

**Juan C. Noveron, Ph.D.**  
Associate Professor of Chemistry

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### Education

California State University Long Beach	Chemistry	B.A.	1994
University of California Santa Cruz	Chemistry	Ph.D.	2000
University of Utah	Chemistry	Postdoc.	2000-3

### Appointments

2014-present	Provost's Faculty Fellow-in-Residence at the Office of Undergraduate Studies
2009-present	Associate Professor, Department of Chemistry, University of Texas at El Paso
2003-2008	Assistant Professor, Department of Chemistry, University of Texas at El Paso
2000-2003	NIH Postdoctoral Fellow, University of Utah
1997-2000	GAANN Fellow, Department of Chemistry, University of California Santa Cruz
1994-1997	Graduate Assistant, Department of Chemistry, University of California Santa Cruz
1991-1993	Research Fellow, Department of Chemistry, California State University Long Beach

### Honors and Awards

2013	UTEP COURI Faculty Mentor with the Most Student Posters Presented
2009	UT Regents' Outstanding Teaching Award
2008	National Science Foundation CAREER Award
2000	National Institute of Health Postdoctoral Fellowship
1998	Distinguished Service Award, University of California Santa Cruz
1997	US Department of Education GAANN Fellowship
1991	MARC/MBRS NIH Undergraduate Fellowship

### Courses Taught

General Chemistry I and II, CHEM1305-6  
Inorganic Chemistry, CHEM 4365  
Contemporary Topics in Chemistry, CHEM 5301 (For High School Science Teachers)  
Advanced Inorganic Chemistry, CHEM 6361

### Synergistic Activities

1. Faculty mentor of Peer-led Team Learning Activities that Enhance Learning and Retention in General Chemistry: Train and mentor 15 - 20 advanced undergraduates students twice a week to serve as Peer Leaders of General Chemistry.
2. Training of High School Science Teachers: Teach a graduate level class designed for high school science teachers who are enrolled in the Masters of Arts in Science Teaching program at UTEP. Coordinate experiential learning lab-activities for the teachers beyond the classroom.
3. Member of UTEP's Intellectual Property Committee. Review the technical merits of provisional patent applications on behalf of the university.
4. Former Member of the Undergraduate Curriculum Committee in Chemistry. Reviewed issues related to the undergraduate curriculum in chemistry.
5. Provost's Faculty Fellow at the Office of Undergraduate Studies. Member of a team focused on improving the University Honors Program at UTEP.

## Collaborators and Affiliations

### External Collaborators

Delia Valles, Department of Industrial Engineering, New Mexico State University  
Thuc-Quyen Nguyen, Department of Chemistry, University of California Santa Barbara  
Michael Chabinyk, Department of Chemistry, University of California Santa Barbara  
Young Park, Department of Mechanical & Aerospace Engineering, New Mexico State University  
George Negrete, Department of Chemistry, University of Texas at San Antonio  
Alejandro Bugarin, Department of Chemistry, University of Texas at Arlington  
David Summers, Astrobiology Division, NASA Ames Research Center  
Kevin Baker, US Department of Agriculture, Agricultural Service Center  
Tanja Prietaß, Department of Chemistry, New Mexico Institute of Mining and Technology

### Internal Collaborators

James Becvar, Department of Chemistry  
Luis Echegoyen, Department of Chemistry  
Ricardo Bernal, Department of Chemistry  
Jorge Gardea-Torresdey, Department of Chemistry  
Renato Aguilera, Department of Biological Sciences  
Ruben Rosas-Acosta, Department of Biological Sciences  
Delfina Dominguez, Clinical Lab Sciences  
Rodrigo Armijos, Department of Public Health  
Tunna Baruah, Department of Physics  
Heidi Taboada, Department of Industrial, Manufacture, and Systems Engineering  
Ramana Chintalapalle, Department of Mechanical Engineering  
Ryan Wicker, Department of Mechanical Engineering  
Gary Williams, Center for Research Entrepreneurship and Innovative Enterprises  
Donna Ekal, Associate Provost of Undergraduate Studies  
John Wiebe, Associate Provost, Department of Psychology  
Irma Montelongo, Chicano Studies

