

## CURRICULUM VITAE Prof. Dr. Marta I. Litter

### 1. PERSONAL DATA

Surname: LITTER  
Forename: Marta Irene  
Place of birth: Buenos Aires, Argentina  
Date of birth: 03/08/1946  
Nationality: Argentine  
ID: 5.426.852  
Address: Las Heras 3898-6 R  
City: Buenos Aires  
Zip code: 1425  
Mobile phone: 54 9 11 30132915  
e-mail: martalitter24@gmail.com

Social networks: ResearchGate ([https://www.researchgate.net/profile/Marta\\_Litter](https://www.researchgate.net/profile/Marta_Litter)), ORCID  
(<https://orcid.org/0000-0002-0312-0177>), Scholar Google  
(<https://scholar.google.com.ar/citations?user=wkpCDyMAAAAJ&hl=es>), UNSAM website  
(<http://www.unsam.edu.ar/i/Litter-Marta>)

### 2. ACADEMIC BACKGROUND

1969. University graduate in Chemical Sciences, Exact and Natural Sciences Faculty, Buenos Aires University (FCEN, UBA)  
1970-1972. Initial fellowship, National Research Council of Science and Technique of Argentina (Consejo Nacional de Investigaciones Científicas y Técnicas, CONICET).  
1973. Doctor in Chemistry; FCEN, UBA  
1970-1975. Researcher and teacher at FCEN, UBA  
1975-1983. Researcher and teacher at universities of Venezuela and Mexico  
1983-1984. Postdoctoral studies (Research Associate), Arizona University, USA, Advisor: Prof. C. S. Marvel.  
1984-. Researcher at National Atomic Energy Commission of Argentina (CNEA)  
1984-2003. Full Professor at the National Technological University, Buenos Aires Regional (FRBA, UTN)  
1998-2006. Head of the Group of Colloids and Inorganic Oxides, Chemistry Management, National Atomic Energy Commission of Argentina (Gerencia Química, Comisión Nacional de Energía Atómica, GQ, CNEA).  
1996-2000. A-6 Researcher, GQ, CNEA.  
2004-2009. In charge of the course "Water Chemistry and Hydric Contamination", Career in Chemical Sciences and Environment, FCEN, UBA.

#### Last positions:

2000-2018 Principal Senior Researcher, GQ, CNEA.  
2014- Senior researcher, CONICET.  
2004- Full Professor, Institute of Environmental Engineering and Research, National University (Instituto de Ingeniería e Investigación Ambiental, Universidad de San Martín, 3IA, UNSAM), Argentina.  
2008-2018 Head of the division "Chemistry of the Environmental Remediation", Environmental Chemistry Department, GQ-CNEA.  
2018- Consultant School of Habitat and Sustainability, National University of San Martin, Argentina

#### Researcher at the following centers:

- University of Buenos Aires
- Metropolitan University, Caracas, (Venezuela)
- Autonomous University of México (México)
- University of Arizona (USA)
- National Atomic Energy Commission (Argentina)
- National University of San Martin (Argentina)

#### Research areas

- Carbohydrates
- Environmental pollution (water and air)
- Polymers
- Phthalocyanines
- Inorganic Photochemistry: Photodissolution of oxides
- Photocatalysis and Advanced Oxidation/Reduction Technologies
- Use of nanozerovalent iron for removal of pollutants

**Present research project:**

Studies on Photochemical Processes for water and air treatment (Advanced Oxidation Technologies, Nanozerovalent Iron, Photo-Fenton, Ultrasound, and other processes).

**Other backgrounds:**

- h-index: 63 (15500 citations in the literature, Google Scholar Citations, June 2023)
- Professor in the Postgraduate course in Environmental Engineering, FRBA, UTN, 1994 and 1995.
- Course: “New advances in the treatment of aqueous effluents: Advanced Oxidation Technologies”, lectured in several national, Latin American, and Spanish research centers and universities.
- Jury of several theses and teaching oppositions.
- Focal point of Argentina, CYTED VIII-G Network.
- Referee of projects and international journals.
- Member of SETAC LA Board.
- Member of the IUPAC Subcommittee of Photochemistry, 2003.
- Member of several Scientific Committees of meetings and books.
- Category I, Incentive Program Ministry of Education.
- Leader Editor of an especial issue on Nanotechnologies for Hazard. Mater., 2011.

**Prizes**

- Honored, Metropolitan University, Caracas, Venezuela, 1979.
- Intergovernmental Committee for Migrations, Return of Talents Programme, reinstallation in Argentina, 1984.
- SETAC 2001 Prize, IV SETAC LA, Buenos Aires, 2001.
- SETAC 2003 Mention, VI SETAC LA, Buenos Aires, 2003
- Sabato Institute in Materials Prize, advisor of the Best Magister Thesis: “Photocatalytic Properties of ZrO<sub>2</sub> and ZrO<sub>2</sub> doped with iron prepared by a sol-gel technique”, S. Botta (2004).
- Mercosur Prize in Science and Technology, 2006. Technologies for Social Inclusion, for the work: “Potabilization of water by low-cost technologies in isolated rural zones of Mercosur”. Awarded by UNESCO, RECYT and *Movimiento Brasil Competitivo*.
- Project “Cities, Science and Sustainability: Examples of Successful Applications in the South”, 2007, Trieste, Italia, sponsored by the Academy of Sciences of the Third World, the United Nations Development Programme’s special unit for South-South Cooperation (UNDP-SSC), and the Consortium on Science, Technology, and Innovation for the South (COSTIS). First place in the session.
- 1st. Prize, COPIME 2007, October 2007, Argentina.
- 2nd. Prize, 1st. Meeting of the Central Region of Sanitary and Environmental Engineering, 2009, Argentina.
- INNOVAR Prize 2009 (Ministry of Science, Technology and Productive Innovation of Argentina, MINCYT). Project: “Mitigation of arsenic in drinking water”, Category: Applied Research.
- Proposed by CNEA for the Rebeca Gerschman Prize (MINCYT), 2010.
- First Mention, Sabato Institute in Materials Prize, advisor of the second-best Magister Thesis: “Preparation of immobilized TiO<sub>2</sub> photocatalysts for use in water potabilization”, M.L. Vera (2010).
- First prize, best work of the section: Mechanisms of chemical and photochemical reactions, XVII Argentine Meeting on Physical Chemistry and Inorganic Chemistry, 2011, Argentina.
- 1st. Prize, COPIME 2011, October 2011.
- Mercosur Prize in Science and Technology, 2011. Technologies for Sustainable Development, for the work: “Potabilization of water by low-cost technologies in isolated rural zones of Mercosur”. For the work: “The problem of arsenic in the Mercosur. An integrated and multidisciplinary approach in the research and development to contribute to its resolution”. Awarded by UNESCO, RECYT and *Movimiento Brasil Competitivo*.
- 1st. Prize, best poster Arsenic Problem Section, International Congress of Science and Technology, 28 May- 1 June 2012, Mar del Plata, Argentina, “Arsenic removal from water by heterogeneous photocatalysis with TiO<sub>2</sub>”, I.K. Levy, M. Mizrahi, G. Ruano, G. Zampieri, F.G. Requejo, M.I. Litter.
- 1st. Prize, COPIME 2013, October 2013. Two prizes
- 2<sup>nd</sup>. and 3<sup>rd</sup>. Prize, COPIME 2015.
- Acknowledge to the trajectory as Pioneer in Photocatalysis in Argentina, Fourth Latin-American Congress of Photocatalysis, Photoelectrochemistry and Photobiology - LACP3 2016, Universidad Industrial de Santander, Piedecuesta (Bucaramanga), Santander, Colombia.
- Proposed by CNEA for the México Prize on Science and Technology 2016.
- Nominated to the TWAS Prize in Chemistry, 2017 Edition.

- Proposed by CNEA for the Houssay Prize (Trajectory) in Environment, 2017.
- TWAS fellowship, 2019.
- ACAL fellowship, 2019.
- Preselected for the prize L'Oreal-UNESCO for Women in Science from 59 out of 296 candidatures, 2021.
- Dr. Eduardo Charreau prize for Regional Scientific-Technological Cooperation, 2021 ed.
- Certificate of Excellence, ScienceFather International Research Awards on New Science Inventions NESIN 2021 Awards, Approved and Registered by Ministry of Corporate Affairs (MCA), Govt. of India.
- Latin American Women in Chemistry Award, 1st. edition, American Chemical Society (ACS) and the Latin American Federation of Chemical Associations (FLAQ), Nov. 2021.
- 1st. Award for the Best Graphic Diffusion in recognition of the work "Influence of anodization variables in TiO<sub>2</sub> nanotubes for the photocatalytic reduction of Cr(VI)", A.N. Dwojak, M.L. Vera, H.D. Traid, M.F. Maydana, M.I. Litter, C.E. Schvezov, presented at the 3rd. Scientific Conference of the Institute of Materials of Missions, 3-5 November 2021, virtual.
- 3rd. Award for the Best Oral Exhibition in recognition of the work "Influence of anodization variables in TiO<sub>2</sub> nanotubes for the photocatalytic reduction of Cr(VI)", A.N. Dwojak, M.L. Vera, H.D. Traid, M.F. Maydana, M.I. Litter, C.E. Schvezov, presented at the 3rd. Scientific Conference of the Institute of Materials of Missions, 3-5 November 2021, virtual.
- Houssay Trajectory Award 2022, area of Environmental Sciences and Technologies, delivered by the Ministry of Science, Technology and Innovation of the Argentine Nation, December 2, 2022.
- Konex-Diploma of Merit Award, September 12, 2023, Physicochemical and Inorganic Chemistry category.

