

Curriculum Vitae – Dra. Tania E. Lara-Ceniceros

Current Position. Titular Researcher “A” at CIMAV-Monterrey, México. February 2014-present.

Previous Positions. Associated Researcher “C” at CIMAV-Monterrey, México. February 2009-January 2014.

Education. Doctor of Philosophy (Polymer Science and Technology), CIQA (Research Center in Applied Chemistry), October 2008, Saltillo, Coahuila, México; Bachelor in Chemistry, Autonomous University of Coahuila, October 2002, Specialty in Organic Chemistry.

Selected Awards and Honours. Fellowship for PhD, CONACYT (2003-2008). Level 1 National Researcher (SNI I) (January 2016-December 2019). Level 1 National Researcher (SNI I) (January 2013-December 2015). Level Candidate Researcher (SNI C) (January 2010-December 2012). University Merit Medal "Antonio de La Fuente" for having obtained the highest average during the professional studies, Autonomous University of Coahuila, October 2002.

Professional Associations. Active member of Thematic Network of Nanoscience and Nanotechnology (CONACYT) and Thematic Network of Soft Matter (CONACYT). Member of *Polymer Society of Mexico* (SPM) (2007-present).

Expertise Areas. Her current researches involve the synthesis of water soluble polymers by free radical polymerization, CRP, heterogeneous phase polymerization, associative water-soluble polymers, rheology, polyelectrolytes, polymer-surfactant interactions, smart polymers (thermo, pH and magnetic sensitive), gels and their use as stabilisers of nanoparticles, microwave assisted synthesis and biopolymers as drug delivery systems, and the obtention of nanocellulose fibrils from polymeric biomasses.

Grants/Funding Records. National Council for Science and Technology (CONACYT México). Actually is the Principal Investigator of the project “Integrative approach for development of nanocellulose-based sorbents derived from sustainable biosources for optimised industrial wastewater treatment”, Institutional Links Program 2016, CONACYT-British Council.

- Basic Science Project as Principal Investigator “Confined and thermosensitive polymer sites: stabilisation of metallic nanoparticles in aqueous media”(1.35 million pesos).
- She has procured (jointly with other CIMAV collaborators) more than 42 million pesos in projects of technological development (2009-2017) at CONACYT PEI-grants (Incentive for Innovation Program).

Teaching. 8 years of teaching experience since 2009 in consolidated postgraduate programs in advanced materials and nanotechnology from CIMAV (MSc and PhDs students).

Dr T.E. Lara Cenicerros is actually *Titular Researcher “A”* at CIMAV-Monterrey, México, Level 1 National Researcher (SNI I). She received his PhD in Polymer Science and Technology (CIQA, 2008, Saltillo, Coahuila, México). Dr Lara Cenicerros is an active Member of *Polymer Society of Mexico* (SPM) since 2007. She has supervised 2 PhD students and 4 bachelor students, and is currently supervising 3 MSc student and co-supervising 1 MSc student with her collaborators in CIMAV-Monterrey in the theme of synthesis/characterization of nanomaterials and functionalisation of nanoparticles in aqueous media. She has published more than 15 journal articles including publications in *Adv Mater*, *RCS Advances*, *Colloid Pol Sci* and *J Appl Polymer Sci*. Her current researches involve the synthesis of water soluble polymers by free radical polymerization, CRP, heterogeneous phase polymerization, associative water-soluble polymers, rheology, polyelectrolytes, polymer-surfactant interactions, smart polymers (thermo, pH and magnetic sensitive), gels and their use as stabiliser of nanoparticles, microwave assisted synthesis and biopolymers as drug delivery systems and the obtention of nanocellulose fibrils from polymeric biomasses.

Since her incorporation to CIMAV-Monterrey in 2009, she has 8 years of experience in courses in consolidated postgraduate programs in advanced materials and nanotechnology from CIMAV (MSc and PhDs students). During this time she has led projects of technological importance in relevant areas such as

paints, paper industry (cellulose industry), pharmaceutical and chemical industry. She has procured (jointly with other CIMAV collaborators) more than 42 million pesos in projects of technological development (2009-2017) at CONACYT PEI-grants (Incentive for Innovation Program).