### Former Graduate and Postdoctoral Mentors

Graduate Mentor: Pradip K. Mascharak, Professor of Chemistry, University of California Santa Cruz  
Postdoctoral Mentor: Peter J. Stang, Distinguished Professor of Chemistry, University of Utah

### Graduate Students Mentored

*Brenda Porta-Linnell, Ph.D.*, Asst. Prof., Dept. of Bio., Chem., & Env. Sci. Northern New Mex. College  
*Itzia Cruz-Arroyo, Ph.D.*, Research Scientist, MERK Co.  
*Alejandro Bugarin, Ph.D.* Asst. Prof. Dept. of Chemistry, University of Texas at Arlington  
*Nazario Lopez, Ph.D.*, Postdoctoral Associate, Massachusetts Institute of Technology  
*Maria Martinez, M.S.*, Research Scientist, DELPHI Co.  
*Robert Moreno, M.S.*, Lecturer, El Paso Community College  
*Fabiola Cruz, M.S.*  
*Hugo Alarcon, M.S.*, Lecturer, El Paso Community College  
*Luis Andujo, M.S.*, Research Scientist, ALLERGAN Co.  
*Gabriel Gonzalez, M.S.*, Doctoral student in MASE at UTEP and Lecturer, El Paso Community College  
*Sarit Pal, M.S.*, Doctoral student at Texas A&M School of Medicine  
*Alejandro Arzola, M.S.*, Lecturer, Universidad Autónoma de Chihuahua  
*Eric Valenzuela, M.S.*, Lecturer, El Paso Community College  
*Clarissa S. Gomez M.S.*, Lecturer, El Paso Community College  
*Julio Padilla (4<sup>th</sup> Y doctoral)*  
*Tariqul Islam (2<sup>nd</sup> Y doctoral)*  
*Noemi Dominguez (1<sup>th</sup> Y doctoral)*

Undergraduate Students Mentored in Chemistry Research (students funded \*)

<i>Chris Lung</i>	<i>Brian Barraza*</i>	<i>Ruben Casillas*</i>
<i>Lynn Santiago*</i>	<i>Jacob Prat</i>	<i>Luis Andujo*</i>
<i>Marino Resendiz*</i>	<i>Bruce Saenz*</i>	<i>Eric Valenzuela*</i>
<i>Michael Helgesen*</i>	<i>Rudy Acosta*</i>	<i>Melissa Salinas*</i>
<i>Leo Rodriguez*</i>	<i>Lance Park (UCSB)*</i>	<i>Hugo Alarcon*</i>
<i>Nadine Bualle*</i>	<i>Humberto Rojo*</i>	<i>Audrey Lacerte</i>
<i>Ramon Castro</i>	<i>Gustavo Rodriguez</i>	<i>Viridiana Saenz*</i>
<i>Miguel Algara*</i>	<i>James Moore*</i>	<i>Gabriel Salazar*</i>
<i>Melissa Marrufo*</i>	<i>Araceli Jimenez*</i>	<i>Ellis Cameron</i>
<i>Ember Sorodosky*</i>	<i>Jose Marin*</i>	<i>Rosaura Chapina</i>
<i>Andy Chavez*</i>	<i>Abril Ramirez*</i>	<i>Carlos L. Saenz</i>
<i>Eduardo Chaib*</i>	<i>Alejandro Ortega*</i>	<i>Jacobo Garcia</i>
<i>Eunice Huerta</i>	<i>David Barajas*</i>	<i>Isaac Torres*</i>
<i>Luis Aguirre</i>	<i>Jimena Aguirre*</i>	<i>Alma Miramontes*</i>
<i>Juan Sanchez*</i>	<i>Andres Belmont*</i>	<i>Victoria Loya*</i>
<i>Shokooh Bahadorzadeh*</i>	<i>Andrew Mitchell *</i>	<i>Alberto Guerreo</i>
<i>Erica Rodarte*</i>	<i>Benjamin Deutch*</i>	<i>Leonel Barreda*</i>

