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

LICENCIATURA EN CIENCIAS C/M EN QUÍMICA, UNIVERSIDAD DE CHILE 1974.

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

DOCTOR DE ESTADO EN CIENCIAS, UNIVERSIDAD DE BORDEAUX I 1982.

Actividad Actual e Institución en la cual trabaja:

PROFESOR TITULAR DE LA UNIVERSIDAD DE CHILE. DEPARTAMENTO DE QUÍMICA, COORDINADOR DE RELACIONES INTERNACIONALES DE LA FACULTAD DE CIENCIAS Y CONSEJERO DE FACULTAD.

Reseña de su actividad laboral actual:

Área de Investigación: Espectroscopia Vibracional.

Línea de Investigación: Espectros infrarrojo y Raman; determinación de estructura molecular; caracterización de la interacción de macrociclos y superficies metálicas.

Docencia: Área de Físicoquímica.

PUBLICACIONES:

Scopus
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Aguayo, T., Garrido, C., Clavijo, R.E., Gómez-Jeria, J.S., Araya Monasterio, C., Icaza, M., Espinoza Moraga, F., Campos Vallette, M.M.

Raman and surface enhanced Raman scattering of a black dyed silk

(2013) *Journal of Raman Spectroscopy*, . Article in Press.

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DOCUMENT TYPE: Article in Press

SOURCE: Scopus

Garrido, C., Aguayo, T., Clavijo, E., Gómez-Jeria, J.S., Campos-Vallette, M.M.

The effect of the pH on the interaction of L-arginine with colloidal silver nanoparticles. A Raman and SERS study

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Interaction of the C-terminal peptide from pigeon cytochrome C with silver nanoparticles. A Raman, SERS and theoretical study

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Cárcamo, J.J., Aliaga, A.E., Clavijo, E., Garrido, C., Gómez-Jeria, J.S., Campos-Vallette, M.M.

Proline and hydroxyproline deposited on silver nanoparticles. A Raman, SERS and theoretical study

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Vibrational and scaled quantum chemical study of O,O-dimethyl S-methylcarbamoylmethyl phosphorodithioate, dimethoate

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Aguayo, T., Clavijo, E., Eisner, F., Ossa-Izquierdo, C., Campos-Vallette, M.M.
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Fleming, G.D., Célis, F., Campos-Vallette, M., Aliaga, A.E., Escobar, M., Koch, R.
Raman, infrared, SERS and theoretical study of 3-(1-phenylpropan-2-ylamino)
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Aliaga, A.E., Aguayo, T., Garrido, C., Clavijo, E., Hevia, E., Gómez-Jeria, J.S., Leyton,
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Surface-enhanced Raman scattering and theoretical studies of the C-terminal peptide
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Aguayo, T., Clavijo, E., Villagrán, A., Espinosa, F., Sagüés, F.E., Campos-Vallette, M. Raman vibrational study of pigments with patrimonial interest for the chilean cultural heritage

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[79951599519&partnerID=40&md5=046fedb8cc7d50aa2521e9aa3e182c9b](http://www.scopus.com/inward/record.url?eid=2-s2.0-79951599519&partnerID=40&md5=046fedb8cc7d50aa2521e9aa3e182c9b)

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Garrido, C., Aliaga, A.E., Gomez-Jeria, J.S., Clavijo, R.E., Campos-Vallette, M.M., Sanchez-Cortes, S.

Adsorption of oligopeptides on silver nanoparticles: Surface-enhanced Raman scattering and theoretical studies

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Aliaga, A.E., Garrido, C., Leyton, P., Diaz F., G., Gomez-Jeria, J.S., Aguayo, T., Clavijo, E., Campos-Vallette, M.M., Sanchez-Cortes, S.

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Campos-Vallette, M.M., Chandía, N.P., Clavijo, E., Leal, D., Matsuhira, B., Osorio-Román, I.O., Torres, S.

Characterization of sodium alginate and its block fractions by surface-enhanced Raman spectroscopy

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Diaz-Fleming, G., Célis, F., Fredes, C., Campos-Vallette, M., Aliaga, A.E., Koch, R. Surface-enhanced Raman scattering and density functional theory studies of bis(4-aminophenyl)sulfone

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Fleming, G.D., Finnerty, J.J., Campos-Vallette, M., Celis, F., Aliaga, A.E., Fredes, C., Koch, R.

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SOURCE: Scopus

Aliaga, A.E., Osorio-Román, I., Leyton, P., Garrido, C., Cárcamo, J., Caniulef, C., Célis, F., Díaz F., G., Clavijo, E., Gómez-Jeria, J.S., Campos-Vallette, M.M.
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Leyton, P., Córdova, I., Lizama-Vergara, P.A., Gómez-Jeria, J.S., Aliaga, A.E., Campos-Vallette, M.M., Clavijo, E., García-Ramos, J.V., Sanchez-Cortes, S.
Humic acids as molecular assemblers in the surface-enhanced Raman scattering detection of polycyclic aromatic hydrocarbons
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Domingo, C., Guerrini, L., Leyton, P., Campos-Vallette, M., Garcia-Ramos, J.V., Sanchez-Cortes, S.
Surface-enhanced Raman spectroscopy-and surface-enhanced infrared absorption-based molecular sensors: Selective detection of polycyclic aromatic hydrocarbons employing different silver nanoparticle functionalization methods
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Garcia-Ramos, J.-R., Domingo, C., Guerrini, L., Leyton, P., Campos-Vallette, M., Sanchez-Cortes, S.
Plasmonic metal nanoparticle functionalization for selective sensing of persistent pollutants by surface-enhanced Raman scattering
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Importance of metal-adsorbate interactions for the surface-enhanced raman scattering of molecules adsorbed on plasmonic nanoparticles
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SOURCE: Scopus

García-Ramos, J.V., Sánchez-Cortés, S., Leyton, P., Campos-Vallette, M.
Detection of PAHs on calixarene-functionalized metal surfaces by means of SERS spectroscopy [Detección de PAHs mediante espectroscopía SERS sobre superficies metálicas funcionalizadas con calixarenos]
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Leyton, P., Domingo, C., Sanchez-Cortes, S., Campos-Vallette, M., Díaz, G.F., Garcia-Ramos, J.V.
Reflection-absorption IR and surface-enhanced IR spectroscopy of tetracarboethoxy t-butyl-calix[4]arene, as a host molecule with potential applications in sensor devices
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