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N. Mariano Correa was born in Mendoza, Argentina. He received his undergraduate degree with first class honors from Universidad Nacional de Río Cuarto (UNRC). Under the guidance of Prof. Juana J. Silber, he earned the Ph.D. degree in Chemical Sciences from UNRC in 1997 where his research explored reverse micelles. Following his graduate studies, Dr. Correa performed postdoctoral research at University of Texas at Arlington, USA with Prof. Zoltan A. Schelly investigating the mechanism of liposomes electroporation. He has worked with Prof. Omar El Seoud at Universidad de Paulo, Brazil and later with Prof. Nancy E. Levinger at Colorado State University, USA with support from a Fulbright award. Presently he holds the positions of Professor and Scientific Researcher of CONICET (the National Research Council of Argentina). His research interests include a series of work lines that study intermolecular interactions-chemical recognition in supramolecular structures and organized media. The studies are pointed to comprehend the factors that determine the interaction of a solute with a particular media, and apply them to several processes. The supramolecular systems of interest are aqueous and non aqueous reverse micelles in organic solvents.

#### PERSONAL DATA

**Birth:** May 15, 1968

**Sex:** Male

**Marital Status:** Single.

**Languages:** fluent in Spanish and English. Read and comprehension: Portuguese and Italian.

**Birthplace:** Mendoza, Argentina.

**Citizenship:** Argentinean.

#### EDUCATION

High-schools in Argentina (Diploma in 1985).

1986-1991

Universidad Nacional de Río Cuarto. Argentina.

1992-1997 Graduate in Chemistry, 1991. Grade: **9.68/10**.  
Doctor in Chemistry (PhD). **Thesis advisor:** Professor Dr Juana J. Silber. **Thesis Title:** “Physical Organic Chemistry Studies in Organised Media. Reversed Micelles and Microemulsions. Solvatochromism and Influence in the Rate of the Reaction”.

#### POSTDOCTORAL FELLOWSHIPS

- March 1997 to June 1998. Center for Colloidal and Interfacial Dynamics. University of Texas at Arlington. **Electroporation of Unilamellar Surfactant Vesicles** (with Professor Dr. Zoltan A. SCHELLY). Arlington, Tx USA.
- July 1999 to September 1999. Instituto de Quimica de la Universidad de Sao Paulo (Brasil) (with profesor Dr. Omar El Seoud).
- July 21 2000 to August 25 2000. Instituto de Quimica de la Universidad de Sao Paulo (Brasil) (with professor Dr. Omar El Seoud). **Solubilization of protic substrates by reverse aggregates in nonaqueous solvents.**
- June 23 2002 to July 29 2002. Instituto de Quimica de la Universidad de Sao Paulo (Brasil) (with professor Dr. Omar El Seoud). **Solubilization of Protic Substrate by Aerosol-OT Reverse Aggregates in Organic Solvents as Studied by FTIR and <sup>1</sup>HNMR.**
- September 15 2002 to January 25 2003. Dipartimento Di Chimica. Università di L’Aquila (with professor Dr. Giorgio Cerichelli). **Green Chemistry: Kinetic Investigation of the Ketones Reduction by sodium Borohydride in different Reverse Micellar Media and the Study of the Suzuki Reaction in Different Surfactant Water Solution.**
- September 2005 – december 2005. Department of Chemistry. Colorado State University Fort Collins (USA) with Prof Nancy Levinger **Dynamics of Polar Solvation in Confined Environments: Non-aqueous Polar Solvents in Reverse Micelles.** FULBRIGHT award.
- August 20, 2007 – September 20, 2007. Department of Chemistry. Colorado State University Fort Collins (USA) with Prof Nancy Levinger. **Ultra – Fast phenomena in organized systems. Practical and theoretical applications.**
- September 1, 2008 – September 21, 2008. Department of Chemistry. Colorado State University Fort Collins (USA) with Prof Nancy Levinger. **Ultra – Fast phenomena in organized systems. Practical and theoretical applications.**

#### EDUCATIONAL WORK’S EXPERIENCE.

04/92-Present

Department of Chemistry, Universidad Nacional de Rio Cuarto. ARGENTINA.  
**Professor** in Organic Chemistry, General Chemistry and Analytical Chemistry.