**Current Funded Projects**

Role	Agency	Funded Amount	Effective Dates	Project Title
Principal Investigator	NSF CAREER / CURRENT	\$ 595,000	9/01/08 – 12/31/14	CAREER: Metal-mediated Supramolecular Materials in Water: Towards Programmable Molecular Complexity with DNA-delivery Functions
Role: Co-Principal Investigator PI: Dr. Heidi Taboada	US Department of Agriculture / CURRENT	\$ 3,200,000	9/01/11 – 8/31/15	BGREEN - BuildinG a Regional Energy and Educational Network: A Partnership to Integrate Efforts and Collaboration to Shape Tomorrow's Sustainable Energy Leaders
Role: Co-Principal Investigator PI: Dr. Ricardo Bernal	NSF MRI /CURRENT	\$ 1,259,954	9/01/09- 8/31/12	MRI: Acquisition of a Field Emission Gun Transmission Electron Microscope for Biological Structure Determination
Role: Co-Principal Investigator PI: Dr. Luis Echegoyen	NSF MRI /CURRENT	\$ 225,035	9/01/12 - 8/31/15	MRI: Acquisition of an Electron Paramagnetic Resonance (EPR) Spectrometer for Research and Education in Chemistry and Physics
Role: Co-Principal Investigator PI: Dr. Luis Echegoyen	NSF / CURRENT	\$ 3,300,000	6/1/12 – 6/1/17	UTEP/UCSB Partnerships for Research and Education in Materials (PREM)
Role: Principal Investigator Co-PI: Dr. Heidi Taboada	US Department of Agriculture / CURRENT	\$ 999,790	9/1/14 – 8/31/18	I-Discover: Collaborative Integration of USDA-Research in the Advanced Teaching Laboratories of STEAM to Accelerate Time-critical Research while Increasing Student Recruitment, Retention, and Professional Competencies

## Peer-reviewed Publications

- Torres, I.; Resendiz, M.; Arif, A.; Metta-Magaña, A.; Phan, H.; Nguyen T.; Noveron, J. **Anion-directed Supramolecular Networks of Silver (I) N-(4-pyridyl) Benzamide and Their Band Gap Tunability.** *Crystal Growth & Design*, **2014**, submitted 12/14/14.
- Bugarin, A.; Martinez, L.; Cooke, P.; Islam, T.; Noveron, J. **Solid-phase organic synthesis of 2-tridecanyl-1,4-naphthoquinone and 2-tridecanyl-1,4-naphthodiol that form redox-active micelles and vesicles.** *Bioorg. Chem.* **2014**, *56*, 62 – 66.
- Padilla, J.; Calderon, F.J.; Acosta-Martinez, V.; Pelt, S.V.; Gardner, T.; Baddock, M.; Zobeck, T.M.; Noveron, J.C. **Diffuse-reflectance mid-infrared spectroscopy reveals chemical differences in soil organic matter carried in different size wind eroded sediments.** *Aeolian Research*, **2014**, *15*, 193 – 201.
- Pietraß, T., Campa- Cruz, I., Kombarakkaran, J., Suman, S. Atta, A.M.; Noveron, J. **Hydrogen Physisorption in a Cu(II) Metallacycle.** *J. Physical Chemistry C*, **2010**, *114*, 21371-2137.
- Kombarakkaran, J.; Helgesen, M.; Shen, K.; Pietraß, T.; Noveron, J.C. **Hydrogen Storage in Dinuclear Pt(II) Metallacycles.** *Intern. J. Hydrogen Energy*, **2009**, *34*, 5704-5709.
- Escalera, G.; Martinez-Ortega, M.; Metta, A.; Rodriguez, I.; Valles, D.; Noveron, J. **Metal-Organic Biopolymers: SelfAssembly and Thermoplastic Properties.** Conference Proceedings. *Polymers Preprints*, **2009**, *50*(1), 530.
- Barreda, L.; Porta, B.; Noveron, J. **DNA-templated Polymerization of Styrene Derivatives in Water: New Nanomaterial Composites.** Conference Proceedings. *Polymers Preprints*, **2009**, *50*(1), 362.
- Summers, D.; Noveron J.C.; Basa, R.C. **Energy Transduction Inside of Amphiphilic Vesicles.** *Orig. Life. Evol. Biosph.*, **2009**; *39*, 127 - 140.
- Porta, B.; Khamsi, J.; Noveron, J.C. **Metallomesogens: Supramolecular Design via Alkylrich Metal Complexes.** *Current Organic Chemistry*, **2008**, *12*, 1298 - 1321.
- Mukherjee, Partha S.; Lopez, N. Arif, A. M.; Cervantes-Lee, F.; Noveron J.C. **Single-crystal to single-crystal phase transitions of bis(N-phenylisonicotinamide)silver(I) nitrate reveal cooperativity properties in porous molecular materials.** *Chem. Commun.*, **2007**, 1433 - 1435.
- Campa-Cruz, I.; Arzola, A.; Santiago, L.; Parson, J. G.; Varela-Ramirez, A.; Aguilera, R.; Noveron J.C. **A novel class of metal-directed supramolecular DNA-delivery systems.** *Chem. Commun.*, **2007**, 2944 -2946.
- Lopez, N.; Vos, T. E.; Arif, A. M.; Miller, J. S.; Noveron, J.C. **Structure and Magnetic Properties of a Hydroxo-Bridged Copper(II) Distorted Cubane Stabilized via**

