



Nombres:

MARCELA DEL PILAR

Apellidos:

URZÚA ACEVEDO

Contacto (Opcional):

MAURZUA@UCHILE.CL

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

PROFESOR DE QUÍMICA Y CS. NATURALES, 1992, UNIVERSIDAD METROPOLITANA DE CIENCIAS DE LA EDUCACIÓN

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

DOCTOR EN CIENCIAS EXACTAS C/M QUIMICA, 2000
PONTIFICIA UNIVERSIDAD CATOLICA DE CHILE

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:

Líneas de Investigación:

Físico-química de macromoléculas en disolución y al estado sólido.

Físico-química de superficie.

Poliectrolitos en disolución y en interfaces

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
(2013) *Journal of Macromolecular Science, Part B: Physics*, 52 (6), pp. 841-851.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84876173762&partnerID=40&md5=27c40876e9b9772d8ebce3a0b7181376>
DOCUMENT TYPE: Article
SOURCE: Scopus

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
(2013) *Journal of Macromolecular Science, Part B: Physics*, 52 (4), pp. 614-622.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84872740451&partnerID=40&md5=dbcaf7beb9605a791091caaaf3af8cf5>
DOCUMENT TYPE: Article
SOURCE: Scopus

Urzúa, M., Leiva, A., Espinoza-Beltrán, F.J., Briones, X., Saldías, C., Pino, M.
Spontaneous adsorption of gold nanoparticles by polyelectrolyte thin films
(2012) *Journal of Nanoscience and Nanotechnology*, 12 (11), pp. 8382-8390.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84871891069&partnerID=40&md5=f8a9f9be3085e648161151afc4edaeca>
DOCUMENT TYPE: Article
SOURCE: Scopus

Amim, J., Maia, F.C.B., Miranda, P.B., Urzúa, M.D., Petri, D.F.S.
Structural aspects of polyanion and hydrophobically modified polycation multilayers on hydrophilic or hydrophobic surfaces
(2012) *Soft Matter*, 8 (24), pp. 6462-6470. Cited 1 time.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84865709735&partnerID=40&md5=e60434874bde67fd225667387b990e9f>
DOCUMENT TYPE: Article
SOURCE: Scopus

Rojas-Blanco, L., Urzúa, M.D., Ramírez-Bon, R., Espinoza Beltrán, F.J.
Photocatalytic thin films containing TiO₂:N nanopowders obtained by the layer-by-layer self-assembling method
(2012) *Applied Surface Science*, 258 (6), pp. 2103-2106.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84855256813&partnerID=40&md5=5bc91c97555135133c64f7b39a76972e>
DOCUMENT TYPE: Article
SOURCE: Scopus

Briones, X.G., Encinas, M.V., Petri, D.F.S., Pavez, J.E., Tapia, R.A., Yazdani-Pedram, M., Urzúa, M.D.
Adsorption behavior of hydrophobically modified polyelectrolytes onto amino- or methyl-terminated surfaces
(2011) *Langmuir*, 27 (22), pp. 13524-13532. Cited 5 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-80755159556&partnerID=40&md5=d5e9d8befe2aaf870e57546986bf6d67>
DOCUMENT TYPE: Article
SOURCE: Scopus

Ríos, H.E., González-Navarrete, J., Vargas, V., Urzúa, M.D.

Surface properties of cationic polyelectrolytes hydrophobically modified
(2011) *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 384 (1-3), pp. 262-267. Cited 2 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-79959783091&partnerID=40&md5=fb8535a34b51212044a1cb9c112aef1e>

DOCUMENT TYPE: Article

SOURCE: Scopus

Silva, R.A., Urzúa, M.D., Petri, D.F.S., Dubin, P.L.

Protein adsorption onto polyelectrolyte layers: Effects of protein hydrophobicity and charge anisotropy

(2010) *Langmuir*, 26 (17), pp. 14032-14038. Cited 13 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-77957965368&partnerID=40&md5=088ee109f6d4ac93b5f592f60b21321>

DOCUMENT TYPE: Article

SOURCE: Scopus

Urzúa, M.D., Briones, X.G., Carrasco, L.P., Encinas, M.V., Petri, D.F.S.