#### POSITIONS HELD

- Full Profesor, Universidad Nacional de Rio Cuarto, ARGENTINA (Since 2019).
- Research Position (Superior Research/ Investigador Superior) at Argentinean Council of Sciences (CONICET) since June 2022.
- Associate Editor of RSC-Advances (Royal Society of Chemistry). Since May 2016.
- Chair of the Chemistry Department since 2021

#### AWARDS

- Best Student of the University.
- **“Dr. Eduardo Gros” 2009 Award.** Granted by the Sociedad Argentina de Investigación en Química Orgánica (SAIQO), to the best Organic Chemistry Scientific of Argentina. November 2009
- **“Cristina Giordano” 2015 Award.** Granted by the Asociación Argentina de Investigación Físicoquímica (AAIFQ) to the best Physical Chemistry Scientific of Argentina. April 2015

**TOTAL PUBLICATIONS. 151 publications, references: 4481, h index: 37.**

**1) Micropolarity of Reverse Micelles of AOT in n-Hexane** N.M. Correa, M.A. Biasutti and J.J. Silber. *J. Colloid. Interface. Sci.*, **172**, 71-76 (1995). ISSN: 0021-9797. **IP 2.233**

**2) Micropolarity of Reverse Micelles: Comparison Between Anionic, Cationic And Neutral Reverse Micelles.** N.M. Correa, M.A. Biasutti and J.J. Silber. *J Colloid Interface Sci.* **184/2**, 570 -578, (1996). ISSN: 0021-9797. **IP 2.233.**

**3) Binding Of Nitroanilines To Reverse Micelles Of AOT-nHexane.** N. M. Correa and J.J. Silber. *J. Molec. Liquid.* **72**, 163-176 (1997). ISSN: 0167-7322, **IP 1.057.** Elsevier, Holanda

**4) Binding Of Nitrodiphenylamine To Reverse Micelle Of AOT in n-hexane and Carbon Tetrachloride. Solvent and Substituent effects.** N. M. Correa, E. N. Durantini and J. J. Silber, *J Colloid Interface Sci.*, **208**, 96 -103, (1998). ISSN: 0021-9797. **IP 2.233.**

**5) Electroporation of Unilamellar Vesicles studied by using a Pore-Mediated Electron Transfer Reaction.** N.M Correa, Z.A. Schelly. *Langmuir.* **14**, 20, 5802-5805, (1998). ISSN: 0743-7463. **IP 3.902.**

**6) Dynamics of Electroporation of Synthetic Liposomes Studied Using a Pore-mediated Reaction,  $Ag^+ + Br^- \rightarrow AgBr$ .** N.M Correa, Z.A. Schelly. *J. Phys. Chem. B*, **102 (46)** , 9319-9322 (1998). ISSN: 1089-5647. **IP 4.115**

**7) Catalysis in Micellar Media. Kinetics and Mechanism of the reaction of 1-fluoro-2,4-dinitrobenzene with n-Butylamine and Piperidine in n-hexane and AOT/nHexane/water Reverse Micelles.** N. M. Correa, E. N. Durantini and J. J. Silber. *J. Org. Chem.* **64**, 5757-5763, (1999). ISSN: 0022-3263. **IP 3.790**

**8)  $S_NAr$  Reactions of 1-Halo-2,4-Dinitrobenzene with n-Butylamine in AOT/n-Hexane/Water reverse micellar media. Influence of The Leaving Group.** L. Boscatto, S.M. Chiacchiera, N.M. Correa, E.N. Durantini, L. Zingaretti, J.J. Silber. *Atual. Fisicoquim. Org. Brasil 1998.* **11**, 534-552, (1999).