**Supramolecular Hydrogen Bonding with an Ionic Hexafluoroacetylacetonate.** *Inorg. Chem.*, **2006**; *45*, 4325 - 4327.

- Chatterjee, B.; Noveron, J. C.; Lopez, N.; Resendiz, M.; Parker, D.; Cinke, M.; Nguyen, C. V.; Arif, A. M.; Stang, P. J. **Self-Assembly of Flexible Supramolecular Metallacyclic Ensembles: Structure and Sorption Properties of Their Nanoporous Crystalline Frameworks.** *J. Am. Chem. Soc.*, **2004**; *126*, 10645-10657.
- Resendiz, M.; Noveron, J. C.; Stang, P. J.; **A Supramolecular Optical Sensor for Ni(II), Cr(II), and Cd(II).** *Org. Lett.*, **2003**; *6*, 651 - 653.
- Noveron, J.C.; Chatterjee, B.; Arif, A. M.; Stang, P. J.; **Thermally Stable Nanoporous Structures from the Self-assembly of N-(4-pyridyl)benzamide and Mn(II) Salts.** *J. Phys. Org. Chem.*, **2003**; *16*, 420 - 425.
- Noveron, J. C.; Arif, A. M.; Stang, P. J.; **Optical Sensing of Small Hydroxyl-Containing Molecules in New Crystalline Lamellar Arrays of Co(II) and N-(4-Pyridyl)benzamide,** *Chem. Mater.*, **2003**, *15*, 372-374.
- Tyler, L. A.; Noveron, J. C.; Olmstead, M. M.; Mascharak, P. K. **Modulation of the pK<sub>a</sub> of Metal-Bound Water via Oxidation of Thiolato Sulfur in Model Complexes of Co(III) Containing Nitrile Hydratase: Insight into Possible Effect of Cysteine Oxidation in Co-Nitrile Hydratase.** *Inorg. Chem.*, **2003**, *42*, 5751-5761.
- Noveron, J.C.; Lah, M. S.; Del Sesto, R. E.; Arif, A. M.; Miller, J. S.; Stang, P. J.; **Engineering the Structure and Magnetic Properties of Crystalline Solids via the Metal-Directed Self-Assembly of a Versatile Molecular Building Unit.** *J. Am. Chem. Soc.*, **2002**; *124*, 6613 - 6625.
- Noveron, J. C.; Olmstead, M. M.; Mascharak, P. K.; **A Synthetic Analogue of the Active Site of Fe-Containing Nitrile Hydratase with Carboxamido N and Thiolato S as Donors: Synthesis, Structure, and Reactivities.** *J. Am. Chem. Soc.*, **2001**; *123*(14); 3247-3259.
- Tyler, L. A.; Noveron, J. C.; Olmstead, M. M.; Mascharak, P. K.; **Co(III) Complexes with Coordinated Carboxamido Nitrogens and Thiolato Sulfurs as Models for Co-Containing Nitrile Hydratase and Their Conversion to the Corresponding Sulfinato Species.** *Inorg. Chem.*, **2000**; *39*(2); 357-362.
- Tyler, L. A.; Noveron, J. C.; Olmstead, M. M.; Mascharak, P. K.; **Oxidation of Metal-Bound Thiolato Sulfur Centers in Fe(III) and Co(III) Complexes with Carboxamido Nitrogens and Thiolato Sulfurs as Donors: Relevance to the Active Sites of Nitrile Hydratases.** *Inorg. Chem.*, **1999**; *38*(4); 616-617.
- Noveron, J. C.; Olmstead, M. M.; Mascharak, P. K.; **Co(III) Complexes with Carboxamido N and Thiolato S Donor Centers: Models for the Active Site of Co-Containing Nitrile Hydratases.** *J. Am. Chem. Soc.*, **1999**; *121*(14); 3553-3554.