#### **Publications, meetings, conferences**

- ◆ Author of more than 250 publications in international journals and chapters of books and books mainly in international journals of high impact in the area of organic and physical chemistry (including environmental sciences).
- ◆ Dissertations in meetings and several research centers (more than 60).
- ◆ More than 500 presentations at international, regional, and national scientific meetings in Europe, Latin America, Japan, USA, Taiwan, and Argentina.

#### **Publications in indexed refereed international and national journals**

1. "Anomalous Reaction of D-Gluconamide with Benzoyl Chloride in Anhydrous Pyridine", J.O. Deferrari, R.M. de Lederkremer, M.I. Litter, *Carbohyd. Res.* 14 (1970) 103–107. doi:10.1016/S0008-6215(00)80704-1, <http://www.sciencedirect.com/science/article/pii/S0008621500807041>.
2. "The Formation of an Unsaturated Lactone Derivative on Benzoylation of D-Galactonolactone", R.M. de Lederkremer, M.I. Litter, *Carbohyd. Res.* 20 (1971) 442–444. doi:10.1016/S0008-6215(00)81405-6, <http://www.sciencedirect.com/science/article/pii/S0008621500814056>.
3. "Beta-elimination in Aldonolactones. The Formation of an Unsaturated Derivative on Benzoylation of D-Glycero-D-Gulo-Heptono-1,4-Lactone", M.I. Litter, R.M. de Lederkremer, *Carbohyd. Res.* 26 (1973) 431–434. doi:10.1016/S0008-6215(00)84532-2, <http://www.sciencedirect.com/science/article/pii/S0008621500845322>.
4. "Eliminación beta en Aldonolactonas. Formación de dos Derivados de (5H)-furan-2-ona por Benzoilación de D-glicero-D-gulo-heptono-1,4-lactona" (Elimination beta in Aldonolactones. Formation of two derivative of (5H)-furan-2-one by Benzoylation of D-glicero-D-gulo-heptono-1,4-lactone), M.I. Litter, R.M. de Lederkremer, *Anales de la Asociación Química Argentina* 62 (1974) 147–150. doi not reported.
5. "Beta-elimination in Aldonolactones: A Convenient Synthesis of 2,4,6-tri-O-benzoyl-3-deoxy-D-arabinohexono-1,5-lactone", R.M. de Lederkremer, M.I. Litter, L.F. Sala, *Carbohyd. Res.* 36 (1974) 185–187. doi:10.1016/S0008-6215(00)82004-2, <http://www.sciencedirect.com/science/article/pii/S0008621500820042>.
6. "Síntesis de resinas alquídicas a partir de sacarosa y aceites vegetales" (Synthesis of alkyd resins from sucrose and vegetal oils), M.I. Litter, M.C. Andara, J. Benlolo, L.M. Rincón, *Acta Científica Venezolana* 31 (1980) 398–403. doi not reported.
7. "Polyaromatic Ether-ketones and Polyaromatic Ether-ketone Sulfonamides from 4-phenoxybenzoylchloride and from 4,4'-dichloroformyl-diphenyl ether", M.I. Litter, C.S. Marvel, *J. Polym. Sci., Polym. Chem. Ed.* 23 (1985) 2205–2223. doi: 10.1002/pol.1985.170230811, <http://onlinelibrary.wiley.com/doi/10.1002/pol.1985.170230811/pdf>.
8. "Photodissolution of Iron Oxides I: Maghemite in EDTA Solutions", M.I. Litter, M.A. Blesa, *J. Colloid. Interface Sci.* 125 (1988) 679–687. doi:10.1016/0021-9797(88)90035-5, <http://www.sciencedirect.com/science/article/pii/0021979788900355>.
9. "Photodissolution of Iron Oxides II: The Lack of Efficiency of Thiocyanate", M.I. Litter, M.A. Blesa, *Can. J. Chem.* 68 (1990) 728–730. doi: 10.1139/v90-114, <http://www.nrcresearchpress.com/doi/pdf/10.1139/v90-114>.

10. "Photodissolution of Iron Oxides III: The Interplay of Photochemical and Thermal Processes in Maghemite/Carboxylic acid Systems", M.I. Litter, E.C. Baumgartner, G.A. Urrutia, M.A. Blesa, *Environ. Sci. Technol.* 25 (1991) 1907–1913. doi: 10.1021/es00023a011, <http://pubs.acs.org/doi/abs/10.1021/es00023a011>.
11. "Photodissolution of iron oxides IV: A comparative study on the photodissolution of hematite, magnetite and maghemite in EDTA media", M.I. Litter, M.A. Blesa, *Can. J. Chem.* 70 (1992) 2502–2510. doi: 10.1021/es00023a011, <http://pubs.acs.org/doi/abs/10.1021/es00023a011>.
12. "Synthesis, magnetic and spectroscopic studies of novel chloro (phthalocyaninato) tungsten(II), and chloro (phthalocyaninato) (oxo) (hydroxo) tungsten(V)", J. Padilla, M.I. Litter, A. Campero, *Anales de la Real Sociedad Española de Química* 89 (1993) 177–180. doi not reported.
13. "Effect of Anionic Polyelectrolytes on the Dissolution of Magnetite in Thioglycolic Acid Solutions", E.C. Baumgartner, J. Romagnolo, M.I. Litter, *J. Chem. Soc., Faraday Trans.*, 89 (1993) 1049–1055. doi: 10.1039/FT9938901049, <http://pubs.rsc.org/en/Content/ArticleLanding/1993/FT/ft9938901049>.
14. "Comparison of the photocatalytic efficiency of TiO<sub>2</sub>, iron oxides and mixed Ti(IV)/Fe(III) oxides. Photodegradation of oligocarboxylic acids", M.I. Litter, J.A. Navío, *J. Photochem. Photobiol. A: Chem.*, 84 (1994) 183–193. doi:10.1016/1010-6030(94)03858-9, <http://www.sciencedirect.com/science/article/pii/1010603094038589>.
15. "Photodissolution of iron oxides in malonic acid", M.I. Litter, M. Villegas, M.A. Blesa, *Can. J. Chem.* 72 (1994) 2037–2043. doi: 10.1139/v94-260, <http://www.nrcresearchpress.com/doi/pdf/10.1139/v94-260>.
16. "Synthesis, characterization and photocatalytic properties of iron-doped titania semiconductors prepared from TiO<sub>2</sub> and iron(III) acetylacetonate", J.A. Navío, G. Colón, M.I. Litter, G.N. Bianco, *J. Molec. Cat. A*, 106 (1996) 267–276. doi:10.1016/1381-1169(95)00264-2, <http://www.sciencedirect.com/science/article/pii/1381116995002642>.
17. "Photocatalytic properties of iron-doped titania semiconductors", M.I. Litter, J.A. Navío, *J. Photochem. Photobiol., A: Chem.* 98 (1996) 171–181, review. doi:10.1016/1010-6030(96)04343-2, <http://www.sciencedirect.com/science/article/pii/1010603096043432>.
18. "Sensitization of TiO<sub>2</sub> by phthalocyanines I: Photooxidations with hydroxoaluminumtricarboxymonoamidephthalocyanine", J. Hodak, C. Quinteros, M.I. Litter, E. San Román, *J. Chem. Soc., Faraday Trans.* 92 (1996) 5081–5088. doi: 10.1039/FT9969205081, <http://pubs.rsc.org/en/content/articlelanding/1996/ft/ft9969205081>.
19. "Phthalocyanines bound to insoluble polystyrene. Synthesis and properties as energy transfer photosensitizers", J.L. Bourdelande, M. Karzazi, G. Marqués Tura, L.E. Dixelio, M.I. Litter, E.A. San Román, V. Vinent, *J. Photochem. Photobiol., A: Chem.* 108 (1997) 273–282. doi:10.1016/S1010-6030(97)00096-8, <http://www.sciencedirect.com/science/article/pii/S1010603097000968>.
20. "Heterogeneous photocatalytic reactions of nitrite oxidation and Cr(VI) reduction on iron-doped titania prepared by the wet impregnation method", J.A. Navío, G. Colón, M. Trillas, J. Peral, X. Domènech, J.J. Testa, D. Rodríguez, J.R. Padrón, M.I. Litter, *Appl. Catal. B: Environ.* 16 (1998) 187–196. doi:10.1016/S0926-3373(97)00073-8, <http://www.sciencedirect.com/science/article/pii/S0926337397000738>.
21. "Effect of Cationic Polyelectrolytes on the Dissolution of Magnetite in Thioglycolic Acid Solutions", E.C. Baumgartner, M.I. Litter, J. Romagnolo, M.A. Blesa, *J. Chem. Soc., Faraday Trans.*, 94 (1998) 115–119. doi: 10.1039/A705500E, <http://pubs.rsc.org/is/content/articlelanding/1998/ft/a705500e>.
22. "Modeling of Fluorescence Quantum Yields of Supported Dyes: Aluminium Carboxyphthalocyanine on Cellulose", M.G. Lagorio, L.E. Dixelio, M.I. Litter, E. San Román, *J. Chem. Soc., Faraday Trans. I*, 94 (1998) 419–425. doi: 10.1039/A706113G, <http://pubs.rsc.org/en/content/articlelanding/1998/ft/a706113g#>.
23. "Photocatalysis with Fe/TiO<sub>2</sub> semiconductors and TiO<sub>2</sub> sensitized by phthalocyanines", E. San Román, J.A. Navío, M.I. Litter, *J. Adv. Oxid. Technol.*, 3 (1998) 261–269. doi not reported.
24. "Iron-doped titania semiconductor powders prepared by a sol-gel method. I: Synthesis and Characterization", J.A. Navío, G. Colón, M. Macías, C. Real, M.I. Litter, *Appl. Catal. A: General* 177 (1999) 111–120. doi:10.1016/S0926-860X(98)00255-5, <http://www.sciencedirect.com/science/article/pii/S0926860X98002555>.
25. "Iron-doped titania powders prepared by a sol-gel method. II: Photocatalytic Properties", J.A. Navío, J.J. Testa, P. Djedjeian, J.R. Padrón, D. Rodríguez, M.I. Litter, *Appl. Catal. A: General*, 178 (1999) 191–203. doi:10.1016/S0926-860X(98)00286-5, <http://www.sciencedirect.com/science/article/pii/S0926860X98002865>.
26. "Heterogeneous Photocatalysis. Transition metal ions in photocatalytic systems", M.I. Litter, *Appl. Catal. B: Environ.*, invited review, 23 (1999) 89–114. doi:10.1016/S0926-3373(99)00069-7, <http://www.sciencedirect.com/science/article/pii/S0926337399000697>.
27. "Photocatalytic properties of ZrO<sub>2</sub> and Fe(III)/ZrO<sub>2</sub> semiconductors prepared by a sol-gel technique", S. Botta, J.A. Navío, M.C. Hidalgo, G.M. Restrepo, M.I. Litter, *J. Photochem. Photobiol. A: Chem.* 129 (1999) 89–99. doi:10.1016/S1010-6030(99)00150-1, <http://www.sciencedirect.com/science/article/pii/S1010603099001501>.
28. "Preparation and physicochemical properties of ZrO<sub>2</sub> and Fe/ZrO<sub>2</sub> prepared by a sol-gel technique", J.A. Navío, M.C. Hidalgo, G. Colón, S.G. Botta, M.I. Litter, *Langmuir* 17 (2001) 202–210. doi: 10.1021/la000897d, <http://pubs.acs.org/doi/abs/10.1021/la000897d>.

