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

LICENCIADO EN QUIMICA, 1967, PONTIFICIA UNIVERSIDAD CATOLICA DE CHILE.

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

DOCTOR EN CIENCIAS NATURALES, UNIVERSITAT STUTTGART, ALEMANIA, 1970.

DOCTOR EN REC. NAT., UNIVERSIDAD DE STUTTGART, ALEMANIA, 1970

Actividad Actual e Institución en la cual trabaja:

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

Reseña de su actividad laboral actual:

Área de Investigación: Química Inorgánica, Materiales Inorgánicos

Línea de Investigación: Interacciones Anfitrión-Huésped en sistemas de dimensionalidad restringida; química de compuestos de intercalación; nanocompositos orgánico-inorgánico; confinamiento cuántico de semiconductores

PUBLICACIONES:

Magon, C.J., Lima, J.F., Donoso, J.P., Lavayen, V., Benavente, E., Navas, D., Gonzalez, G.

Deconvolution of the EPR spectra of vanadium oxide nanotubes

(2012) Journal of Magnetic Resonance, 222, pp. 26-33.

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SOURCE: Scopus

Fuentes, S., Vera, V., Rivera, F., Moreno, M., Benavente, E., Gonzalez, G.

Hybrid chitosan-mercaptopropyltrimethoxysilane films with Ag and Au nanoparticles:

Synthesis and properties

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Segovia, M., Sotomayor, C., González, G., Benavente, E.

Zinc oxide nanostructures by solvothermal synthesis

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López-Cabaña, Z., Navas, D., Benavente, E., Ana, M.A.S., Lavayen, V., González, G.

Hybrid laminar organic-inorganic semiconducting nanocomposites

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Moreno, M., Quijada, R., Santa Ana, M.A., Benavente, E., Gomez-Romero, P.,

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Electrical and mechanical properties of poly(ethylene oxide)/intercalated clay polymer electrolyte

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Semiconducting properties of layered cadmium sulphide-based hybrid nanocomposites

(2011) Nanoscale Research Letters, 6, art. no. 523, pp. 1-8. Cited 1 time.

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Zinc oxide/carboxylic acid lamellar structures

(2011) *Materials Research Bulletin*, 46 (11), pp. 2191-2195. Cited 3 times.

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Modification of silicon surface with redox molecules derived from ferrocene

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Moreno, M., Ana, M.A.S., Gonzalez, G., Benavente, E.

Poly(acrylonitrile)-montmorillonite nanocomposites. Effects of the intercalation of the filler on the conductivity of composite polymer electrolytes

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Vasquez, J., López, Z., Zuñiga, A., Nacher, A., Lira-Cantú, M., Gómez-Romero, P., Ana, M.A.S., Benavente, E., González, G.

Titanium dioxide/amine hybrid nanotubes. Optical properties and behavior as lithium-ion electrode

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Benavente, E., Riveros, G., López, Z., Ana, M.A.S., Aliaga, J., González, G.

Deposition of molybdenum disulfide thin film on a gold surface

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Fuentes, S., Ayala, M.V., Benavente, E., Gonzalez, G.

Hybrid chitosane-mercaptopropylsiloxane films - Synthesis and properties

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[77952988318&partnerID=40&md5=8a2f39374548a0cc9739a12bfe1d2296](http://www.scopus.com/inward/record.url?eid=2-s2.0-77952988318&partnerID=40&md5=8a2f39374548a0cc9739a12bfe1d2296)

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Lavín, R., Denardin, J.C., Cortés, A., Gómez, H., Cornejo, M., González, G.

Magnetic properties of cobalt nanowire arrays

(2010) *Molecular Crystals and Liquid Crystals*, 521, pp. 293-300.

