



DRA. PATRICIA PONCE PEÑA

Position: Science Teacher

Phone : Cell: 6181343710

Email: pponce@ujed.mx

Education:

Degree: Chemistry

Master: Chemistry in Organic Chemistry

PhD: Chemistry in Polymer

Postdoctoral: Hybrid and composite materials

Professional Experience:

Full-time professor, UJED

Subject Professor, UVM, UNITEC

Head of Research and Development, AZOR Group

Research Chemist, Head of Research, METAPOL

Junior researcher Owner, Group DESC

Subject Teacher, UNAM

Research lines:

Synthesis and characterization of composite and hybrid materials.

Reverse engineering of polymeric materials

Research and analysis methods materials: physicochemical, spectroscopic and chromatographic.

Molecular simulation and chemical synthesis of organic compounds and polymers.

Methods of analysis and formulation in metallic pigments for solvent based and water based systems

Selected Publications:

- P. Ponce-Peña, M.A. González-Lozano, M.A. Escobedo-Betrado, P. de Lira-Gómez, E. García-Sánchez, E. Rivera, L. Alexandrova, "Synthesis and characterization of potassium hexatitanate using boric acid as the flux", *Ceramics International* DOI: 10.1016/j.ceramint.2015.04.093 04/**2015**.
- Patricia Ponce-Peña, Edgar López-Chipres, Edgar García-Sánchez, Miguel Angel Escobedo-Bretado, Brenda Xiomara Ochoa-Salazar, María Azucena González-Lozano, "Optimized Design of an ECAP Die Using the Finite Element Method for Obtaining Nanostructured Materials", *Advances in Materials Science and Engineering*, 10.1155/2015/702548, DOI:10.1155/**2015**/702548
- Tonatiuh García, M. Pilar Carreón Castro, Adriana Gelover Santiago, Patricia Ponce, Margarita Romero, Ernesto Rivera, "Synthesis and Characterization of novel amphiphilic



azo-polymers bearing well-defined oligo (ethylene glycol) spacers”, *Designed Monomers and Polymers*, 15, **2012**, págs. 159-174, ISSN: 1385-772X.

- Ponce P., Fomina L., Garcia P., Fomine S., “1-Amino-4,5,8-naphthalene-tricarboxylic acid-1,8-lactam-4,5-imide-containing macrocycles: synthesis, molecular modelling and polymerization”, *Polymer International*, 52, **2003**, págs. 1454-1461. ISSN: 0959-8103.

Directed thesis:

Graduates: 13 degree by Thesis 7 undergraduate degree otherwise.

In Process:

Degree Subject: Evaluation of antibacterial plastic membranes pineapple juice fermentation.

Degree Subject: Biosynthesis of cellulose by Acetobacter, modifying the conditions of oxygenation.

Bachelor Topic: Evaluation of composite panels to develop type W-based cellulosic materials recycled.

Bachelor Topic: Manual 2 polymers practices.