29. "Kinetics and mechanisms of EDTA photocatalytic degradation with TiO<sub>2</sub>", P.A. Babay, C.A. Emilio, R.E. Ferreyra, E.A. Gautier, R.T. Gettar, M.I. Litter, *Water Sci. Technol.* 44 (2001) 179–185. doi: 10.1016/S0045-6535(00)00512-9, <http://europemc.org/abstract/med/11695457>.
30. "Experimental evidence in favor of an initial one-electron transfer process in the heterogeneous photocatalytic reduction of chromium (VI) over TiO<sub>2</sub>", J.J. Testa, M.A. Grela, M.I. Litter, *Langmuir* 17 (2001) 3515–3517. doi: 10.1021/la010100y, <http://pubs.acs.org/doi/abs/10.1021/la010100y>.
31. "Kinetics and mechanisms of EDTA photocatalytic degradation with TiO<sub>2</sub> under different experimental conditions", P.A. Babay, C.A. Emilio, R.E. Ferreyra, E.A. Gautier, R.T. Gettar, M.I. Litter, *Int. J. Photoenergy* 3 (2001) 193–199. doi.org/10.1155/S1110662X01000253, <http://www.hindawi.com/journals/ijp/2001/962592/abs/>.
32. "Semiempirical Modeling for the Photocatalytic Reaction of EDTA over TiO<sub>2</sub> applying Artificial Neural Networks", C.A. Emilio, M.I. Litter, J.F. Magallanes, *Helvetica Chimica Acta* 84 (2001) 799–813. Invitation. doi: 10.1002/1522-2675(200203)85:3<799::AID-HLCA799>3.0.CO;2-J, [http://onlinelibrary.wiley.com/doi/10.1002/1522-2675\(200203\)85:3%3C799::AID-HLCA799%3E3.0.CO;2-J/epdf](http://onlinelibrary.wiley.com/doi/10.1002/1522-2675(200203)85:3%3C799::AID-HLCA799%3E3.0.CO;2-J/epdf).
33. "Enhancement of the Photocatalytic Activity of various TiO<sub>2</sub> Materials by Platinisation", D. Hufschmidt, D. Bahnemann, J.J. Testa, C.A. Emilio, M.I. Litter, *J. Photochem. Photobiol. A: Chem.* 148 (2002) 223–231. doi:10.1016/S1010-6030(02)00048-5 <http://www.sciencedirect.com/science/article/pii/S1010603002000485>.
34. "Photodegradation of an azo dye from the textile industry", R. López Cisneros, A. Gutarra Espinoza, M.I. Litter, *Chemosphere* 48 (2002) 393–399. doi:10.1016/S0045-6535(02)00117-0, <http://www.sciencedirect.com/science/article/pii/S0045653502001170>.
35. "Heterogeneous photocatalytic reactions with TiO<sub>2</sub> and Pt/ TiO<sub>2</sub>", U. Siemon, D. Bahnemann, J.J. Testa, D. Rodríguez, N. Bruno, M.I. Litter, *J. Photochem. Photobiol. A: Chem.* 148 (2002) 247–255. doi:10.1016/S1010-6030(02)00050-3. <http://www.sciencedirect.com/science/article/pii/S1010603002000503>.
36. "EDTA destruction using the solar ferrioxalate AOT. Comparison with solar photo-Fenton", C.A. Emilio, W.F. Jardim, M.I. Litter, H.D. Mansilla, *J. Photochem. Photobiol. A: Chem.* 151 (2002) 121–127. doi:10.1016/S1010-6030(02)00173-9, <http://www.sciencedirect.com/science/article/pii/S1010603002001739>.
37. "Features of the transformation of HgII by heterogeneous photocatalysis over TiO<sub>2</sub>", S.G. Botta, D.J. Rodríguez, A.G. Leyva, M.I. Litter, *Catal. Today* 76 (2002) 247–258. doi:10.1016/S0920-5861(02)00223-7, <http://www.sciencedirect.com/science/article/pii/S0920586102002237>.
38. "Removal of EDTA by UV-C/hydrogen peroxide", C. Baeza, A. Rossner, W.F. Jardim, M.I. Litter, H.D. Mansilla, *Environ. Technol.* 24 (2003) 1277–1281. doi: 10.1080/09593330309385670, <http://www.tandfonline.com/doi/abs/10.1080/09593330309385670>.
39. "Photocatalytic bactericidal effect of TiO<sub>2</sub> on Enterobacter cloacae. Comparative study with other Gram (-) bacteria", J.A. Ibáñez, M.I. Litter, R.A. Pizarro, *J. Photochem. Photobiol. A: Chem.* 157 (2003) 81–85. doi:10.1016/S1010-6030(03)00074-1, <http://www.sciencedirect.com/science/article/pii/S1010603003000741>.
40. "Tratamiento de residuos convencionales y radiactivos de baja actividad por tecnologías avanzadas de oxidación", (Treatment of conventional and radioactive wastes of low activity by advanced oxidation technologies), M.A. Blesa, M. Chocrón, M.I. Litter, R. Gettar, P. Babay, M. Paoletta, P. Repetto, N. Quici, G. Piperata, *Revista de la Comisión Nacional de Energía Atómica*, year III (9/10) 11–16 (2003). doi not reported.
41. "Degradation of 4-chlorophenol mediated by Fe(III)-NTA in homogeneous and heterogeneous systems", O. Abida, C. Emilio, N. Quici, R. Gettar, M. Litter, G. Mailhot, M. Bolte, *Water Sci. Technol.* 49 (2004) 123–128. doi: not reported, <http://wst.iwaponline.com/content/49/4/123>.
42. "Features and efficiency of some platinized TiO<sub>2</sub> photocatalysts", C.A. Emilio, J.J. Testa, D. Hufschmidt, G. Colón, J.A. Navío, D.W. Bahnemann, M.I. Litter, *J. Ind. Eng. Chem.* 10 (2004) 129–138. doi not reported, <http://www.cheric.org/research/tech/periodicals/view.php?seq=441268>
43. "Heterogeneous Photocatalytic Reduction of Chromium (VI) over TiO<sub>2</sub> Particles in the Presence of Oxalate. Involvement of Cr(V) species", J.J. Testa, M. A. Grela, M.I. Litter, *Environ. Sci. Technol.* 38 (2004) 1589–1594. doi: 10.1021/es0346532, <http://pubs.acs.org/doi/abs/10.1021/es0346532>.
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- ◆ “Tecnologías avanzadas de oxidación y uso de nanopartículas de hierro cerovalente para el tratamiento de metales y metaloides tóxicos en agua. Caso del arsénico” (Advanced Oxidation Technologies and use of zerovalent iron nanoparticles for the treatment of toxic metals and metalloids in water. Case of arsenic), Panel “Encuentro con Científicos”, 18<sup>o</sup> Congreso Argentino de Saneamiento y Medio Ambiente AIDIS, Buenos Aires, 18-20 April 2012.
- ◆ “Reduction of Pentavalent and Trivalent Arsenic by  $\text{TiO}_2$ -Photocatalysis”, M.I. Litter, I.K. Levy, F. Requejo, G. Zampieri, M. Mizrahi, G. Ruano, invited conference, 7th European Meeting on Solar Chemistry and Photocatalysis - Environmental Applications /SPEA7 – SPQ, Porto, Portugal, 17-20 June 2012. Presenter: M.I. Litter.
- ◆ “Emerging options for solving the arsenic problems of rural and periurban areas in Latin America”, M.I. Litter, J. Bundschuh, 4th. International Congress on Arsenic in the Environment (As2012), Cairns, Australia, 22-27 July 2012. Key Conference (Presenter: M.I. Litter).
- ◆ “Photocatalytic reactions of Cr(VI) reduction”, Laboratory Dr. Christophe Colbeau-Justin, Université Paris-Sud 11 (Orsay), 20 October 2012.
- ◆ “Photocatalytic reactions of Cr(VI) reduction”, Laboratory Dr. Gilles Mailhot, Université Blaise Pascal, Clermont-Ferrand, 14 October 2012.
- ◆ “Photocatalytic treatment of Cr(VI) by Heterogeneous Photocatalysis with  $\text{TiO}_2$ ”, plenary conference, 2013 International Symposium on Environmental Science and Technology (2013 ISEST), Dalian, Liaoning Province, China, 4–7 June 2013.
- ◆ “El arsénico en América Latina y el Caribe” (Arsenic in Latin America and the Caribbean), 3rd. ALOAS 2013, Buenos Aires, 16-18 June 2013.
- ◆ “El arsénico, estudios de caso, repercusiones y principales formas de tratamiento” (Arsenic, case studies, implications and main treatments), Coloquio sobre experiencia en arsénico UEN I+D AyA e HIDROCEC-UNA, 28 August, 2013, San José de Costa Rica.
- ◆ “El arsénico, estudios de caso, repercusiones y principales formas de tratamiento” (Arsenic, case studies, implications and main treatments). Forum “Situación y avances en la atención de la declaratoria de emergencia sobre la presencia de arsénico en agua potable”, 29 August 2013, Sede Regional Chorotega, Campus Liberia, Guanacaste, Costa Rica, Magistral Conference.
- ◆ “El arsénico en América Latina y el Caribe. Algunas consideraciones de uso agrícola” (Arsenic in Latin America and the Caribbean. Some considerations on agricultural uses), II Encuentro de Humedales: Biodiversidad y Sociedad, Nicoya, Guanacaste, Costa Rica, 29 August 2013.
- ◆ “Photocatalytic treatment of Cr(VI) by Heterogeneous Photocatalysis with  $\text{TiO}_2$ ”, 12 September 2013, Laboratory Prof. Bahnemann, University of Hannover, Hannover, Germany.
- ◆ “ $\text{TiO}_2$ -photocatalytic reduction of pentavalent and trivalent arsenic: production of elemental arsenic and arsine”, 16 September 2013, Laboratories Dr. Christophe Colbeau-Justin, Université Paris-Sud 11, Orsay, France.
- ◆ “Estudios sobre arsénico y contaminación ambiental” (Arsenic and environmental pollution studies), Simposio de Disruptores Endocrinos, IX Congreso Argentino de Endocrinología Ginecológica y Reproductiva, Buenos Aires, 28 April 2014.
- ◆ “5<sup>o</sup>. Congreso Internacional de Arsénico en el Ambiente” (5th. International Congress on Arsenic in the Environment), conference, 19<sup>o</sup> Congreso Argentino de Saneamiento y Medio Ambiente, Buenos Aires, 21-23 May 2014.
- ◆ “Mechanisms of removal of heavy metals and arsenic from water by  $\text{TiO}_2$ -heterogeneous photocatalysis”, plenary conference, XXVth IUPAC Symposium on Photochemistry, Bordeaux, France, 13 – 18 July 2014.
- ◆ “Generalidades sobre la problemática del arsénico en América Latina y Argentina. Alternativas para su abatimiento en agua de consumo humano” (Generalities on the arsenic problema in Latin America and Argentina. Alternatives for the abatement in water for human consumption), Conference, Seminario de Especialistas sobre la Situación