- Noveron, J.C.; Herradora, R.; Olmstead M. M.; Mascharak, P. K.; **Low-spin iron(III) complexes with N,S coordination: syntheses, structures, and properties of bis(*N*-2-mercaptophenyl-2'-pyridylmethyleniminato)iron(III) tetrphenylborate and bis(*N*-2-mercapto-2-methylpropyl-2'-pyridylmethyleniminato)iron(III) tetrphenylborate.** *Inorg. Chim. Acta*, **1999**; 285 (2); 269-276.

### Provisional Patents Pending

- Miguel Algara, Juan Noveron. 2014. **Metallic Nanoparticles in Hydrogels for Arsenic Removal from Water.** A novel technique for synthesizing anisotropic nanoparticles with high surface area and reactivity against arsenate embedded in hydrogels was invented. The nanoparticles can be used to remove arsenate salts from water.
- Hugo Alarcon, Juan Noveron. 2014. **Carbon Nanotubes-DNA Hybrid Materials for Rapid Gene Sensor Applications.** A novel material that forms gels upon sequence-specific reactions and can be used to detect targeted gene sequences at nanomolar concentrations as invented.
- Ben Deutch, Julio Padilla, Juan Noveron. 2014. **Single Crystals with Dynamic Water Channels for Low-pressure Desalination Technologies.** A novel material family that translocates water between solid-state phases using lattice cooperativity properties at low pressures was invented.
- Shakoo Bahadorzadeh, Juan Noveron. 2014. **3-D Printable Materials with Water-triggered Drug Release Properties.** A novel material that can form 3-D printable gels via UV-stereolithography with the property to adsorb organic molecules and release them upon exposure to nanomolar concentrations of water was invented.

### Conference Abstracts

- Phenyl-functionalized cotton-carbon nanotube composites: synthesis, characterization, and adsorption properties. Julio Padilla, Humberto Rojo, Kevin Baker, Delia Valles, Juan Noveron. *National Agri-science Education Conference, Miami, FL, Nov 18-22, 2014.*
- Transparent low-band gap films via supramolecular silver (I) bis-*N*-(4-pyridyl)-benzamide complexes. Isaac Torres, Juan Noveron. *SACNAS National Conference, Los Angeles, CA Oct 16, 2014.*
- Metal-mediated anchoring of [6,6]-phenyl-C61-butyrate to gold nanoparticles. Julio Padilla, Md. Islam, Ember Sorodosky, Juan Noveron. *SACNAS National Conference, Los Angeles, CA Oct 16, 2014.*
- Surface functionalization of cotton cellulose with benzoyl chloride and its applications for the adsorption of aromatic pollutants. Humberto Rojo, Julio Padilla, Juan Noveron. *SACNAS National Conference, Los Angeles, CA Oct 16, 2014.*