Adsorption of anionic amphiphilic polyelectrolytes onto amino-terminated solid surfaces
(2010) *Polymer*, 51 (15), pp. 3445-3452. Cited 5 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-77954176875&partnerID=40&md5=4a6e452691fe384d8aa7eed8072cd4f0>

DOCUMENT TYPE: Article

SOURCE: Scopus

Ríos, H.E., González-Navarrete, J., Peña, M.L., Sagredo, C.D., Urzúa, M.D.

Adsorption of poly-2-(dimethylamino) ethylmethacrylate-N-alkyl quaternized at the water/chloroform interface

(2010) *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 364 (1-3), pp. 61-66. Cited 3 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-77953810108&partnerID=40&md5=fd3caf05abebdbc5a5e364c4e34c707a>

DOCUMENT TYPE: Article

SOURCE: Scopus

Leiva, A., Saldías, C., Quezada, C., Toro-Labbé, A., Espinoza-Beltrán, F.J., Urzúa, M., Gargallo, L., Radic, D.

Gold-copolymer nanoparticles: Poly(ϵ -caprolactone)/poly(N-vinyl-2-pyrrolidone)

Biodegradable triblock copolymer as stabilizer and reductant

(2009) *European Polymer Journal*, 45 (11), pp. 3035-3042. Cited 14 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-70349993868&partnerID=40&md5=567c5afc6cc22eac43364406f49920ee>

DOCUMENT TYPE: Article

SOURCE: Scopus

Basha, K.A., Balakrishnan, T., Urzúa, M., Leiva, A., Alegria, L., Gargallo, L., Radic, D.

Copolymers of phenoxyethyl methacrylate with butyl methacrylate: Synthesis, characterization and reactivity ratios

(2009) *International Journal of Polymeric Materials and Polymeric Biomaterials*, 58 (3), pp. 141-149.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-60749122808&partnerID=40&md5=17136580e862f0de7aa6dd2e8420e890>

DOCUMENT TYPE: Article

SOURCE: Scopus

Toral, M.I., González-Navarrete, J., Leiva, A., Ríos, H.E., Urzúa, M.D.
Chromium retention properties of N-alkyl quaternized poly(4-vinylpyridine)
(2009) *European Polymer Journal*, 45 (3), pp. 730-737. Cited 10 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-59849094691&partnerID=40&md5=13cf030a0cacfd2aa37dff37cac4cca6>
DOCUMENT TYPE: Article
SOURCE: Scopus

Silva, R.A., Urzúa, M.D., Petri, D.F.S.
Lysozyme binding to poly(4-vinyl-N-alkylpyridinium bromide)
(2009) *Journal of Colloid and Interface Science*, 330 (2), pp. 310-316. Cited 7 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-57449113572&partnerID=40&md5=d110040cbb731438988984725431b7aa>
DOCUMENT TYPE: Article
SOURCE: Scopus

Basha, K.A., Balakrishnan, T., Urzúa, M., Leiva, A., Alegría, L., Gargallo, L., Radic, D.
Copolymers of phenoxyethyl methacrylate with glycidyl methacrylate: Synthesis, characterization and reactivity ratios
(2008) *International Journal of Polymeric Materials and Polymeric Biomaterials*, 57 (3), pp. 216-227.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-37549063995&partnerID=40&md5=3156fc4ffb0e738bd37acdead6681ee8>
DOCUMENT TYPE: Article
SOURCE: Scopus

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)
(2008) *Journal of Colloid and Interface Science*, 318 (2), pp. 183-187. Cited 7 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-37449034975&partnerID=40&md5=51b3bf38b383014f4575eaa0892d11c6>
DOCUMENT TYPE: Article
SOURCE: Scopus

Urzua, M., Leiva, A., Alegria, L., Gargallo, L., Radic, D.
Blends containing amphiphilic polymers VI. Compatibilization of N-alkylitaconamic acid-co-styrene copolymers with poly(hydroxypropyl methacrylate) and poly(4-vinylphenol)
(2007) *International Journal of Polymeric Materials and Polymeric Biomaterials*, 56 (7), pp. 687-696. Cited 3 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-34247327363&partnerID=40&md5=408c35149b838e67d6b8f77449732cb5>
DOCUMENT TYPE: Article
SOURCE: Scopus