Hídrica en la Región Latinoamericana, Argentine Chapter of the Roma Club y el Movimiento Agua y Juventud, Buenos Aires, 22 September 2014.

- ◆ “Generalidades sobre la problemática del Hidroarsenicismo Crónico Regional Endémico en Argentina” (Generalities on the problema of HACRE in Argentina), Panelist, Round Table on Hidroarsenicismo Crónico Endémico (HACRE) y Medios de Difusión, organized by Sociedad Argentina de Periodismo Médico, Asociación Médica Argentina, Buenos Aires, 1 October 2014.
- ◆ “Mecanismos de remoción de metales pesados y arsénico en agua por fotocatalisis heterogénea con  $\text{TiO}_2$ ”, (Mechanisms of removal of heavy metals and arsenic in water by heterogeneous photocatalysis with  $\text{TiO}_2$ , Instituto de Investigación e Ingeniería Ambiental (3iA), UNSAM, San Martín, Prov. de Buenos Aires, Conferences 2014, 14 November 2014.
- ◆ “Actividades de la División Química de la Remediación de Contaminantes” (Activities of the Chemistry Division of Remediation of Pollutants), Programa de Gestión Ambiental de CNEA, Bariloche, 27-28 November 2014.
- ◆ “Generalidades sobre la problemática del arsénico en América Latina y Argentina. Alternativas para su abatimiento en agua de consumo humano”, Seminario Yacu Tuckuyupaj (Agua Para Todos), Secretaría de Agricultura Familiar, Santiago del Estero, Argentina - 24 April 2015.
- ◆ “Situación del arsénico en aguas de consumo humano en Iberoamérica. Posibilidades de tratamiento” (Situation of arsenic in waters for human consumption. Possibilities of treatment), VI Seminario Internacional La Sostenibilidad un punto de Encuentro, Medellín, Colombia, 16 April 2015.
- ◆ “Empleo de la fotocatalisis heterogénea en el tratamiento de metales y metaloides en agua” (Use of heterogeneous photocatalysis on the treatment of metals and metalloids in water), VI Seminario Internacional La Sostenibilidad un punto de Encuentro Medellín, Colombia, 17 April 2015.
- ◆ “Mechanisms of removal of heavy metals and arsenic from water by  $\text{TiO}_2$ -heterogeneous photocatalysis”, plenary conference, SP5 (5th International Conference on Semiconductor Photochemistry), 27-31 July 2015, San Petersburg, Russia.
- ◆ “Activities of the Division of Chemistry of the Environmental Remediation”, conference in Nanoiron and, Olomuc and Liberec Universities (Czech Republic), 3-7 August 2015.
- ◆ “Activities of the Division of Chemistry of the Environmental Remediation”, conference laboratories Dr. Tom Scott, Interface Analysis Centre, Bristol University, UK, 10 August 2015.
- ◆ “Mechanisms of removal of heavy metals and arsenic from water by  $\text{TiO}_2$ -heterogeneous photocatalysis”, Fourth Latin-American Congress of Photocatalysis, Photoelectrochemistry and Photobiology - LACP3 2016, Universidad Industrial de Santander, Piedecuesta (Bucaramanga), Santander, Colombia, 25-30 April 2016.
- ◆ “ $\text{TiO}_2$ -photocatalytic transformation of Cr(VI) in the presence of EDTA: Comparison of different commercial photocatalysts and studies by Time Resolved Microwave Conductivity”, Fourth Latin-American Congress of Photocatalysis, Photoelectrochemistry and Photobiology - LACP3 2016, Universidad Industrial de Santander, Piedecuesta (Bucaramanga), Santander, Colombia, 25-30 April 2016.
- ◆ “Studies on the photocatalytic transformation of Hg(II) species by  $\text{TiO}_2$ -photocatalysis”, conference Universidad Industrial de Santander – UIS. 25 April 2016.
- ◆ “New Insights on the heterogeneous photocatalytic removal of U(VI) in the presence of formic acid. Evidence of U(III) formation”, M.I. Litter, V. Salomone, J.M. Meichtry, invited conference, 9th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA9), Strasbourg, France, June 13 – 17, 2016. Presenter: Marta Litter.
- ◆ “Evaluation of safe drinking water access for dispersed rural populations in the Santiago del Estero province, Argentina – A challenge for arsenic removal”, M.I. Litter, S. Pereyra, invited conference, 6th International Congress on Arsenic in the Environment (As2016), 19-23 June 2016, Stockholm, Sweden.
- ◆ “Evaluación del acceso a agua potable segura en poblaciones rurales dispersas de Argentina – Un desafío para la remoción de arsénico en la provincia de Santiago del Estero”, M.I. Litter, S. Pereyra, Workshop “Distribución, determinación y remoción de arsénico en aguas”, 11-12 August 2016, UTN Buenos Aires, Campus Buenos Aires, Argentina.
- ◆ “Nanopartículas de hierro para la remediación de sitios afectados por la minería” (Iron nanoparticles for remediation of sites affected by mining), Workshop Tecnologías Innovadoras para la Remediación de Sitios Mineros, University of San Luis, May 2017.
- ◆ “Mechanisms of removal of heavy metals and arsenic from water by  $\text{TiO}_2$ -heterogeneous photocatalysis”, LACP3 2017, 5th Latin-American Congress of Photocatalysis, Photoelectrochemistry and Photobiology, Guanajuato, México, September 2017.
- ◆ “Fotocatálisis reductiva de arsénico” (Reductive photocatalysis of arsenic), October 2017, Instituto de Ingeniería, UNAM, México, DF.