- Surface functionalization of cotton cellulose with benzoyl chloride and its applications for the adsorption of aromatic pollutants. Humberto Rojo, Julio Padilla, Juan Noveron. *New Mexico AMP Conference, Las Cruces, NM*, Oct 3, **2014**.
- Use of Cu nanoparticle gels for removal of arsenic. Miguel Algara, Juan C. Noveron. *COURI Summer Symposium, University of Texas at El Paso*, August 2, **2014**.
- Surface functionalization of cotton cellulose with benzoyl chloride and its applications for the adsorption of aromatic pollutants. Humberto Rojo, Julio Padilla, Juan Noveron. *4th Annual COURI Symposium Showcasing Emerging Researchers, Scholars and Artists, University of Texas at El Paso*, April 25, **2014**.
- Transparent low-band gap films via self-organized silver (I) bis-N-(4-pyridyl)-benzamide complexes. Isaac Torres, Juan Noveron. *4th Annual COURI Symposium Showcasing Emerging Researchers, Scholars and Artists, University of Texas at El Paso*, April 25, **2014**.
- Nanomaterials via DNA-templated photopolymerization of Zn (II) bis-N-(4-pyridyl) benzamide acrylate. Melissa Marrufo, Shokooh Bahadorzadeh, Alejandro Metta, Juan Noveron, *COURI Summer Symposium, University of Texas at El Paso*, August 3, **2013**.
- Single-molecule metallo-micelles with fullerene-binding cores. Andrew Mitchell, Md Islam, Brian Barraza, Juan Noveron, *COURI Summer Symposium, University of Texas at El Paso*, August 3, **2013**.
- Solar cells with self-organized components: novel amphiphilic PCBM Zn(II) complexes. Andres Belmont, Venkata Neti, Luis Echegoyen, Juan Noveron, *COURI Summer Symposium, University of Texas at El Paso*, August 3, **2013**.
- Novel biodegradable inks for 3-D printing. Andrew Chavez, James Moore, Brian Barraza, Juan Sanchez, Ryan Wicker, Juan Noveron, *COURI Summer Symposium, University of Texas at El Paso*, August 3, **2013**.
- Single-molecule fullerene metallo-micelles. Brian Barraza, Md Islam, Juan Noveron, *COURI Summer Symposium, University of Texas at El Paso*, August 3, **2013**.
- Self-organized single-molecule flowers: Towards controlling fullerene aggregation for solar cells. Ember Sikorski, James Moore, Juan Noveron. *COURI Summer Symposium, University of Texas at El Paso*, August 3, **2013**.
- Novel biomass conversion to solar cell products. Lance Park, Delia Valles, Juan C. Noveron. *COURI Summer Symposium, University of Texas at El Paso*, August 3, **2013**.
- Novel fullerene-binding gels: synthesis and characterization of Zn(II) bis-N-(4-pyridyl) benzamide acrylate complex and studies of its fullerene-binding properties. Shokooh Bahadorzadeh, Melissa Marrufo, Alejandro Metta, Juan Noveron. *COURI Summer Symposium, University of Texas at El Paso*, August 3, **2013**.

- Novel functional polymers via DNA-templated photopolymerization of zinc (II) 1,4,7,10-tetracyclene acrylate nitrate complexes. Rudy Acosta, Alejandro Metta, Juan Noveron. *3<sup>rd</sup> Annual Showcasing Emerging Researchers at the Forefront of Science, Engineering, Health Sciences and Nursing, University of Texas at El Paso*, April 20, **2013**.
- Temperature-responsive nano-architectures from Zinc (II) bis and tris-carboxylate amphiphilic coordination polymers. Brian Barraza, Md. Islam, Juan Noveron. *3<sup>rd</sup> Annual Showcasing Emerging Researchers at the Forefront of Science, Engineering, Health Sciences and Nursing, University of Texas at El Paso*, April 20, **2013**.
- Supramolecular assembly of DNA templated fullerene photovoltaic polymers Juan Sanchez, Mireya Perez, Ryan Wicker, Juan Noveron. *3<sup>rd</sup> Annual Showcasing Emerging Researchers at the Forefront of Science, Engineering, Health Sciences and Nursing, University of Texas at El Paso*, April 20, **2013**.
- Towards printable solar cells: synthesis, characterization, and physical chemical properties of a Zn(II) bis-N-(4-pyridyl) benzamide acrylate complex that binds fullerenes. Melissa Marrufo, Shokooh Bahadorzadeh, Juan Sanchez, Juan Noveron. *3<sup>rd</sup> Annual Showcasing Emerging Researchers at the Forefront of Science, Engineering, Health Sciences and Nursing, University of Texas at El Paso*, April 20, **2013**.
- Novel molecular tweezers for fullerenes: towards self assembly of photovoltaic supramolecular layers. Ember Sikorski, Melissa Marrufo, Juan Noveron. *3<sup>rd</sup> Annual Showcasing Emerging Researchers at the Forefront of Science, Engineering, Health Sciences and Nursing, University of Texas at El Paso*, April 20, **2013**.
- DNA-Templated Photopolymerization of Bromo Hydrocarbon Acrylate. Bruce Saenz, Juan Noveron. *3<sup>rd</sup> Annual Showcasing Emerging Researchers at the Forefront of Science, Engineering, Health Sciences and Nursing, University of Texas at El Paso*, April 20, **2013**.
- 3-D printable photovoltaic materials: Photo-polymerizable tweezers for fullerenes. Juan Sánchez, Melissa Marrufo, Shakoo Bahadorzadeh, Ryan Wicker, Michael Chabiny, and Juan C. Noverón, *3<sup>rd</sup> Annual Showcasing Emerging Researchers at the Forefront of Science, Engineering, Health Sciences and Nursing, University of Texas at El Paso*, April 20, **2013**.
- Self-assembly of Fullerene Gemini Surfactants in Solid-solutions. Juan Sánchez, Ping Peng, Juan C. Noveron, Michael Chabiny, Luis Echegoyen, *3<sup>rd</sup> Annual Showcasing Emerging Researchers at the Forefront of Science, Engineering, Health Sciences and Nursing, University of Texas at El Paso*, April 20, **2013**.
- DNA-inks for 3-D Printing: DNA Composites for the Rapid Prototyping of Scaffold in Bioengineering Applications. Jimena Aguirre, Juan Sánchez, Mireya Perez, Ryan Wicker, Juan C. Noveron, *COURI Symposium of Undergraduate Research, University of Texas at El Paso*, April 15, **2011**.