Basha, K.A., Balakrishnan, T., Urzúa, M., Leiva, A., Gargallo, L., Radic, D.
Copolymers of phenoxyethyl methacrylate with N-vinyl-2-pyrrolidone: Synthesis, characterization and reactivity ratios
(2007) *Journal of Macromolecular Science, Part A: Pure and Applied Chemistry*, 44 (1), pp. 105-111. Cited 1 time.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-33845544738&partnerID=40&md5=2822fe2191636c8e2602dc819680953f>
DOCUMENT TYPE: Article
SOURCE: Scopus

Urzúa, M., Sandoval, C., González-Nilo, F., Leiva, A., Gargallo, L., Radić, D.
Blends containing amphiphilic polymers. V. Compatibilization of N-alkylitaconamic acid-co-styrene copolymers with interacting polymers
(2006) *Journal of Applied Polymer Science*, 102 (3), pp. 2512-2519.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-33750306142&partnerID=40&md5=caf0b45e4ac02c1146085936334b9861>
DOCUMENT TYPE: Article
SOURCE: Scopus

Leiva, A., Urzúa, M., Gargallo, L., Radić, D.
Poly(ethylene oxide)s hydrophobically modified. Adsorption and spreading at the air-water interface
(2006) *Journal of Colloid and Interface Science*, 299 (1), pp. 70-75. Cited 4 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-33646882377&partnerID=40&md5=0c2f95acfdb7e5dcc81b5adb05d348c3>
DOCUMENT TYPE: Article
SOURCE: Scopus

Ríos, H.E., Fonseca, C.K., Brito, C., Urzúa, M.D., Cabrera, W.J.
Adsorption of poly(mono-n-alkylmaleate-alt-N-vinyl-2-pyrrolidone) sodium salts at air/water interface
(2006) *Journal of Macromolecular Science - Physics*, 45 B (2), pp. 335-342. Cited 2 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-33645104988&partnerID=40&md5=af3a1d1fe303a650781891f3b8922d8f>
DOCUMENT TYPE: Article
SOURCE: Scopus

Cabrera, W.J., Kaempfe, M.A., Urzúa, M.D., Ríos, H.E.
Potentiometric behavior of ion-selective electrodes to large cationic species modulated by decyl alcohol
(2006) *Journal of Colloid and Interface Science*, 295 (1), pp. 155-158. Cited 4 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-28444474219&partnerID=40&md5=19466a2bc6df46a246046e2ee38e885c>
DOCUMENT TYPE: Article
SOURCE: Scopus

Cabrera, W.J., Urzúa, M.D., Ríos, H.E.
Influence of decyl alcohol on the potentiometric behavior of three p-alkylbenzenesulfonate ion-selective electrodes
(2005) *Journal of Colloid and Interface Science*, 288 (2), pp. 517-520.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-20344391137&partnerID=40&md5=6ae99bea1c50d8e3829208dd5cf4f75a>
DOCUMENT TYPE: Article
SOURCE: Scopus

Tagle, L.H., Terraza, C., Valenzuela, P., Leiva, A., Urzúa, M.
Thermal studies of poly(esters) containing silicon or germanium in the main chain
(2005) *Thermochimica Acta*, 425 (1-2), pp. 115-119. Cited 13 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-11444251449&partnerID=40&md5=cad276905282c585965a248e81875a0d>
DOCUMENT TYPE: Article
SOURCE: Scopus

Urzua, M.D., Mendizábal, F.J., Cabrera, W.J., Ríos, H.E.

Interfacial properties of poly(maleic acid-alt-1-alkene) disodium salts at water/hydrocarbon interfaces

(2005) *Journal of Colloid and Interface Science*, 281 (1), pp. 93-100. Cited 4 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-9644302516&partnerID=40&md5=978ecec4e76d55967a7cd1b68a2ec33e)

[9644302516&partnerID=40&md5=978ecec4e76d55967a7cd1b68a2ec33e](http://www.scopus.com/inward/record.url?eid=2-s2.0-9644302516&partnerID=40&md5=978ecec4e76d55967a7cd1b68a2ec33e)

DOCUMENT TYPE: Article

SOURCE: Scopus

Gargallo, L., Leiva, A., Urzúa, M., Alegría, L., Miranda, B., Radić, D.

