

## Publications last five years

149- Poly(N-vinylcaprolactam) Nanogels with Antiviral Behavior against HIV-1 Infection

Micaela A. Macchione, Carlos Guerrero-Beltrán, Anabella P. Rosso, Esteban M. Euti, Marisa Martinelli, **Miriam C. Strumia\*** and Maria Ángeles Muñoz-Fernández.

*Scientific Reports*, volume 9, Article number: 5732 (2019). <https://doi.org/10-1038/s41598-019-42150-9>

150- Raman spectroscopy as a tool to evaluate oxygen effects on the response of polymer gel dosimetry.

Chacón, D., Vedelago, J., **Strumia, M.C.**, Valente, M., Mattea, F\*.

*Applied Radiation and Isotopes*, 150, 43-52 (2019).

<https://doi.org/10.1016/j.apradiso.2019.05.006>

151- Physico-chemistry of a successful micro-reactor: Random coils of chitosan backbones used to synthesize size-controlled silver nanoparticles

Oscar A. Douglas-Gallardo, Carlos A. Christensen, **Miriam C. Strumia**, Manuel A. Pérez, Cesar G. Gomez\*.

*Carbohydrate Polymers*, 225, 115240, (2019). <https://doi.org/10.1016/j.carbpol.2019.115241>

152- Dual-responsive nanogels based on oligo(ethylene glycol) methacrylates and acidic co-monomers.

Micaela A. Macchione, M. Florencia Sacarelli, Ana C. Racca, Catalina Biglione, Graciela M. Panzetta-Dutari and **Miriam C. Strumia\***

*Soft Matter*. 15, 9700-9709. (2019). DOI:10.1039/c9sm01180c

153- Original antifouling strategy: Polypropylene films modified with chitosan-coated silver nanoparticles

Giuliana Mosconi, María Fernanda Stragliotto, Walter Slenk, Laura E. Valenti, Carla E. Giacomelli, **Miriam C. Strumia**, Cesar G. Gomez\*

*Journal Applied Polym. Sci.* 137(10),48448 (2020). DOI: 10.1002/app.48448

154- Volumetric properties of carbón dioxide + acrylic acid binary in the context of supercritical precipitation polymerization.

Matias Menossi, Juan Milanésio\*, Séverine Camy, Simon Harrisson, **Miriam Strumia**, Mathias Destarac.

*The Journal Supercritical Fluids*,160, 104787, (2020).

<https://doi.org/10.1016/j.supflu.2020.104787>

155- Effect of including a hydrophobic comonomer on the rheology of an acrylamide-acrylic acid based copolymer.

Roger M. Juárez Data, Facundo Mattea\*, **Miriam C. Strumia** and Juan M. Milanésio.

*Journal Applied Polym. Sci.* 137(47),49532. (2020). DOI: 10.1002/app.49532

156- Revealing the NIR Triggered Chemotherapy Therapeutic Window of Magnetic and Thermo-responsive Nanogels.

Catalina Biglione, Julian Bergueiro, Stefanie Wedepohl, Bastian Klemke, **Miriam C. Strumia\*** and Marcelo Calderón\*

*Nanoscale*, 12, 21635-21646, (2020), DOI: 10.1039/D0NR02953J

157- The role of polymers in analytical medical applications. A review

Marcelo Romero, Micaela. A. Macchione, Facundo Mattea\*, **Miriam Strumia**.  
*Microchemical Journal*, 159,105366. 2020, <https://doi.org/10.1016/j.microc.2020.105366>

158- Biopesticidal silo bag prepared by co-extrusion process  
Herrera, J M\*; Zygadlo, J A ; **Strumia, M C** ; Peralta, E .  
*Food Packaging and Shelf Life*, 28, 100645, 2021. DOI:  
<https://doi.org/10.1016/j.fpsl.2021.100645>

159- Polystyrene Brushes/TiO<sub>2</sub> Nanoparticles Prepared via SI-ATRP on Polypropylene and its Superhydrophobicity.  
Cintia Contreras, Daniel Weibel\* and **Miriam Strumia**\*.  
*J. Polym. Research* (Springer), 28, 103 (2021) <https://doi.org/10.1007/s10965-021-02462-9>

160- Biobased polyester from soybean oil: Synthesis, characterization and degradation studies  
Mariana Bernard, Verónica Nicolau\* and **Miriam Strumia**\*  
*Polyolefins Journal*. Vol. 9, No. 1, 45-60 (2022). DOI: [10.22063/POJ.2021.3019.1203](https://doi.org/10.22063/POJ.2021.3019.1203)

161- Antimicrobial modification of polypropylene films by photograft and layered double hydroxides assembly  
Giuliana Mosconi, Yadira Salguero, Laura E. Valenti, Ricardo Rojas, **Miriam C. Strumia**, Cesar G. Gomez, Carla E. Giacomelli\*  
*Reactive and Functional Polymers*. 178 (2022) 105349.  
DOI: <https://doi.org/10.1016/j.reactfunctpolym.2022.105349>

162- The disulfide bond as a key motif for the construction of multivalent glycoclusters.  
María Emilia Cano, Walter Jara, Alejandro Cagnoni, Emmanuel Brizzio, **Miriam C. Strumia**, Evangelina Repetto and María Laura Uhrig\*  
*New J. Chem.*, 46, 17682-17695 (2022). DOI: <https://doi.org/10.1039/D2NJ03071C>

163- Chemical overview of gel dosimetry systems: A Comprehensive Review  
Micaela Macchione, Leidy Sofía Lechón Páez, **Miriam Cristina Strumia**, Mauro Valente \*, Facundo Mattea \*  
*Gels*, 8, 663-690. 2022. <https://doi.org/10.3390/gels8100663>.  
<https://www.mdpi.com/2310-2861/8/10/663>

164- Organic Chemistry in Argentina and the Genesis of SAIQO  
Special Issue: Organic Chemistry in Argentina: Research from XXIII SINAQO  
Miriam Strumia, Juan Argüello and Alejandro Fracaroli. (Guest Editors)  
*J. Org. Chem.*, 87, 13423–13426 (2022). DOI: <https://doi.org/10.1021/acs.joc.2c01958>  
*Org. Lett.*, 24, 7483–7486. (2022). DOI: <https://doi.org/10.1021/acs.orglett.2c02837>

165- Mesoporous silica and oligo (ethylene glycol) methacrylates-based dual-responsive hybrid nanogels  
Micaela A. Macchione, Dariana Aristizabal, Eva Rivero-Buceta, Pablo Botella \*, **Miriam C. Strumia** \*  
*Nanomaterials*, 12, 3835-3854, (2022) <https://doi.org/10.3390/nano12213835>