**9) Micropolarity of AOT in Aqueous and Nonaqueous Microemulsions.** N. M Correa, R.D. Falcone, M.A. Biasutti, J.J. Silber. *Atual. Fisicoquim. Org. Brasil 1998.* **11**, 196-213, (1999).

**10) Preparation of AgBr quantum dots via the electroporation of Vesicles.** N.M Correa, H. Zhang, Z.A. Schelly. *J. Am. Chem. Soc.* **122:(27)**, 6432-6434, (2000). ISSN: 0002-7863. **IP 7.696**

**11) Properties of AOT Aqueous and Nonaqueous Microemulsions Sensed by Optical Molecular Probes.**, R.D. Falcone, N.M. Correa, M.A. Biasutti, J.J. Silber. *Langmuir.* **16(7)**, 3070-3076 (2000). ISSN: 0743-7463. **IP 3.902.**

**12) FT-IR and  $^1H$ NMR Studies of the Solubilization of Pure and Aqueous 1,2-Ethandiol in the Reverse Aggregates of Aerosol-OT.** L.P. Novaki, N.M. Correa, J.J., Silber, O.A. ElSeoud, *Langmuir*, **16**, 5573-5578, (2000). ISSN: 0743-7463 **IP 3.902**

**13) Influence of Anionic and Cationic Reverse Micelles on Nucleophilic Aromatic Substitution Reaction Between 1-Fluoro-2,4-dinitrobenzene and Piperidine.** N.M. Correa, E.N. Durantini, J.J. Silber, *J. Org. Chem.*, **65**, 6427-6433, (2000). **IP 3.790.** ISSN: 0022-3263. American Chemical Soc. Washington USA.

**14) Reverse Micellar Catalytic Effect on  $S_NAr$  Reaction of 1- Fluoro-2,4-Dinitrobenzene With Piperidine.** N.M. Correa, E.N. Durantini, J.J. Silber. *Atual. Fisicoquim. Org. Brasil 1999.* **12**, 96-118, (2000).

**15) Substituent Effects on Binding Constants of Carotenoids to AOT/ n-Heptane Reverse Micelles.** N.M. Correa, E.N. Durantini, J.J. Silber. *J Colloid Interface Sci.* **240**, 573 – 580 (2001). **IP 2.233.** ISSN: 0021-9797. Academic Press, New York, USA

**16) Solubilization of Pure and Aqueous 1,2,3-Propanetriol by Reverse Aggregates of Aerosol-OT in Isooctane Probed by FTIR and  $^1H$ NMR Spectroscopy.** O. El SEoud, N.M. Correa, L.P. Novaki. *Langmuir* **17(6)**, 1847-1852, (2001). **IP 3.902.** ISSN: 0743-7463. American Chemical Soc. Washington USA.

**17) Acid-Base and Aggregation Processes of Acridine Orange in n-Heptane/AOT/water Reverse Micelles.** R.D. Falcone, N.M. Correa, M.A. Biasutti, J.J. Silber. *Langmuir* **18**, 2039-2047, (2002). **IP 3.902.** ISSN: 0743-7463. American Chemical Soc. Washington USA.

**18) Exploratory Study of the Effect of Polar Solvents upon the Partitioning of Solutes in Nonaqueous Reverse Micellar Solutions.** J.J. Silber, , R.D. Falcone, N.M. Correa M.A. Biasutti, E. Abuin. E. Lissi, P. Campodonico. *Langmuir.* **19**, 2067 - 2071 (2003). **IP 3.902.** ISSN: 0743-7463. American Chemical Soc. Washington USA.