- ◆ “Nanopartículas de hierro para la remediación de sitios contaminados” (Iron nanoparticles for remediation of contaminated sites), 6 October 2017, Instituto de Ingeniería, UNAM, México, DF.
- ◆ “Grupo Ad-Hoc Arsénico en agua de la Red de Seguridad Alimentaria de CONICET” (Ad-hoc group Arsenic in Water, Food Safety Network of CONICET), 21 March 2018, CONAL, Buenos Aires.
- ◆ “La problemática del arsénico en América Latina” (The problem of Arsenic in Latin America), Seminarios de la Gerencia Investigación y Aplicaciones – CNEA, 24 May 2018.
- ◆ “Use of iron nanomaterials for arsenic removal”, plenary lecture As2018, Beijing, China, July 2018.
- ◆ “Grupo Ad-Hoc Arsénico en agua de la Red de Seguridad Alimentaria de CONICET” (Ad-hoc group Arsenic in Water, Food Safety Network of CONICET), Workshop Arsenic in Water, Buenos Aires, 27 August 2018.
- ◆ “Métodos económicos de remoción de As para localidades aisladas” (Low-cost methods for arsenic removal in isolated localities), Workshop Arsenic in Water, Buenos Aires, 27 August 2018.
- ◆ Participación en la Mesa redonda: Conclusiones y Recomendaciones (Round Table: conclusions and recommendations). Workshop Arsenic in Water, Buenos Aires, 27 August 2018.
- ◆ “Remoción de arsénico por nanomateriales de hierro”. Symposium in honor of Dr. Esther Oliveros for her 70 birthday, 16 November 2018, CCT-La Plata.
- ◆ “El arsénico en Iberoamérica. Distribución, metodologías analíticas y tecnologías económicas de remoción” y “Grupo ad-hoc “Arsénico en agua” de la Red de Seguridad Alimentaria de CONICET, seminary for the training of health professionals from Costa Rica, MINSAL (Health Ministry) project FO-AR. 12 November 2018, Buenos Aires.
- ◆ “Treatment of heavy metals and arsenic by advanced oxidation/reduction technologies: heterogeneous photocatalysis, use of iron-based nanoparticles and ultrasound”, Strategic partnership Seminar UNSAM-KIT (SPUK), November 20-22, 2018, Buenos Aires.
- ◆ “Metales en agua: importancia y remediación” (Metals in water: importance and remediation), Seminario Permanente de Investigación del Doctorado en Ciencia y Tecnología, Mención Química, 15 May 2019, 3IA, Campus Miguelete, Buenos Aires.
- ◆ “Current state of the art on green synthesis of iron-based nanoparticles. Case study: iron nanoparticles from Argentine yerba mate and green tea extracts useful for removal of pollutants in soil and water”, Key Conference, 10th World Congress on Green Chemistry and Technology, Paris, 10-11 July de 2019.
- ◆ “Emerging options for solving the arsenic problems of rural and periurban areas in Latin America”, Key conference, 10th World Congress on Green Chemistry and Technology, Paris, 10-11 July de 2019.
- ◆ “Arsenic in Latin America”, Global Arsenic Research, Faculty of Civil Engineering and Geosciences, 16 July de 2019, Faculty of Civil Engineering and Geosciences, University of Delft, Holland.
- ◆ “El problema del arsénico en América Latina”, conference in BioMed, UCA-CONICET, 10 September 2019, Buenos Aires.
- ◆ “Dispositivos de escala pequeña para remoción de arsénico y casos en Argentina” (Small scale setup for arsenic removal and cases in Argentina. Workshop and brief course: Contaminación natural de arsénico en la Llanura Pampeana: ocurrencia natural y situación de los sistemas públicos de suministro de agua de la provincia de Buenos Aires, 4-8 November 2019. Instituto de Hidrología de Llanuras "Dr. Eduardo Usunoff", Azul, Prov. de Buenos Aires.
- ◆ “El problema del arsénico en América Latina”, for the Master in Environmental Sciences, Universidad Nacional de Misiones, 20 September 2019, Posadas, prov. de Misiones.
- ◆ “El problema del arsénico en América Latina”, conference in Universidad Nacional de Rafaela, 2 October 2019, Rafaela, prov. de Santa Fe.
- ◆ “El problema del arsénico en América Latina”, conference Rafaela, 3 October 2019, Rafaela, prov. de Santa Fe.
- ◆ “Metales y arsénico en agua: importancia, efectos sobre la salud y remediación” (Metals and arsenic in water: importance, effects on health and remediation), Semiplenary Conference semiplenaria, IV Congreso Nacional de Ciencia y Tecnología Ambiental (AA2019), 2-5 December 2019, Universidad Nacional Arturo Jauretche, Florencio Varela, Pcia. de Buenos Aires.
- ◆ “Presencia de arsénico en aguas de Argentina” (Presence of arsenic in waters from Argentina), Mini Coloquio "Arsénico en el sistema TDPS", 12 August 2020, La Paz, Bolivia.
- ◆ “Mechanisms of removal of heavy metals and arsenic from water by TiO<sub>2</sub>-heterogeneous photocatalysis”, conference clave en el Webinar on Catalysis and Chemical Science, Advanced Research and Techniques on Catalysis and Chemical Science, 29 August 2020.
- ◆ “Small scale setups for arsenic treatment. Examples in Argentina”, As2021, Wageningen, Holland, June 2021. Key Conference.
- ◆ “Synthesis, characterization of nanoparticles prepared from yerba mate extracts. Use for Cr(VI) removal”, Keynote Speaker for the webinar “2nd Edition Nanotechnology and Nanomaterials Virtual”, 16-17 July 2021.

- ◆ “Removal of heavy metals and arsenic from water by TiO<sub>2</sub>-heterogeneous photocatalysis”, plenary conference, to be presented in the 7th Latin-American Congress of Photocatalysis, Photochemistry and Photobiology – 7th LACP3 2021, 26-28 October 2021, Mexico, virtual.
- ◆ “Mechanisms of removal of heavy metals and arsenic from water by TiO<sub>2</sub>-heterogeneous photocatalysis”, The 7th International Conference on Water Resource and Environment (WRE 2021), to be presented, November 1-4, 2021, Xi’an, China.
- ◆ “Arsénico en Aguas: Problemática en Argentina”, Cátedra Libre DERECHO A LA SALUD PÚBLICA, Grupo Refundar, Facultad de Ciencias Bioquímicas y Farmacéuticas, Universidad Nacional de Rosario, 8 de noviembre de 2021, virtual.
- ◆ “Photocatalytic removal of metals and metalloids. Cases of chromium and arsenic”, Webinars 2021-2022 International PhD School on Advanced Oxidation Processes (IPS-AOP), M.I. Litter and M. Meichtry, 30 May 2022, virtual.
- ◆ “Use of iron nanomaterials for the treatment of emergent contaminants in water”, M.I. Litter, 2nd International Conference on Emerging Contaminants In Water And Environment (ECWE - 2023), Coimbatore, India, 21 and 22 February 2023.
- ◆ “La calidad y contaminación del agua, su rol como derecho humano, enfermedades hídricas y el problema del arsénico”, Panelist in Round Table, Water International Day, EHYS, UNSAM, San Martín, 22 March 2023.
- ◆ “TiO<sub>2</sub> photocatalytic removal of hexavalent chromium and arsenic”, M.I. Litter, J.M. Meichtry, International Conference on Catalysis, Chemical Engineering and Technology (CCT23), 22-23 May 2023, Tokyo, Japan (virtual, Marta Litter).