Modification of the air-water interface by a chitosan adsorption process. Effect on an amphiphilic polymer monolayer

(2004) *Polymer International*, 53 (11), pp. 1652-1657. Cited 6 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-6444225664&partnerID=40&md5=ef00862e3e25162030ea82369116d0f3)

[6444225664&partnerID=40&md5=ef00862e3e25162030ea82369116d0f3](http://www.scopus.com/inward/record.url?eid=2-s2.0-6444225664&partnerID=40&md5=ef00862e3e25162030ea82369116d0f3)

DOCUMENT TYPE: Article

SOURCE: Scopus

Gargallo, L., Miranda, B., Leiva, A., Radić, D., Urzua, M., Ríos, H.

Surface activity of hydrophobically modified alternating copolymers

(2004) *Polymer*, 45 (15), pp. 5145-5150. Cited 4 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-3042525888&partnerID=40&md5=97df131f020419c9cfb52c471c311589)

[3042525888&partnerID=40&md5=97df131f020419c9cfb52c471c311589](http://www.scopus.com/inward/record.url?eid=2-s2.0-3042525888&partnerID=40&md5=97df131f020419c9cfb52c471c311589)

DOCUMENT TYPE: Article

SOURCE: Scopus

Gonzalez-Nilo, F.D., Urzua, M., Leiva, A., Gargallo, L., Radić, D.

Interaction Energy in Polymer Blends Containing N-1-Alkylitaconamic Acids Moiety

(2003) *Journal of Macromolecular Science - Physics*, 42 B (6), pp. 1281-1291. Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0242665533&partnerID=40&md5=135b02fd9dd6dbf10186e1fee6477e37)

[0242665533&partnerID=40&md5=135b02fd9dd6dbf10186e1fee6477e37](http://www.scopus.com/inward/record.url?eid=2-s2.0-0242665533&partnerID=40&md5=135b02fd9dd6dbf10186e1fee6477e37)

DOCUMENT TYPE: Article

SOURCE: Scopus

Cabrera, W.J., Urzúa, M., Ríos, H.E.

Effect of phenols on the potentiometric response of a nitrate-ion-selective electrode

(2003) *Journal of Colloid and Interface Science*, 265 (1), pp. 44-48. Cited 2 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0042572097&partnerID=40&md5=2b80a2ee9f93fd07444b52ea39092b4e)

[0042572097&partnerID=40&md5=2b80a2ee9f93fd07444b52ea39092b4e](http://www.scopus.com/inward/record.url?eid=2-s2.0-0042572097&partnerID=40&md5=2b80a2ee9f93fd07444b52ea39092b4e)

DOCUMENT TYPE: Article

SOURCE: Scopus

Urzua, M.D., Cabrera, W.J., Ríos, H.E.

Surface properties of poly(N-monoalkylmaleamic acid-alt-styrene) sodium salts: Effect of the molecular weight and the side chain length

(2003) *Journal of Colloid and Interface Science*, 264 (1), pp. 284-289. Cited 4 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0041667856&partnerID=40&md5=606689450e3471e2a675303de7381568)

[0041667856&partnerID=40&md5=606689450e3471e2a675303de7381568](http://www.scopus.com/inward/record.url?eid=2-s2.0-0041667856&partnerID=40&md5=606689450e3471e2a675303de7381568)

DOCUMENT TYPE: Article

SOURCE: Scopus

Miranda, B., Gargallo, L., Urzúa, M., Leiva, A., González-Nilo, F., Radić, D.