**19) Mild and Versatile Method for Palladium Catalyzed Cross-Coupling of Aryl Halides in Water and Surfactants.** Antonio Arcadi, Giorgio Cerichelli, Marco Chiarini, Mariano Correa, Daniel Zorzan. *Eur. J. Org. Chem.* **20**, 4080-4086 (2003). **IP 2.43.** ISSN:1434-193X. WILEY-VCH Verlag. Germany.

**20) Effect of the addition of a non-aqueous polar solvent (glycerol) on enzymatic catalysis in reverse micelles. Hydrolysis of 2-naphthyl acetate by  $\alpha$ -chymotrypsin.** R.D. Falcone, M.A. Biasutti, N.M. Correa, J.J. Silber, E. Lissi, E. Abuin. *Langmuir* **20**, 5732-5737. (2004). **IP 3.902.** ISSN: 0743-7463. American Chemical Soc. Washington USA.

**21) Reverse Micellar Aggregates: Effect on Ketone Reduction. Part 1 Substrate Rol.** N.M. Correa, H. D. Zorzan, M. Chiarini, G. Cerichelli. *J. Org. Chem.* **69**, 8224-8230, (2004). **IP 3.790.** ISSN: 0022-3263. American Chemical Soc. Washington USA.

**22) Reverse Micellar Aggregates: Effect on Ketone Reduction. Part 2: Surfactant Role** N.M. Correa, H. D. Zorzan, L. D'Anteo, E. Lasta, M. Chiarini G. Cerichelli. *J. Org. Chem.* 69, 8231-8238, (2004). **IP 3.790**. ISSN: 0022-3263. American Chemical Soc. Washington USA.

**23) Characterization of Different Reverse Micelles Interfaces using The Reaction of 4-fluoro-3-nitrobenzoate with Piperidine.** N.M. Correa, E.N. Durantini, J.J. Silber. *J. Phys. Org. Chem.* 18. 121-127 (2005). **IP 1.52**. ISSN:0894-3230. John Wiley & Sons New York, USA.

**24) Distribution of amines in water/AOT/n-hexane reverse micelles. Influence of the amine chemical structure.** L. Zingaretti, N.M. Correa, L. Boscatto, S.M. Chiacchiera, E.N. Durantini, S.G. Bertolotti, C.R. Rivarola, J.J. Silber. *J Colloid Interface Sci.* 286, 245-252 (2005). **IP 2.233**. ISSN: 0021-9797. Academic Press, New York, USA

**25) The Real Structure of Formamide Entrapped by AOT Non Aqueous Reverse Micelles. FT-IR and <sup>1</sup>H NMR Studies.** N.M. Correa\*, P. A.R. Pires, J.J. Silber, O. ElSeoud. *J. Phys. Chem. B* 109, 21209-21219, (2005). **IP. 4.115**. ISSN: 1520-6106. American Chemical Soc. Washington USA.

**26) The Use of Acridine Orange Base (AOB) as Molecular Probe to Characterize Non-aqueous AOT Reverse Micelles.** R. Darío Falcone, N. Mariano Correa, M. Alicia Biasutti, and Juana J. Silber. *J Colloid Interface Sci.* 296, 356 – 364, (2006). **IP 2.233**. ISSN: 0021-9797. Academic Press, New York, USA.

**27). New Insights on the Behavior of Prodan in Homogeneous Media and in Large Unilamellar Vesicles.** F.Moyano, M.A. Biasutti, J.J. Silber, N.M. Correa\*. *J. Phys. Chem. B.* 110, 11838-11846, (2006) **IP. 4.115**. ISSN: 1089-5647.

