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Apellidos:

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

TÍTULO PROFESIONAL: QUÍMICO. UNIVERSIDAD DE CHILE. 1975

GRADO ACADÉMICO: LICENCIADO EN QUÍMICA. UNIVERSIDAD DE CHILE. 1975

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

DOCTOR EN CIENCIAS EXACTAS MENCIÓN QUÍMICA, PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE, 1984

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: Físicoquímica, Polímeros, Polielectrólitos

Línea de Investigación: estudio de las propiedades físico químicas de sistemas del tipo doble capa eléctrica como micelas y polielectrólitos en disolución y en interfaces. De particular interés, los fenómenos como el intercambio iónico, las propiedades conductoras y la asociación de contraiones a ambos sistemas. Se han encontrado algunas sorprendentes analogías en el comportamiento de estos sistemas.

Docencia: Química General y Físico Química. Físico Química de Macromoléculas y Físico Química de Superficies.

PUBLICACIONES INDEXADAS:

Ríos, H.E., Collío, G.A., Leal, M.S., Urzúa, M.D., Vargas, V.A.
Association of 4-n-alkylbenzene sulfonates with hydrophobically modified poly (diallyldimethylammonium) chlorides
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Ríos, H.E., Briones, X.G., Urzúa, M.D., Vargas, V.A.
Cooperative association of p-alkylbenzene sulfonates sodium salts to poly-2-(dimethylamino) ethylmethacrylate-N-alkyl quaternized at the water/chloroform interface
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(2011) Colloids and Surfaces A: Physicochemical and Engineering Aspects, 384 (1-3), pp. 262-267. Cited 2 times.
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(2010) Colloids and Surfaces A: Physicochemical and Engineering Aspects, 364 (1-3), pp. 61-66. Cited 3 times.
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Toral, M.I., González-Navarrete, J., Leiva, A., Ríos, H.E., Urzúa, M.D.
Chromium retention properties of N-alkyl quaternized poly(4-vinylpyridine)
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Cañete, P., Ríos, H.E., Vargas, V., Ronco, S., Isaacs, M., Urzúa, M.D.

Detection of hydrophobic microdomains in anionic polyelectrolytes with tris-(4,7-diphenyl-1,10-phenanthroline)3Cr(III)
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Preferential adsorption phenomena in polyelectrolytes in methanol/water solution: Effect of the counterion
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Polyelectrolyte solutions. Electrical conductivity and counterion condensation
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PROYECTOS DE INVESTIGACIÓN:

INVESTIGADOR RESPONSABLE. 1090092 INTERACTIONS OF SMALL ORGANIC COSOLUTES WITH POLYSOAPS. 2009

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INVESTIGADOR RESPONSABLE. 1040646 PROPIEDADES DE POLIELECTROLITOS ANFIPATICOS EN INTERFACES. 2004

INVESTIGADOR RESPONSABLE. 1000798 INTERCAMBIO IONICO EN SOLUCIONES DE POLIELECTROLITOS CATIONICOS. 2000