Dr T. E. Lara Cenicerros is an established researcher in polymer science/nanotechnology with focus on synthesis/characterization of nanomaterials and functionalisation of nanoparticles.

Select Publications. Book Chapters: Tania E. Lara-Cenicerros, V.M. Ovando-Medina, S. Carro, M. Rabelero-Velasco. "Polymerization in Nanocolloids and Derived Products", **2016**, Chapter 10, 331-364. Nanocolloids, a meeting point for Scientist and Technologists, Edited by Margarita Sánchez-Domínguez and Carlos Rodríguez-Abreu, Elsevier. ISBN: 978-0-12-801578-0. Carlos Guerrero-Sanchez, Tina Erdmenger, Tania Lara-Cenicerros, Enrique Jimenez-Regalado, Ulrich S. Schubert. "Smart Materials Based on Ionic Liquids: the Magnetorheological Fluid Case". Ionic Liquids: From Knowledge to Application, **2010**, Chapter 10, Volume 1030, 147-155, ACS Symposium Series. DOI: 10.1021/bk-2009-1030, ISBN13: 9780841269972. **Publications:** C. J. Pérez-Martínez, Sergio Daniel Morales Chávez, T. del Castillo-Castro, Tania Ernestina Lara Cenicerros, M. M. Castillo-Ortega, D. E. Rodríguez-Félix, Juan Carlos Gálvez Ruiz. "Electroconductive nanocomposite hydrogel for pulsatile drug release", *Reactive and Functional Polymers*, **2016**, 100, 12-17; *Judith Percino, José A. Pacheco, Guillermo Soriano-Moro, Margarita Cerón, M. Eugenia Castro, Víctor M. Chapela, José Bonilla-Cruz, Tania E. Lara-Cenicerros, Mildred Flores-Guerrero and Enrique Saldivar-Guerra. Synthesis, characterization and theoretical calculations of model compounds of silanols catalyzed by TEMPO to elucidate the presence of Si–O–Si and Si–O–N bonds", *RSC Advances*, **2015**, 5, 97, 79829; *Herrera-Kao Wilberth, Cervantes-Uc J. Manuel, Lara-Cenicerros Tania, Aguilar-Vega Manuel. "Effect of reaction temperature on the physicochemical properties of poly(pentadecanolide) obtained by enzyme-catalyzed ring-opening polymerization". *Polymer Bulletin*, **2015**; *Tania E. Lara-Cenicerros, Gregorio Cadenas-Pliego, Claudia C. Rivera-Vallejo, Ramón E. Díaz de León-Gómez, Alejandro Coronado, Enrique J. Jiménez-Regalado. "Synthesis and characterization of thermo-insensitive, water-soluble associative polymers with good thickening properties at low and high temperatures". *Journal of Polymer Research*, **2014**, 21, 511; * Víctor M. Ovando-Medina, Miguel A. Corona-Rivera, Alfredo Márquez-Herrera, Tania E. Lara-Cenicerros, Ricardo Manríquez-González, René D. Peralta. "Heterophase Polymerization of Different Methacrylates: Effect of Alkyl Ester Group on Kinetics and Colloidal Behavior". *Journal of Applied Polymer Science*, **2014**; *José Bonilla-Cruz, Tania E. Lara-Cenicerros, D. G. Ramírez-Wong, Enrique Saldivar-Guerra, et al.. "Amphiphilic Block Copolymer from Hydroxyl-Terminated Polymers Functionalized with TEMPO. A New Synthetic Method Using Oxoammonium Salt". *Macromolecular Chemistry and Physics*, **2011**, 212, 15, 1654-1662; *Carlos Guerrero-Sánchez, Tania Lara-Cenicerros, Enrique Jiménez-Regalado, Mircea Rasa, Ulrich S. Schubert. "Magnetorheological fluids based on Ionic Liquids". *Advanced Materials*, **2007**, 19, 1740-1747; * José Bonilla-Cruz, Tania Lara-Cenicerros, Enrique Saldivar-Guerra, Enrique Jiménez-Regalado. "Towards Controlled Graft Polymerization of Poly[styrene-co-(maleic anhydride)] on Functionalized Silica Mediated by Oxoammonium Bromide Salt. Facile Synthetic Pathway Using Nitroxide Chemistry". *Macromolecular Rapid Communications*, **2007**, 28, 1397-1403.