**28) What can you learn from a molecular probe?. New insights on the behavior of C343 in homogeneous Solutions and AOT reverse micelles.** N.M Correa\*, N. E. Levinger. *J. Phys. Chem. B* 110, 13050-13061 (2006). **IP. 4.115**. ISSN: 1520-6106. American Chemical Soc. Washington USA

**29) Non-aqueous reverse micelles media for the S<sub>N</sub>Ar reaction between 1-fluoro-2,4-dinitrobenzene and piperidine.** N.M. Correa, E. N. Durantini, J. J. Silber. *J. Phys. Org. Chem.* 19, 805-812 (2006). **IP 1.52**. ISSN:0894-3230. John Wiley & Sons New York, USA

**30) When water is not water?. Exploring water confined in reverse micelles using a highly charged inorganic molecular probe.** B. Baruah, J. Roden, M. Sedgwick, N. M. Correa, D. C. Crans N. E. Levinger. *J. Am. Chem. Soc* 128, 12758- 12765. (2006) **IP 7.696**. ISSN: 0002-7863. American Chemical Soc. Washington USA

**31) New Insights on the Photophysical Behavior of PRODAN in Anionic and Cationic Reverse Micelles. From Which State or States does it Emit?** M. Novaira, M. A. Biasutti, J. J. Silber, N. M. Correa\*. *J. Phys. Chem B* 111, 748-759 (2007). **IP. 4.115**. ISSN: 1089-5647. American Chemical Soc. Washington USA

**32) Comparative Study of the Photophysical Behaviour of Fisetin in Homogeneous Media and in Anionic and Cationic Reverse Micelles Media.** Matías Funes, N. Mariano Correa, Juana J. Silber, M. Alicia Biasutti. *Photochem. Photobiol.* 83, 486-493, (2007). **IP 2.287**. ISSN 0031-8655. Blackwell Publishing USA.

**33) Electrochemistry in AOT Reverse Micelles. A Powerful Technique to Characterize Organized Media.** Patricia G. Molina, Juana J. Silber, N. Mariano Correa\*, Leonides Sereno. *J. Phys. Chem C.* 111, 4269-4276 (2007). ISSN 1932-7447. American Chemical Soc. Washington USA

**34) On the possibility that cyclodextrins chiral cavities can be available on AOT n-heptane reverse micelles. A UV-Visible and Induced Circular Dichroism Study.** F. O. Silva, J.J. Silber, R. H. de Rossi, N.M. Correa\*, M. A. Fernández. *J. Phys. Chem. B.* 111, 10703-10712, (2007). ISSN: 1520-6106. American Chemical Soc. Washington USA. **IP. 4.115**

**35) Kinetics of reactions catalyzed by enzymes in solutions of surfactants.** M. A. Biasutti, E. A. Abuin, J. J. Silber, N. M. Correa, E. A. Lissi. Review. *Advances in Colloid and Interface Science.* 136, 1-24 (2008). **IP. 3.790**. ISSN: 0001-8686. Elsevier. Amsterdam, Holanda.

**36). On the Investigation of the Bilayer of Large Unilamellar Vesicles Using Different Cationic Hemicyanines and DPH. A Wavelength – Selective Fluorescence Approach.** F. Moyano, J. J. Silber, N. M. Correa\*. *J. Colloid Interface Sci.* 317, 332-345 (2008). **IP 2.233**. ISSN: 0021-9797. Academic Press, New York, USA

**37) An Example of How to Use AOT Reverse Micelles Interface to Control a Photoinduced Intramolecular Charge Transfer Process.** M. Novaira, F. Moyano, M. A. Biasutti, J. J. Silber, N. M. Correa\*. *Langmuir* 24, 4637-4646. (2008). ISSN: 0743-7463. American Chemical Soc. Washington USA **IP 3.902**

**38) Characterization of Multifunctional Reverse Micelles Interfaces Using Hemicyanines as Molecular Probes. 1: Effect of the hemicyanines' Structure.** F. Moyano, S.S. Quintana, R. D. Falcone, J. J. Silber, N. M. Correa\*. *J. Phys. Chem. B.* 113, 4284-4292 (2009) ISSN: 1520-6106. American Chemical Soc. Washington USA. **IP. 4.115**.