N-1-alkylitaconamic acids-co-styrene copolymers. Surface characterization

(2003) *Polymer*, 44 (14), pp. 3969-3975. Cited 2 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-0037497364&partnerID=40&md5=a5fd44dc8c4c4a085161ebfad6e953b>
DOCUMENT TYPE: Article
SOURCE: Scopus

Urzúa, M.D., Ríos, H.E.
Adsorption of poly(4-vinylpyridine) N-alkyl quaternized at the chloroform/water interface (2003) *Polymer International*, 52 (5), pp. 783-789. Cited 11 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0038182969&partnerID=40&md5=cde7eb5786e2ded1a1967431657a3324>
DOCUMENT TYPE: Article
SOURCE: Scopus

Urzúa, M., Tagle, L.H., Gargallo, L., Radić, D.
Thermal analysis of polymers and copolymers derived from N-1-alkylitaconamic acids (2003) *International Journal of Polymeric Materials and Polymeric Biomaterials*, 52 (4), pp. 295-306. Cited 1 time.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-17044418773&partnerID=40&md5=ef3b79b5071aee2cdec03d8ed359a226>
DOCUMENT TYPE: Review
SOURCE: Scopus

Urzua, M., Gargallo, L., Radi, D.
Blends containing amphiphilic polymers IV. Poly(N-1-alkyl itaconamic acids) with Poly(2-vinylpyridine) and Poly(4-vinylphenol) (2002) *Journal of Applied Polymer Science*, 84 (6), pp. 1245-1250. Cited 5 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0037138342&partnerID=40&md5=c1d4f0394d84d731218f5ac7bcdd0710>
DOCUMENT TYPE: Article
SOURCE: Scopus

Ríos, H.E., Urzúa, M.
Ion exchange equilibrium in polyelectrolyte solutions through the CHCl₃/water interface (2001) *Journal of Colloid and Interface Science*, 242 (2), pp. 460-464. Cited 6 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0035887687&partnerID=40&md5=a09e739ae7d9eb5cb444b3b7bad4af5a>
DOCUMENT TYPE: Article
SOURCE: Scopus

Urzúa, M., Gargallo, L., Radić, D.
Blends containing amphiphilic polymers. II. Poly(N-1-alkyl itaconamic acids) with poly(4-vinylpyridine) and poly(2-hydroxypropyl methacrylate) (2000) *Journal of Macromolecular Science - Physics*, 39, . Cited 4 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0342472145&partnerID=40&md5=f4b9612c31b0a4fe923c536c9a6156c9>
DOCUMENT TYPE: Article
SOURCE: Scopus

Urzúa, M., Gatica, N., Gargallo, L., Radić, D.
N-1-alkylitaconamic acids-co-styrene copolymers. 1. Synthesis, characterization and monomer reactivity ratios (2000) *Journal of Macromolecular Science - Pure and Applied Chemistry*, 37 A (1-2), pp. 37-47. Cited 11 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0003001714&partnerID=40&md5=511d73fc2ea28cc43168bb4d0e2bd845>

DOCUMENT TYPE: Article

SOURCE: Scopus

Urzúa, M., Opazo, A., Gargallo, L., Radić, D.

Poly(N-1-alkylitaconamic acids)/poly(N-vinyl-2-pyrrolidone) blends

(1998) Polymer Bulletin, 40 (1), pp. 63-67. Cited 16 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0->

0002098729&partnerID=40&md5=9e1a7fbc87937972d3c19c45b32a281

DOCUMENT TYPE: Article

SOURCE: Scopus

PROYECTOS DE INVESTIGACIÓN:

COINVESTIGADOR. 1120119 POLYMER THIN FILMS CONTAINING NOBLE METAL NANOPARTICLES. STUDY OF SYNTHESIS, CHARACTERIZATION AND EVALUATION OF POTENTIAL APPLICATIONS. 2012

INVESTIGADOR RESPONSABLE. 1100240 POLYELECTROLYTES MODIFIED WITH BIOMOLECULES. ADSORPTION ONTO SOLID SURFACES. 2010

INVESTIGADOR RESPONSABLE. 1070857 POLIELECTROLITOS NANOESTRUCTURADOS SOBRE SUPERFICIES SOLIDAS HIDROFOBICAS E HIDROFILICAS. 2007

COINVESTIGADOR. 1040646 PROPIEDADES DE POLIELECTROLITOS ANFIPATICOS EN INTERFACES. 2004

INVESTIGADOR RESPONSABLE. 3000041 POLIELECTROLITOS ANFIPATICOS EN INTERFACES. 2000

Actualización, mayo 2014