#### Human resources formation. Direction of Thesis

##### a) Undergraduate Thesis

1. Y. Sindoni, C. Bruzual, "Bromination of Unsaturated Polyester Resins I", Metropolitan University, Caracas, Venezuela, 1977.
2. Y. Rojas, M. Santoalla, "Preparation of Polyester Resins from Brominated Monomers", Metropolitan University, Caracas, Venezuela, 1978.
3. V. Antón, M. Devesa, "Bromination of Unsaturated Polyester Resins II", Metropolitan University, Caracas, Venezuela, 1978.
4. C. Alzamora, G. Buso, O. De Lima, "Synthesis of Unsaturated Polyester Resins using Brominated Diols", Metropolitan University, Caracas, Venezuela, 1979.
5. C. Marciano, N. Álvarez, "Bromination of Unsaturated Polyester Resins III, Metropolitan University, Caracas, Venezuela, 1979.
6. M. Andara, J. Benlolo, L. Rincón, "Preparation of Alkyd Resins from Sucrose and Vegetable Oils ", Metropolitan University, Caracas, Venezuela, 1979.
7. F. Camacho, "Addition of Bromine to Polyester Resins. Comparison of Properties between a General Use Resin and its Brominated Derivatives", Universidad Central de Venezuela, Caracas, Venezuela, 1980.
8. J. Rendón, "Synthesis and Characterization of Phthalocyanines of Mo and Cr", Autonomous Metropolitan University, Mexico, 1984.
9. R. Rodríguez, "Synthesis and Characterization of Phthalocyanines of Rh and Pd", Autonomous Metropolitan University, Mexico, 1983.
10. L.C. Navntoft, H.-J. Lin, “Design, construction and testing of a fixed bed prototype to treat liquid effluents at low concentration by heterogeneous photocatalysis”, Universidad de Flores, Buenos Aires, 2003.
11. L.M. de la Fuente, “Validation of supports with immobilized TiO<sub>2</sub> for simple and low-cost decontamination by Heterogeneous Photocatalysis”, Buenos Aires, 2007.
12. T. Acosta, Elimination of ethoxylated nonylphenol in water by AOT-biological methods”, UNSAM, Buenos Aires, 2007.
13. P. Fiol, “Elimination of benzalkonium chloride in water by AOT-biological methods”, UNSAM, Buenos Aires, 2008.
14. V. Rivera, “Reduction of Cr(VI) with TiO<sub>2</sub> sensitized by dyes”, UNSAM, Buenos Aires, 2009.

##### b) Postgraduate and Master Thesis

15. J. Padilla, "Synthesis and Characterization of Phthalocyanines of Ru and W", Master Thesis, Autonomous Metropolitan University, Mexico, 1984. Outstanding.
16. S. Botta, “Photocatalytic properties of ZrO<sub>2</sub> and ZrO<sub>2</sub> doped with iron prepared by a sol-gel technique”, Master Thesis, Prof. Jorge A. Sabato Institute of Technology, UNSAM, Buenos Aires, 1998. Outstanding. Sabato Institute in Materials 2004 Prize.



17. L.M. Paoella "Treatment of liquid residues of decontamination of nuclear power plants by heterogeneous photocatalysis", Final thesis of the Technological Applications of Nuclear Energy Career, CNEA-National University of Cuyo (Balseiro Institute) and UBA (Engineering Faculty, FIUBA), 2000. Outstanding.
18. M.E. Morgada, "Treatment of liquid residues of decontamination of nuclear power plants by heterogeneous photocatalysis", Final thesis of the Technological Applications of Nuclear Energy Career, CNEA, National University of Cuyo (Balseiro Institute) and FIUBA, 2002. Outstanding.
19. M. Mateu, "Removal of arsenic by heterogeneous photocatalysis", Master Thesis, FCEN-UBA, 2007. Outstanding.
20. M.L. Vera, "Preparation of photocatalysis of supported TiO<sub>2</sub> for use in water potabilization", Master Thesis, Prof. Jorge A. Sabato Institute of Technology, UNSAM. 2008. Outstanding. First mention Sabato Institute 2010 Prize.
21. A.A. Pastinante "U(VI) removal from aqueous solutions by nanoparticulated zerovalent iron materials", Final thesis of the Technological Applications of Nuclear Energy Career, CNEA, National University of Cuyo (Balseiro Institute) and FIUBA, 2011. Outstanding.
22. J. Crespi, "Synthesis, characterization and evaluation of the reactivity of nanoparticulated zerovalent iron and iron oxides for the treatment of hexavalent uranium in water", Master Thesis, Prof. Jorge A. Sabato Institute of Technology, UNSAM. 2016. Outstanding. Honor mention.
23. I.D. Rychluk, 2018. Nanoparticles based on Zerovalent iron and iron oxides for uranyl nitrate removal from water basadas en hierro cerivalente y óxidos de hierro para la remoción de nitrato de uranilo en agua. Master Thesis, Prof. Jorge A. Sabato Institute of Technology, UNSAM.

### c) Ph.D. Thesis

24. C.A. Emilio, "Elimination of carboxylic acids by Heterogeneous Photocatalysis and other Advanced Oxidation Technology", FCEN, UBA. 2006. Outstanding.
25. N. Quici, "Degradation of phenolic and polycarboxylic model compounds by Advanced Oxidation Processes", FIUBA. 2009. Outstanding.
26. J.M. Meichtry, "Treatment of Cr(VI) by TiO<sub>2</sub> Heterogeneous Photocatalysis", FIUBA. 2011. Outstanding "Summa Cum Laude".
27. J.J. Testa, "Reactions of oxidation and reduction of inorganic compounds by heterogeneous photocatalysis with TiO<sub>2</sub> and Fe/TiO<sub>2</sub>", FCEN, UBA. 2012. Outstanding.
28. D. Rodríguez, "Elimination of mercury and arsenic by advanced oxidation technologies", UNSAM, ongoing.
29. E. de la Fournière, "Elimination of organomercurial compounds by advanced oxidation technology", UNSAM. 2013.
30. I.K. Levy, "Elimination of arsenic advanced oxidation technologies", FCEN, UBA. 2013. Outstanding.
31. V. Salomone, "Elimination of uranium by advanced oxidation technologies", FCEN, UBA. 2014. Outstanding.
32. V.N. Montesinos "Kinetic and mechanistic studies of photochemical processes for the treatment of pollutants in aqueous solutions. Synergy between reductants and oxidants", FCEN, UBA. 2015.
33. H.D. Traid "Synthesis of porous and nanotubular coatings of anodic TiO<sub>2</sub> applied to heterogeneous photocatalysis", Universidad Nacional de Misiones, 2018.
34. "Treatment of arsenic in aqueous solutions by nanoparticles of zerovalent iron". C. Pabón Reyes, 2022. Universidad Nacional de Gral. San Martín.
35. "Synthesis, characterization and evaluation of the efficiency of iron based nanoparticles useful for remediation of contaminated sites". Fabiana Elena García, since 2017, Universidad Nacional de Gral. San Martín.
36. "Synthesis and characterization of modified TiO<sub>2</sub> for water treatment" Anabela Dwojak, since 2017, Instituto de Materiales de Misiones (IMAM) (CONICET - UNAM). (Codirector).
37. "Formation of hydrogels assisted by accelerated electrons and X rays with TiO<sub>2</sub> nanoparticles for removal of dyes". Gloria Maribel Luna, Universidad Nacional de Gral. San Martín. Codirector. Presented.

### Grants

1. S1-0871 Grant, Project "Preparation of Halogenated Polyester Resins, Consejo Nacional de Investigaciones Científicas y Tecnológicas, Venezuela. 1978-1980. Leader of Project.
2. Autonomous Metropolitan University Grant, Project "Brominated Polyester Resins", México, 1983. Leader of Project.
3. PID CONICET 3910704 Grant, Project "Reactivity of complex ions in solid and solution phase", 1985-1988.
4. CONICET 7-17416/88 Grant, for the financing of the Meeting of Photochemical Technology, INIFTA, La Plata, 1989.
5. Ministry of Education and Technique of Spain Grant, Cooperation with Iberoamerica Programme. Project: "Synthesis and photochemical and photophysical characterization of insoluble polymeric matrices containing organic and inorganic dyes. Tests as photosensitizers in processes of energy and charge transfer", collaboration with FCEN, UBA and the University Autonomous of Barcelona (1992-95).
6. UBA Grant, Project: Photochemistry of macrocyclic dyes, 1995-97.

