4298-4300. Cited 14 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-34548712437&partnerID=40&md5=6a5d067723a6ea83b6d0fdd802b159e6
DOCUMENT TYPE: Article
SOURCE: Scopus

Barrientos, L., Merchán, J., Yutronic, N., Jara, P.
Selective adhesion of gold nanoparticles onto microcrystal faces of cyclodextrin/octanethiol inclusion compound produced by magnetron sputtering
(2007) 2007 NSTI Nanotechnology Conference and Trade Show - NSTI Nanotech 2007, Technical Proceedings, 4, pp. 285-288.
http://www.scopus.com/inward/record.url?eid=2-s2.0-34547994887&partnerID=40&md5=d33a9e0a5f3e6e5ed8469985ef27ec44
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Barrientos, L., Yutronic, N., Del Monte, F., Gutiérrez, M.C., Jara, P.
Ordered arrangement of gold nanoparticles on an α-cyclodextrin- dodecanethiol inclusion compound produced by magnetron sputtering
(2007) New Journal of Chemistry, 31 (8), pp. 1400-1402. Cited 11 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-34547481426&partnerID=40&md5=6ffe8c21938343087df5749f1023b38e
DOCUMENT TYPE: Article
SOURCE: Scopus

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
(2006) Journal of Inclusion Phenomena and Macrocyclic Chemistry, 55 (3-4), pp. 367-371. Cited 3 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-33746396468&partnerID=40&md5=aae1a9fc3b312a5c30f8c4cc1ac336d7
DOCUMENT TYPE: Article
SOURCE: Scopus

Yutronic, N., Cañete, X., Jara, P., Lavayen, V.G.
Inclusion compound of α-cyclodextrin/diquinuclidinium cation [Q 2H]+
(2004) Molecular Crystals and Liquid Crystals, 417, pp. 193/[677]-198/[682]. Cited 4 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-10044243572&partnerID=40&md5=3cf4d1fdc3a05d9076ac43399422a81a
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Jara, P., Cañete, X., Lavayen, V., Yutronic, N.
Inclusion compounds of α- and γ-cyclodextrins with n-alkylamine (n= 12, 18)
(2004) Journal of the Chilean Chemical Society, 49 (3), pp. 241-243. Cited 7 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-4644257355&partnerID=40&md5=61c0edb55a0599d6c4acb2c819e61cbd
DOCUMENT TYPE: Article
SOURCE: Scopus

Yutronic, N., Merchán, J., Jara, P., Manríquez, V., Wittke, O., González, G.
Single-crystal anisotropic proton conductivity in the clathrate of the hydrogen-diquinuclidine ion inserted in a polyanionic thiourea-chloride matrix
(2004) Supramolecular Chemistry, 16 (6), pp. 411-414. Cited 6 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-4844221447&partnerID=40&md5=539b14e6e3bd1146d350a88691071ca5
DOCUMENT TYPE: Article
SOURCE: Scopus

Jara, P., González, G., Manríquez, V., Wittke, O., Yutronic, N.
IR and 13C-NMR spectral properties of the layered inclusion compound bis(thiourea)hexamethylenetetramine
(2004) Journal of the Chilean Chemical Society, 49 (1), pp. 39-43.
http://www.scopus.com/inward/record.url?eid=2-s2.0-1842735262&partnerID=40&md5=42c20eb287fc592b47ff36ad72dba842
DOCUMENT TYPE: Article
SOURCE: Scopus

Yutronic, N., Merchán, J., Jara, P., Gonzalez, G., Garland, M.T.
Quinuclidine-Thiourea Inclusion Compound. A Perfect van der Waals Cavity
(2003) Journal of Inclusion Phenomena, 45 (1-2), pp. 51-57. Cited 8 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-1642484303&partnerID=40&md5=798e665dccc9fb96f2be68b8f5de2587
DOCUMENT TYPE: Article
SOURCE: Scopus

Yutronic, N., Merchán, J., Manríquez, V., Gonzalez, G., Jara, P., Wittke, O., Garland, M.T.
Inclusion of a Protonated Amine in Thiourea-Chloride and -Bromide Matrix. Expected Ionic Conducting Materials
(2002) Molecular Crystals and Liquid Crystals Science and Technology Section A: Molecular Crystals and Liquid Crystals, 374, pp. 223-227. Cited 4 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-4844224621&partnerID=40&md5=bdffc62be6a972f787309ea45262bc3a
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Dahrouch, M.R., Jara, P., Mendez, L., Portilla, Y., Abril, D., Alfonso, G., Chavez, I., Manriquez, J.M., Rivière-Baudet, M., Rivière, P., Castel, A., Rouzaud, J., Gornitzka, H.
An effective and selective route to 1,5-dihydropolyalkylated s-indacenes: Characterization of their mono- and dianions by silylation. Structure of trans-1,5-bis(trimethylsilyl)-2,6-diethyl-4,8-dimethyl-s-indacene
(2001) Organometallics, 20 (26), pp. 5591-5597. Cited 23 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-0035945432&partnerID=40&md5=2872a92a7129e92b675a4b8379c5e7d1
DOCUMENT TYPE: Article
SOURCE: Scopus

Yutronic, N., Manríquez, V., Jara, P., Wittke, O., González, G.
Dicyclohexylamine-Thiourea Clathrate
(2001) Supramolecular Chemistry, 12 (4), pp. 397-403. Cited 10 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-0347608387&partnerID=40&md5=9c511e0fecfedce5ee9e6213a63e41eb
DOCUMENT TYPE: Article

SOURCE: Scopus

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
(2000) Journal of the Chemical Society. Perkin Transactions 2, (8), pp. 1757-1760. Cited 8 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-0034256639&partnerID=40&md5=d23bb6c9ad2ce23a9f19f52bece629c3
DOCUMENT TYPE: Article
SOURCE: Scopus

Jara, P., Yutronic, N., González, G.
13C CP-MAS NMR of azacycle-thiourea inclusion compounds
(1998) Supramolecular Chemistry, 9 (3), pp. 163-168. Cited 8 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-0032356087&partnerID=40&md5=a85cd07b096102b279373cbbf59818bc
DOCUMENT TYPE: Article
SOURCE: Scopus

Jara, P., Justiniani, M., Yutronic, N., Sobrados, I.
Syntheses and structural aspects of cyclodextrin/dialkylamine inclusion compounds
(1998) Journal of Inclusion Phenomena and Molecular Recognition in Chemistry, 32 (1), pp. 1-8. Cited 12 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-11544334336&partnerID=40&md5=b2b189540350edf61e8fd32c06af3650
DOCUMENT TYPE: Article
SOURCE: Scopus

Jara, P., Yutronic, N., González, G.
Synthesis and structural aspects of urea/dialkylamine inclusion compounds
(1995) Journal of Inclusion Phenomena and Molecular Recognition in Chemistry, 22 (3), pp. 203-210. Cited 12 times.
http://www.scopus.com/inward/record.url?eid=2-s2.0-21844503020&partnerID=40&md5=6aead4f3291368b9f1d967369c0489a0
DOCUMENT TYPE: Article

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

INVESTIGADOR RESPONSABLE. 1040581 NANOARQUITECTURAS QUIMICAS. INTERACCION DE NANOPARTICULAS CON AUTOENSAMBLADOS DE ALQUILTIOLES ANCAPSULADOS EN CICLODEXTRINAS. 2004

Actualización, mayo 2014