**39) Characterization of Multifunctional Reverse Micelles Interfaces Using Hemicyanines as Molecular Probes. 2: Effect of the Surfactant.** S. S. Quintana, F. Moyano, R. D. Falcone, J. J. Silber, N. M. Correa\*. *J. Phys. Chem. B.* 113, 6718-6724 (2009) ISSN: 1520-6106. American Chemical Soc. Washington USA. **IP. 4.115**.

**40) Effect of Constrained Environment on the Interaction between the Surfactant and Different Polar Solvents Encapsulated Within AOT Reverse Micelles.** A.M. Durantini, R.D. Falcone, J. J. Silber, N.M. Correa\*. *ChemPhysChem*. 10, 2034-2040 (2009). WILEY-VCH. Alemania. ISSN: 1439-4235. **IP 3.502**

**41) On the Formation of New Reverse Micelles: A Comparative Study of Benzene/Surfactants/Ionic Liquids Systems Using UV-Visible Absorption Spectroscopy and Dynamic Light Scattering.** R.D. Falcone, N.M. Correa, J.J. Silber *Langmuir*. 25, 10426-10429 (2009).

**42) What are the Factors that Control the Nonaqueous AOT Reverse Micelles Sizes? A Dynamic Light Scattering Study.** R.D. Falcone, J.J. Silber, N. M. Correa\*. *Phys Chem Chem Phys* 11, 11096-11100 (2009). Royal Society of Chemistry(RSC). Gran Bretaña. ISSN 1463-9076. IP: 4.06.

**43). An Alternative Approach to Quantify Partition Process in Confined Environments: The Electrochemical Behavior of PRODAN in Unilamellar Vesicles.** F. Moyano, P. G. Molina, J.J. Silber, L. Sereno, N.M. Correa\*. *ChemPhysChem*. 11, 236-244 (2010). WILEY-VCH. Alemania. ISSN: 1439-4235. **IP 3.502**

**44) A kinetic study of the photodynamic effect on tryptophan methyl ester and tryptophan octyl ester in DOPC vesicles.** A. Posadaz, N. M. Correa, M. A. Biasutti, N. A. Garcia. *Photochem. Photobiol.* 86, 96-103 (2010). ISSN 0031-8655. Blackwell Publishing USA. **IP: 2.29.**

**45) Cationic Reverse Micelles Create Water with Super Hydrogen Bond Donor Capacity for Enzymatic Catalysis. Hydrolysis of 2-Naphthyl Acetate by  $\alpha$ -Chymotrypsin.** F. Moyano, J. C Mejuto, R. D. Falcone, J. J. Silber, N. M. Correa\*. *Chem- Eur. Journal*. 16, 8887-8893 (2010). WILEY-VCH. Alemania. ISSN: 0947-6539 **IP: 5.454.**

**46) The Role of the Medium on the C343 Inter/Intramolecular Hydrogen Bond Interactions. An Absorption, Emission and <sup>1</sup>HNMR Investigation of C343 in Benzene:n-Heptane Mixtures"** J. A Gutierrez, R. D. Falcone, J. J. Silber, N. M. Correa\*. *J. Phys. Chem. A*. 114, 7326-7330 (2010). ISSN 1089-5639

**47) Interfacial water with special electron donor properties: Effect of water-surfactant interaction in confined reversed micellar environments and its influence on the coordination chemistry of a copper complex.** Diana Blach, N. Mariano Correa, Juana J. Silber and R. Dario Falcone *J. Colloid. Int. Sci.* 355, 124-130 (2011).

**48) Layered structure of room temperature ionic liquids in microemulsions by multinuclear NMR spectroscopic studies.** R. Dario Falcone, Bharat Baruah, Ernestas Gaidamauskas, Christopher D. Rithner, N. Mariano Correa, Juana J. Silber, Debbie C. Crans, Nancy E. Levinger. *Chem- Eur. Journal*. 17, 6837-6846, (2011).

