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**GUILLERMO ANTONIO**

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

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

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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**

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Actividad Actual e Institución en la cual trabaja:

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

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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.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84865128753&partnerID=40&md5=c54b345cc3c001162e88a33126c60308)

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DOCUMENT TYPE: Article

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

(2012) Molecular Crystals and Liquid Crystals, 562, pp. 229-241.

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DOCUMENT TYPE: Article

SOURCE: Scopus

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

Zinc oxide nanostructures by solvothermal synthesis

(2012) Molecular Crystals and Liquid Crystals, 555, pp. 40-50.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84859178023&partnerID=40&md5=ea51a000453a5f8aa323f24f031650bf)

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DOCUMENT TYPE: Article

SOURCE: Scopus

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

Hybrid laminar organic-inorganic semiconducting nanocomposites

(2012) Molecular Crystals and Liquid Crystals, 554, pp. 119-134.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84855960846&partnerID=40&md5=e2573357ac729c3ef8f4e87ad63dc5d5)

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SOURCE: Scopus

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

González, G.

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

(2011) Electrochimica Acta, 58 (1), pp. 112-118. Cited 4 times.

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López-Cabaña, Z., Torres, C.M.S., González, G.

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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SOURCE: Scopus

Segovia, M., Lemus, K., Moreno, M., Ana, M.A.S., González, G., Ballesteros, B., Sotomayor, C., Benavente, E.

Zinc oxide/carboxylic acid lamellar structures

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

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-80052847306&partnerID=40&md5=c931ad2b079e94568bd924685e78adb5)

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Riveros, G., González, G., Chornik, B.

Modification of silicon surface with redox molecules derived from ferrocene

(2010) *Journal of the Brazilian Chemical Society*, 21 (1), pp. 25-32. Cited 3 times.

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SOURCE: Scopus

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

(2010) *Electrochimica Acta*, 55 (4), pp. 1323-1327. Cited 6 times.

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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

(2010) *Molecular Crystals and Liquid Crystals*, 521, pp. 148-157. Cited 1 time.

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SOURCE: Scopus

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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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SOURCE: Scopus

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.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-77952988652&partnerID=40&md5=88d2a7448d8ad861b93e8607e42a9374>  
DOCUMENT TYPE: Conference Paper  
SOURCE: Scopus

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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DOCUMENT TYPE: Conference Paper  
SOURCE: Scopus

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<sup>+</sup> intercalation and charge capacity  
(2009) *Advanced Functional Materials*, 19 (11), pp. 1736-1745. Cited 28 times.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-67649231119&partnerID=40&md5=c1467ca441a0f74f0f143c83786bf1a7>  
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SOURCE: Scopus

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.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-61849134465&partnerID=40&md5=005658b0615723068cc2335c48830d4d>  
DOCUMENT TYPE: Article  
SOURCE: Scopus

Lozano, H., Benavente, E., Gonzalez, G.  
Deposition of laminar TiO<sub>2</sub>-Based nanocomposites on a modified quartz crystal gold surface  
(2009) *Journal of Nanoscience and Nanotechnology*, 9 (2), pp. 969-973. Cited 2 times.  
<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  
(2009) *Journal of Nanoscience and Nanotechnology*, 9 (2), pp. 1103-1107. Cited 4 times.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-67649277201&partnerID=40&md5=c70c08edb6790604ef268a622ba6e658>  
DOCUMENT TYPE: Conference Paper  
SOURCE: Scopus

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  
(2008) *International Journal of Mineral Processing*, 89 (1-4), pp. 53-59. Cited 3 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-56249083897&partnerID=40&md5=a7baddbdf3ff1ad59c237a55b87052>  
DOCUMENT TYPE: Article  
SOURCE: Scopus

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)  
(2008) Materials Research Bulletin, 43 (11), p. 3177. Cited 2 times.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-51649109657&partnerID=40&md5=d1227e2b517b8ed39f931f91a6bf23e1>  
DOCUMENT TYPE: Erratum  
SOURCE: Scopus

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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DOCUMENT TYPE: Article  
SOURCE: Scopus

Fuentes, S., Retuert, J., González, G.  
Preparation and properties of chitosan hybrid films from microwave irradiated solutions  
(2008) Journal of the Chilean Chemical Society, 53 (2), pp. 1511-1514. Cited 2 times.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-54949083066&partnerID=40&md5=491186d10f0fda11fe23042b7c734217>  
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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.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-47549117405&partnerID=40&md5=6f67ce1a27f80649ceaf76fac5ed9085>  
DOCUMENT TYPE: Conference Paper  
SOURCE: Scopus

Fuentes, S., Retuert, J., Benavente, E., Lozano, H., González, G.  
Chitosan-siloxane nanocomposites. Formation, structure, and properties of films  
(2008) Molecular Crystals and Liquid Crystals, 483, pp. 109-119.  
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DOCUMENT TYPE: Conference Paper  
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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.  
Nuclear magnetic resonance study of PEO-chitosan based polymer electrolytes  
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Fuentes, S., Retuert, P.J., González, G.  
Lithium ion conductivity of molecularly compatibilized chitosan-poly(aminopropyltriethoxysilane)-poly(ethylene oxide) nanocomposites  
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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  
(2007) *Electrochimica Acta*, 53 (4), pp. 1432-1438. Cited 2 times.

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Benavente, E., Echeverría, Y., Lavayen, V., Torres, C.M.S., González, G.  
Lanthanide-clay nanocomposites: Europium(III) complexes intercalated in bentonite  
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<http://www.scopus.com/inward/record.url?eid=2-s2.0-38549169364&partnerID=40&md5=0410bf04bc5216dfad9ec55576358f46>

DOCUMENT TYPE: Conference Paper

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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  
(2007) *Research Letters in Physical Chemistry*, 2007, art. no. 32528, .

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Lavayen, V., Benavente, E., Torres, C.M.S., González, G.  
Inorganic fullerenes: From lamellar precursors to functionalized nanotubes  
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DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

O'Dwyer, C., Lavayen, V., Fuenzalida, D., Newcomb, S.B., Santa Ana, M.A., Benavente, E., González, G., Sotomayor Torres, C.M.  
Six-fold rotationally symmetric vanadium oxide nanostructures by a morphotropic phase transition  
(2007) *Physica Status Solidi (B) Basic Research*, 244 (11), pp. 4157-4160. Cited 5 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-36849081291&partnerID=40&md5=e54730c9ef4fbb8a98a7f16159d98f99>  
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  
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<http://www.scopus.com/inward/record.url?eid=2-s2.0-34748829372&partnerID=40&md5=93cb9be8ddc57e1324034fb2977dbf98>  
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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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DOCUMENT TYPE: Article  
SOURCE: Scopus

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)  
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<http://www.scopus.com/inward/record.url?eid=2-s2.0-34247095578&partnerID=40&md5=c2ff187a92af73f821a392316f180c5b>  
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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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Towards thiol functionalization of vanadium pentoxide nanotubes using gold nanoparticles

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O'Dwyer, C., Lavayen, V., Newcomb, S.B., Benavente, E., Santa Ana, M.A., González, G., Sotomayor Torres, C.M.  
Atomic layer structure of vanadium oxide nanotubes grown on nanourchin structures (2007) *Electrochemical and Solid-State Letters*, 10 (4), pp. A111-A114. Cited 14 times.  
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Lavayen, V., O'Dwyer, C., Ana, M.A.S., Mirabal, N., Benavente, E., Cárdenas, G., González, G., Torres, C.M.S.  
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