7. Scientific and Technological Cooperation with the Developing Countries, The Framework Programme IV Grant, Project: "Development of Environmentally Friendly Photoactivable Compounds for Treatment of Microbially Polluted Waters", 1996-99.
8. CSIC/CONICET, 811 Grant. Project: "Processing, characterization and properties of composites based on mixed Ti(IV)/Fe(III) oxides with potential application as materials in non structural uses (photocatalysts)", with Prof. Antonio Navío, University of Seville, Spain, 1995-1996.
9. Deutsche Bundesstiftung Umwelt-DBU grant to participate in the International Conference-Oxidation Technologies for Water and Wastewater Treatment, Goslar, Germany, 1996.
10. Antorchas Foundation grant, visit to Spain, 1996.
11. JSPS-CONICET, visit to the Environmental Science and Technology Institute (IEST), Yokohama, Japan, 1998.
12. PIA No. 6093/98 Grant, Project "Photocatalysis with semiconductors of mixed oxides and sensitized with dyes". 1998. Leader of Project.
13. BMBF/SECYT (MAT5/98/OG and AL/A98-EXIV/12) Grant. Project: "Photocatalytic studies of oxidation and reduction with semiconducting oxides. Improvement of the photocatalytic activity", Argentine-German Scientific and Technologic Cooperation with Dr. Detlef Bahnemann, Institute of Solar Energy (ISFH, Hannover). 1999-2002.
14. CYTED VIII.G Thematic Network: "Iberoamerican Network of semiconductor oxides and related materials in environmental and optic applications", 1999-2001.
15. Balseiro Foundation Grant, Project "Elimination of Hg(II) by heterogeneous photocatalysis with TiO<sub>2</sub>", 1998. Leader of Project.
16. ANPCYT PICT 13-00000-01833 Grant, Project: "Dynamic of pollutants and Photocatalytic Technologies of Detoxification", 1998-2000.
17. PICT98, 13-03672 Grant, Project "Elimination of environmentally important oligocarboxylic acids and metallic species by Heterogeneous Photocatalysis", National Agency for Promotion of Science and Technology (Agencia Nacional de Promoción Científica y Tecnológica, ANPCYT), 1999-2001. Leader of Project.
18. PIP CONICET No. 662/98 Grant, Project "Kinetic and mechanistic studies of organic and inorganic species by heterogeneous photocatalysis with different semiconductors", 1999-2002. Leader of Project.
19. Antorchas Foundation A-13668/1-7 Grant, Project "Mechanisms of important photocatalyzed reactions in water decontamination. Comparison of advanced oxidation technologies" in collaboration with Chile (Dr. H. Mansilla) and Brazil (Dr. W. Jardim). 1999-2000. Argentine Leader of Project.
20. CAC- Balseiro Foundation Grant, Project: "Design and construction of prototypes for treatment of water and air, 2001-2002. Leader of Project.
21. INCO "Solwater", ICA4-CT-2002-10001 Grant, European Union, 2002-2005.
22. Balseiro Foundation Grant, for the organization of the Meeting on Use and Results of the application of low-cost technologies for water purification in Latin America, Buenos Aires, Argentina, 2004.
23. Organization of the American States AE 141/2001 Grant, Project "Low-cost technologies for disinfection and decontamination of waters in rural zones of Latin America", 2002-2006. **International Coordinator.**
24. UNSAM 2005 Grant. Project: "Treatment of liquid effluents of SyMIs using advanced oxidation technologies". 2005-2006.
25. CONICET/CNRS Grant. Project: "Homogeneous and heterogeneous photocatalytic degradation of pollutants in the presence of iron (III) complexes), with Dr. Michèle Bolte, Blas Pascal University, Clermont Ferrand (France), together with Dr. Enrique San Román (INQUIMAE, FCEN, UBA) and Dr. Alejandra Grela (UNMDP). Leader of Project. 2005-2006.
26. RC 2006-1412, ANPCYT Grant for the Workshop on "Arsenic distribution in Iberoamerica", 2006.
27. Scientific Research Commission (Comisión de Investigaciones Científicas), Government of the Buenos Aires Province Grant, Project: "Treatment of waste and industrial waters containing surfactants and dyes by combined Advanced Photochemical Oxidation and Biological Processes, 2004-2005. Leader of Project.
28. ANPCYT PICT03, 13-13261 Grant, Project: "Treatment of chromium, mercury and lead in waste waters by advanced oxidation technologies". 2005-2007. Leader of Project.
29. ANPCYT PME-2006-00554 Grant. Project: "Strengthening of Capacities of Environmental Analysis". 2006.
30. PIP-CONICET 5472 Grant. Project: "Modification of semiconductors and inert matrices with dyes for use as photocatalysts or photosensitizers in environmental process", 2006-2007.
31. CYTED Thematic Network Grant 406RT0282, Project: "Arsenic in Iberoamerica. Distribution, analytical methodologies and removal technologies" (IBEROARSEN), 2006-2009. **International Coordinator.**
32. Scientific Research Commission (Comisión de Investigaciones Científicas), Government of the Buenos Aires Province Grant, Project: "Treatment of waste and industrial waters containing surfactants and dyes by combined Advanced Photochemical Oxidation and Biological Processes, 2006-2007. Leader of Project.
33. PICT-06 512 ANPCYT Grant, Project "Removal of arsenic, lead and uranium by photochemical technologies". 2006-2009. Leader of the Project.

34. Sweden Agency Grant for the International Development-ASDI-SAREC. Project: "Semiconducting oxides for environmental remediation of arsenic and cyanide in aqueous media for irrigation or human consumption in different regions of Bolivia". 2007.
35. ANPCYT PAE2004-22257 Grant. Project: "Systems of treatment of liquid effluents by advanced oxidation technologies combined with biological treatments. 2007-2009.
36. BMBF/MINCYT ARG 07/005 Grant. Project: "Treatment of arsenic by advanced oxidation technologies". Argentine-German Scientific and Technologic Cooperation with Dr. Detlef Bahnemann, University of Hannover. 2008-2010.
37. PIP-CONICET 319 Grant. Project: "Photophysical and photochemical studies on photocatalysts and photosensitizers of environmental interest", 2009-2011.
38. Balseiro Foundation Grant, Project " Effect of the UV light in chromium, uranium, arsenic, mercury and nitrate removal by iron nanoparticulate materials". 2011. Leader of the Project.
39. D04B - XAFS1-11792 National Synchrotron Lab. Grant, LNLS. Project: XAS of FeAs and TiO<sub>2</sub>As photocatalysts. 2011.
40. PICT-0463-2011, "Coupling of Advanced Reductive Processes in Aqueous Phase and Advanced Oxidation Processes in Gas Phase for the Treatment of Model Pollutants in Water. 2012-2016.
41. Access, uses and water quality: economy and politics of water in rural populations of Santiago del Estero, Argentina. UNSAM. 2013-2014.
42. FITS 2013 Project No. 0001 "Nanotechnology for remediation of contaminated sites", approved, 6/11/2014, ANPCyT 572/14. Leader of the project.
43. PICT-015-0208, "Treatment of especial pollutants in water by iron-based nanoparticles and their combination with sonolysis (solid sonoFenton). 2016-2019.
44. PID UTN MSUTIBA0004700TC, Technologies of removal of environmentally important pollutants by nanomaterials based on iron obtained by green chemistry methods, Universidad Tecnológica Nacional (2017).
45. Biocriticalmetals Project, ERAMIN program (UE-MINCYT). 2016-2019.
46. Grant between Karlsruhe Institute of Technology (KIT) and Universidad de Gral. San Martin, since June 2019.
47. Research Projects in Executing Units, P-UE 2020 IIIA – Institute of Research and Environmental Engineering. "Anthropogenic effects on the wetlands of the Reconquista river basin: integral environmental diagnosis, development of remediation processes and elaboration of protocols for the territory management." 2021-2025.

#### **Consulting and participation in Iberoeka (CYTED) projects**

- Barnix S.A., Guarenas-Guatire, Miranda State, Venezuela. Quantitative and functional analysis of alkyd resins. Resolution of operational problems in the production plant, 1979.
- Suelatex C.A., Charallave, State Miranda, Venezuela, Technology of PVC stabilizers. 1980.
- Petrocel S.A., México, Chemistry and Technology of poliethyleneterephthalate, 1983.
- INTI Argentina, Treatment of an effluent by UV/H<sub>2</sub>O<sub>2</sub>, 1999.
- Aqualite (Argentina), Treatment of an effluent by Advanced Oxidation Technologies. 2003.
- Participation in the Iberoeka certified project "MODULAGUA", 2006-2009.

#### **Academic and Professional Societies**

- Venezuelan Association for the Improvement of Science (ASOVAC), 1979-1980.
- Association of Professional of the National Atomic Energy Commission, 1985-.
- Argentine Association on Physical Chemistry Research, 1985-.
- Argentina Association of Nuclear Technology, 1987.
- Society of Environmental Toxicology and Chemistry, 2002-.
- International Society of Groundwater for Sustainable Development, 2006-.
- The World Academy of Sciences (TWAS), since 2019.
- Academy of Sciences of Latin America (ACAL), since 2019.
- American Chemical Society (ACS), since 2021.
- Argentine Academy of Environmental Sciences, since 2022.