**49) Binding of o-nitroaniline to nonaqueous AOT reverse micelles.** R. D. Falcone, J. J. Silber, M. A. Biasutti, N. M. Correa\*. *ARKIVOK*. Vii, 369-379, (2011). ISSN: 1551-7004. Arkat USA Inc. Ingles.

**50) A New Organized Media: Glycerol:N,N-Dimethylformamide/AOT/n-Heptane Reverse Micelles. A UV-Visible Absorption, Dynamic Light Scattering and <sup>1</sup>HNMR Investigation.** A M. Durantini, R.D. Falcone, J.J. Silber, N.M. Correa\*. *J. Phys. Chem B* 115, 5894-5902 (2011).

**51) Electrochemistry in Large Unilamellar Vesicles. The distribution of 1-Naphthol studied by Square Wave Voltammetry.** J. S. Florez Tabares, M. L. Blas, L. E. Sereno, J J. Silber, N. M. Correa\*, P. G. Molina. *Electrochim. Acta* 56, 10231- 10237 (2011). ISSN: 0013-4686 Elsevier, Amsterdam.

**52) Solvent Blends can Control Cationic Reversed Micellar Interdroplet Interactions. The Effect of n-Heptane:Benzene Mixture on BHDC Interfacial Properties: Droplet Sizes and Micropolarity.** F. Agazzi, R.D. Falcone, J.J. Silber, N.M. Correa\*. *J. Phys. Chem. B* 115, 12076-12084 (2011).

**53) Inhibited Phenol Ionization in Reverse Micelles. Confinement Effect at the Nanometric Scale.** O. Fernando Silva, Mariana Fernández, Juana J. Silber, Rita H. de Rossi, N. M. Correa\*. *ChemPhysChem*. 13, 124-130. (2012).

**54) Comparison between two Anionic Reversed Micelle Interfaces. The Role of Water-Surfactant Interactions on the Interface Properties.** S. S. Quintana, R. D. Falcone, J. J. Silber, N. M. Correa\*. *ChemPhysChem*. 13, 115-123 (2012).

**55) The Effect of Different Interfaces and Confinement on the Structure of the Ionic Liquid 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide Entrapped in Cationic and Anionic Reverse Micelles.** D. D. Ferreyra, N. M. Correa, J. J. Silber, R. D. Falcone. *Phys. Chem. Chem. Phys.* 14, 3460-3470. (2012).

**56) C343 Behavior in Benzene/AOT Reverse Micelles. The Role of the Dye Solubilization in the Non-polar Organic Pseudophase.** J. A. Gutierrez, R. D. Falcone, J. J. Silber, N. M. Correa\* *Dyes and Pigments* 95, 290-295 (2012). IP: 2.635. ISSN 0143-7208. Elsevier, Holanda.

**57) Nonaqueous Polar Solvents in Reverse Micelle Systems.** N. M. Correa, J. J. Silber, R.E. Riter, N. E. Levinger. *Chem. Rev.* 112, 4569-4602 (2012) **IP: 40.197.** ISSN: 0009-2665. American Chemical Soc. Washington USA.

**58) A Unique Ionic Liquid with Amphiphilic Properties that Can Form Reverse Micelles and Spontaneous Unilamellar Vesicles.** C. C. Villa, F. Moyano, M. Ceolin, J. J. Silber, R. D. Falcone\*, N. M. Correa\* *Chem- Eur. Journal*. 18, 15598-15601 (2012).

**59) An Interesting Case where Water Behaves as a Unique Solvent. 4-Aminophthalimide Emission Profile to Monitor Aqueous Environment.** Andrés M. Durantini, R. Darío Falcone, Jorge D. Anunziata, Juana J. Silber, Elsa B. Abuin, Eduardo A. Lissi N. Mariano Correa\*. *J. Phys. Chem. B*, 117, 2160-2168 (2013).