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Donoso, J.P., Tambelli, C.E., Magon, C.J., Mattos, R.I., Silva, I.D.A., De Souza, J.E., Moreno, M., Benavente, E., Gonzalez, G.
Nuclear magnetic resonance study of hydrated bentonite
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O'Dwyer, C., Lavayen, V., Tanner, D.A., Newcomb, S.B., Benavente, E., González, G., Torres, C.M.S.
Reduced surfactant uptake in three dimensional assemblies of VOx Nanotubes Improves Reversible Li+ intercalation and charge capacity
(2009) *Advanced Functional Materials*, 19 (11), pp. 1736-1745. Cited 28 times.
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Celedon, S., Quiroz, C., Gonzalez, G., Sotomayor Torres, C.M., Benavente, E.
Lanthanides-clay nanocomposites: Synthesis, characterization and optical properties
(2009) *Materials Research Bulletin*, 44 (5), pp. 1191-1194. Cited 6 times.
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<http://www.scopus.com/inward/record.url?eid=2-s2.0-67649243293&partnerID=40&md5=be17f3af5a2fea6e64ad318cf7597115>
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Vasquez, J., Lozano, H., Lavayen, V., Lira-Cantu, M., Gomez-Romero, P., Ana, M.A.S., Benavente, E., Gonzalez, G.
High-Yield preparation of titanium dioxide nanostructures by hydrothermal conditions
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Gonzalez, G.D., Miranda, D., Casali, A., Vallebuona, G.
Detection and identification of ore grindability in a semiautogenous grinding circuit model using wavelet transform variances of measured variables
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Lavayen, V., O'Dwyer, C., Cárdenas, G., González, G., Sotomayor Torres, C.M.
Towards thiol functionalization of vanadium pentoxide nanotubes using gold nanoparticles (DOI:10.1016/j.materresbull.2006.07.022)
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<http://www.scopus.com/inward/record.url?eid=2-s2.0-51649109657&partnerID=40&md5=d1227e2b517b8ed39f931f91a6bf23e1>
DOCUMENT TYPE: Erratum
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O'Dwyer, C., Lavayen, V., Fuenzalida, D., Lozano, H., Ana, M.A.S., Benavente, E., González, G., Torres, C.M.S.
Low-dimensional, hinged bar-code metal oxide layers and free-standing, ordered organic nanostructures from turbostratic vanadium oxide
(2008) Small, 4 (7), pp. 990-1000. Cited 7 times.
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Fuentes, S., Retuert, J., González, G.
Preparation and properties of chitosan hybrid films from microwave irradiated solutions
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Schneider, J., Lopes, L.V.S., Tambelli, C.E., Donoso, J.P., Lozano, H., Gonzalez, G.
NMR study of slow motions of HDA hydrocarbons chains inside lamellar structures
(2008) Molecular Crystals and Liquid Crystals, 483, pp. 130-140.
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Nascimento, O.R., Magon, C.J., Lima, J.F., Donoso, J.P., Benavente, E., Paez, J., Lavayen, V., Santa Ana, M.A., Gonzalez, G.
Magnetic resonance study of a vanadium pentoxide gel
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Donoso, J.P., Lopes, L.V.S., Pawlicka, A., Fuentes, S., Retuert, P.J., González, G.
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SOURCE: Scopus

Fuentes, S., Retuert, P.J., González, G.
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SOURCE: Scopus

Santa Ana, M.A., Mirabal, N., Benavente, E., Gómez-Romero, P., González, G.
Electrochemical behavior of lithium intercalated in a molybdenum disulfide-crown ether nanocomposite
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Benavente, E., Echeverría, Y., Lavayen, V., Torres, C.M.S., González, G.
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SOURCE: Scopus

O'Dwyer, C., Lavayen, V., Santa Ana, M.A., Benavente, E., González, G., Sotomayor Torres, C.M.

Anisotropic vanadium oxide nanostructured host matrices for lithium ion intercalation
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Lavayen, V., Benavente, E., Torres, C.M.S., González, G.
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(2007) *Diffusion and Defect Data Pt.B: Solid State Phenomena*, 121-123 (PART 1), pp. 1-4.

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O'Dwyer, C., Lavayen, V., Fuenzalida, D., Newcomb, S.B., Santa Ana, M.A., Benavente, E., González, G., Sotomayor Torres, C.M.
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DOCUMENT TYPE: Conference Paper
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O'Dwyer, C., Lavayen, V., Mirabal, N., Santa Ana, M.A., Benavente, E., Ormazabal, S., González, G., Lopez, Z., Schöps, O., Woggon, U., Sotomayor Torres, C.M.
Surfactant-mediated variation of band-edge emission in CdS nanocomposites
(2007) *Photonics and Nanostructures - Fundamentals and Applications*, 5 (2-3), pp. 45-52. Cited 2 times.

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O'Dwyer, C., Lavayen, V., Newcomb, S.B., Santa Ana, M.A., Benavente, E., González, G., Sotomayor Torres, C.M.

Vanadate conformation variations in vanadium pentoxide nanostructures
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Sánchez, V., Benavente, E., Lavayen, V., O'Dwyer, C., Sotomayor Torres, C.M., González, G., Santa Ana, M.A.

Erratum to "Pressure induced anisotropy of electrical conductivity in polycrystalline molybdenum disulfide" [*Appl. Surf. Sci.* 252 (2006) 7941-7947]

(DOI:10.1016/j.apsusc.2005.10.011)
(2007) *Applied Surface Science*, 253 (14), p. 6273. Cited 1 time.

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Lavayen, V., Mirabal, N., O'Dwyer, C., Santa Ana, M.A., Benavente, E., Sotomayor Torres, C.M., González, G.

The formation of nanotubes and nanocoils of molybdenum disulphide
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