#### **Chair of several scientific meetings.**

#### **Interviews to newspapers, radio programs, etc. (last)**

1. In search of solutions against arsenic, CONICET press bulletin, June 5, 2012, interview by Mercedes Benialgo, Press, Communication Department.

2. Radio INTI, Technology for Everyone Program, National Radio, June 6, 2012, interview by Mercedes Benialgo, Press, Communications Department.
3. Journalist Verónica Smink, from BBC Mundo.com. The fight against poisoned water in Argentina, [http://www.bbc.co.uk/mundo/noticias/2012/06/120613\\_argentina\\_agua\\_arsenico\\_vs.shtml](http://www.bbc.co.uk/mundo/noticias/2012/06/120613_argentina_agua_arsenico_vs.shtml), 07/14/2012.
4. Journalist Ximena Pascutti. Cover article "Drop by drop" from Rumbos Magazine, 06/29/2012.
5. Journalist Francia Fernández, AySA Magazine 70/30, 08/01/2012.
6. Cover story UNSAM News, "Marta Litter and the fight against water pollutants", 09/28/2012.
7. Canal Rural interviews, journalist Antonio Monteagudo, December 2012.
8. Con Ciencia y Trabajo program, Radio Nacional AM870, journalist Diana Costanzo, March 16, 2013. The arsenic problem.
9. Journalist Lic. Leonardo Moledo, Pagina 12 Newspaper, Problems with arsenic, Wednesday, August 14, 2013.
10. Program "Healing with opinion", with Dr. Daniel Cassola, AM 990 Radio Splendid, September 19, 2013.
11. Canal Rural, journalist Antonio Monteagudo, September 26, 2013.
12. Article in Informative Bulletin No 3, Technology and Politics: the challenge of hydroarsenicism in Argentina DESAFIO Project, Framework Program 7, European Union, Agreement No 320303, Newcastle upon Tyne, Newcastle University, January 2014 (in Spanish, English, and Portuguese).
13. Ciencia y Conciencia program, Radio Nacional AM, with journalist Diana Costanzo, March 29, 2014.
14. Planeta Azul program interview, Radio El Mundo AM, journalist Mario Portugal, April 6, 2014.
15. El Cable, Undersecretary of Communication, Exactas UBA, May 27, 2014, "International Congress on Arsenic in the Environment", by journalist Cecilia Draghi.
16. Exact News, "International Congress on Arsenic in the Environment, An invisible pollutant", June 4, 2014, by journalist Cecilia Draghi.
17. UNSAM News, International Congress on Arsenic in the Environment, May 27, 2014.
18. Journalist Nicolás Camargo Lescano, Scientific Dissemination Agency CTyS, of the National University of La Matanza, 12/23/2014, <http://www.ctys.com.ar/index.php?idPage=20&idArticulo=3053>.
19. Canal Rural interview, journalist Antonio Monteagudo, January 22, 2015, Animal health and scientific dissemination.
20. Journalist Ana Paradiso, Institutional Communication CONICET Rosario, <http://www.rosario-conicet.gov.ar/noticias2.php?id=373>, February 6, 2015.
21. Journalist Alejandro Zamponi, "The social united to the nano is relevant" for UNSAM Magazine, 03-10-2015, Year 4, No. 10.
22. EXACTAMENTE magazine. "Arsenic, Invisible and Lethal", by C. Draghi, pp. 22-25, Year 22 | No. 57 | March 2015, ISSN paper: 1514-920X, ISSN online: 1853-2942.
23. Sandra Russo Program, Radio del Plata, May 30, 2015, journalist Luciana Dalmaso.
24. Journalist Viviana Gómez included in the Science Public Communication Seminar, National University of La Plata, 18 November 2015.
25. Interview for the Argentine Network of Gender, Science and Technology (RAGCyT), journalist Victoria Cano Colazo, 1st. March 2016.
26. Interview for Elemento Vital, journalist Alejandra Fernández Greco, March 8, 2016.
27. Journalist Valeria Román, Diario Clarín, July 31, 2016, "Electronic cigarettes: they discover that they emit carcinogenic substances" by the publication Emissions from Electronic Cigarettes: Key Parameters Affecting the Release of Harmful Chemicals.
28. mdzRadio (Mendoza), August 2, 2016. Note for the publication Emissions from Electronic Cigarettes: Key Parameters Affecting the Release of Harmful Chemicals.
29. Interview for the National Library of Congress Radio, September 20, 2016. Note for the publication Emissions from Electronic Cigarettes: Key Parameters Affecting the Release of Harmful Chemicals.
30. Note in Gacetilla IECS (Institute of Clinical and Health Effectiveness), "4 million Argentines live in areas contaminated with arsenic, a substance that causes cancer and other diseases", November 2016.
31. Note in La Nación newspaper, "4 million Argentines live in areas contaminated with arsenic, a substance that causes cancer and other diseases", December 20, 2016.
32. Note in Clarín newspaper, "One in 10 Argentines lives in an area with water contaminated with arsenic", December 20, 2016.
33. "Buen día Bahía" program, Radio La Brújula 24 (Bahía Blanca), journalist Guillermina Machado, March 4, 2017.
34. CYTA Agency (Leloir Institute) about electronic cigarettes, August 25, 2017. <http://www.agenciacyta.org.ar/2017/08/cientificos-argentinos-confirman-que-existen-los-vapeadores-pasivos/>.
35. Canal Rural, journalist Antonio Monteagudo, December 2017.
36. UNSAM website, note dedicated to the World Water Day, March 22, 2018 (<http://noticias.unsam.edu.ar/2018/3/22/dia-mundial-del-agua-derecho-y-legislacion/>).

37. Note for the News Agency, Science, Technology and Society (CTyS), National University of La Matanza (UNLaM), March 22, 2018, Arsenic in water, keys to a collective solution, <http://www.ctys.com.ar/index.php?idPage=20&idArticulo=3518>.
38. Program "Todo no se puede", FM Cielo, La Plata, April 11 de abril, Electronic cigarettes.
39. Program FM 89.1, Universidad de La Matanza Radio, UNLaM, July 17, 2018.
40. Canal Rural, journalist Antonio Monteagudo, September 23, 2018.
41. UNSAM interview, December 2018, Election as a TWAS member.
42. Program Index, journalist Nicolás Gorboff, Radio Universidad Católica, Catholic University, September 23, El arsénico.
43. Interview La tarde nos UNNE (Universidad Nacional del Nordeste), conducted by Mabel Echavarría, Radio de la Universidad Nacional del Nordeste, and page [medios.unne.edu.ar](http://medios.unne.edu.ar), for the Latin American Women in Chemistry Award 2021, November 4, 2021.
44. Interviews program La Ciencia y la Salud, hosted by Horacio Sola, on Radio Voz (106.9), Tandil, November 6, 2021, <https://www.radiovoz.com.ar/>, Radio Brisas (98.5) Mar del Plata, November 6, 2021, <https://infobrisas.com/>, FM Light (97.3) November 7, 2021, San Juan, <http://www.lightfm.com.ar/> November 7, 2021, Red 101 (101.5) Mendoza November 2021. For Latin American Women in Chemistry Award 2021
45. Interview Program: Mundo UBA, Radio: CNN Argentina, AM 950, Hosts: Ricardo Braginski and Geraldine Murisasco, <https://cnnespanol.cnn.com/seccion/cnn-radio-argentina/>. Saturday, November 20, 2021, 7 p.m. For the Latin American Women in Chemistry Award 2021.
46. Page 12, University Supplement, by journalist Carolina Ortiz, <https://www.pagina12.com.ar/386594-marta-litter>, Thursday, December 2, 2021. For the Latin American Women in Chemistry Award 2021.
47. Interview Radio identidad 107.9 FM de Bragado, by journalist María Luján Duhart, El arsénico, 30 March 2022.
48. Interview conducted by students Julieta Herbón and Abril Sardi from Secondary School No. 4 of Chivilcoy, province of Buenos Aires, July 2022. Arsenic. <https://youtu.be/RWH-7cHMlcY>.
49. Interview La tarde nos UNNE (Universidad Nacional del Nordeste), conducted by Mabel Echavarría, Radio of the Universidad Nacional del Nordeste, for Admission as a Full Academician to the Argentine Academy of Environmental Sciences, August 11, 2022.
50. Press interview CNEA, December 2, 2022 for Houssay Trajectory Award.
51. Interview Radio Nacional del Bolsón, with journalist Adrián Moreno, December 7, 2022 for Houssay Trajectory Award.
52. Interview with journalist Valeria Román for INFOBAE, 11 December 2022, The danger of arsenic: there are more than 14 million people exposed in Latin America.
53. Interview with journalist Pepe Gil Vidal for Radio CNN Argentina on the danger of arsenic in water, December 12, 2022.

Prof. Dr. Marta Litter  
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