**60) Corrigenda to An Interesting Case where Water Behaves as a Unique Solvent. 4-Aminophthalimide Emission Profile to Monitor Aqueous Environment** Andrés M. Durantini, R. Darío Falcone, Jorge D. Anunziata, Juana J. Silber, Elsa B. Abuin, Eduardo A. Lissi N. Mariano Correa\*. *J. Phys. Chem. B* 2013, 117, 5392–5392.

**61) “Reply to Comment on ‘An Interesting Case Where Water Behaves as a Unique Solvent. 4-Aminophthalimide Emission Profile to Monitor Aqueous Environment’”** Andrés M. Durantini, R. Darío Falcone, Jorge D. Anunziata, Juana J. Silber, Elsa B. Abuin, Eduardo A. Lissi N. Mariano Correa\* *J. Phys. Chem. B* 2013, 117, 5389–5391.

**62) PRODAN Dual Emission Feature to Monitor BHDC Interfacial Properties Changes with the External Organic Solvent Composition.** Agazzi, F., Rodriguez, J., Falcone, R. D., Silber, J. J., Correa, N.M\*. *Langmuir* 29, 3556–3566 (2013).

**63) More Evidences on the Control of the Reverse Micelles Sizes. Combination of Different Techniques as Powerful Tool to Monitor AOT reversed Micelles Properties.** Andrés M. Durantini, R. Darío Falcone, Juana J. Silber, and N. Mariano Correa\*. *J. Phys. Chem. B* 117, 3818-3828 (2013).

**64) Enzymatic Hydrolysis of N-Benzoyl-L-tyrosine p-nitroanilide by  $\alpha$ -Chymotrypsin in DMSO-water/AOT/n-Heptane Reverse Micelles. A Unique Interfacial Effect on the Enzymatic Activity.** Fernando Moyano, Evangelina Setien, Juana J. Silber, N. Mariano Correa\*. *Langmuir*. 29, 8245-8254 (2013).

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## BOOK CHAPTERS

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## CONGRESS AND SYMPOSIUMS

I have presented more than 300 communications in national and international meetings

I have been invited to give 22 Conferences in Argentina, USA, Brazil, Germany, Thailand and Colombia

## DOCTORAL STUDENTS SUPERVISED.

- 1) Dr. Rubén Dario Falcone. May 2004. (collaborator)
  - 2) Dr. Fernando Moyano. November 2008 (Co-Advisor).
  - 3) Dr Mercedes Novaira. March 2010. (Advisor).
  - 4) Dr. Silvina Quintana. March 2012 (Advisor).
  - 5) Dr. Andres Durantini. December 2013( Advisor).
  - 6) Dr. Jorge Gutierrez. Function: (Advisor) March 2013.
  - 7) Dr. Diana Blach Vargas. Function: (Co-Advisor). May 2014
  - 8) Dr. Cristian Villa. Function: (Co-Advisor). September 2014.
  - 9) Dr. Federico Agazzi. Function: (Advisor) December 2014.
  - 10) Dr. Juan S. Florez. Function: Co-Advisor. April 2015.
  - 11) Dr. Matias Crosio. Function: Advisor. June 2016.
  - 12) Dr. Valeria Girardi. Function: Co-Advisor July 2016.
  - 13) Dr. Ezequiel Cuenca. Function: Advisor. August 2016.
  - 14) Dr. Emmanuel Odella. Function: Advisor. March 2017
  - 15) Dr. Cristian Lepori. Function: Co-Advisor. March 2018
  - 16) Dr. Jessica Otarola. Function Advisor. July 2018.
  - 17) Dr. Airam Cobo Solis. Function Co-Advisor February 2019.
  - 18) Dr. Soledad Stagnoli. Function: Co-Advisor in her PhD in Biology. December 2019
  - 19) Dra. Melina Duque. Function Co-Advisor in her PhD in Chemistry. August 2025
- Nowadays I am supervising 3 doctoral students.

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