- Novel Nanostructures Using Gold-Nanoparticles and Coordinating Copolymers. Ruben Casillas, Brenda Porta and Juan C. Noveron. *Inorganic Chemistry. 239th American Chemical Society National Meeting, Conference Paper. San Francisco, CA. March 21, 2010.*
- Unscrambling the Numbers: A Peer-Led Team Learning Activity. Lucia Chacon, James Becvar, Wen-Yee Lee, and Juan C. Noveron. *Chemical Education. 239th American Chemical Society National Meeting, Conference Paper. San Francisco, CA. March 21, 2010.*
- Development of a Novel Metallo-Lipid Microparticle Delivery System for a Leishmania mexicana Vaccine. Valencia J., Armijos R.X., Noveron, J., Gomez, C., Rodarte, R. *SACNAS National Conference. Dallas, Texas, October 15-18, 2009.*
- In vivo delivery of DNA vaccine using metallo-lipid nanoparticles. Gomez, C., Cervantes, M., Armijos, R.; Noveron J. *SACNAS National Conference. Dallas, Texas, October 15-18, 2009.*
- Recombinant vaccine for Leishmania mexicana. Cervantes, M., Gomez, C., Armijos, R., Noveron J. *SACNAS National Conference. Dallas, Texas, October 15-18, 2009.*
- Development of a novel metallo-lipid microparticle delivery system for a leishmania mexicana vaccine. Rodrigo Armijos, Hugo Alarcon, Clarissa Gomez, Rosina Rodarte, Juan Noveron. *Proceedings, 12th World Congress on Public Health, Istanbul, Turkey, 2009.*
- In-vivo delivery of DNA vaccines using metallo-lipid nanoparticles. Clarissa Gomez; Rodrigo Armijos, R.; Mary Weigel; Rosina Rodarte; Juan Noveron. *Proceedings, 67th Annual Meeting U.S.-Mexico Border Health Association, 2009.*
- DNA vaccine against *Leishmania mexicana* using metal ligand complexes as a drug delivery system. Valencia J, Rodarte R, Gomez CS, Armijos RX, Noveron, J. *Proceedings, 67th Annual Meeting U.S.-Mexico Border Health Association, 2009.*
- Lipid-Coordination-Polymers that Self-Organize into Toroids in Water And Exhibit Gene-Delivery Properties. Alejandro Arzola and Juan C. Noveron. *Inorganic Chemistry. 237th American Chemical Society National Meeting, Salt lake City, UT, March 23, 2009.*
- Production of a Virtual College Memory Repository in a Peer-Led Team-Learning Environment. Alberto Guerrero and Juan C. Noveron. *Chemical Education. 237th American Chemical Society National Meeting, Salt lake City, UT, March 23, 2009.*
- Collective Virtual Notebooks: A New Approach to Knowledge Content Integration in a Peer-Led Team Learning Environment. Victoria Loya and Juan C. Noveron. *Chemical Education. 237th American Chemical Society National Meeting, Salt lake City, UT, March 23, 2009.*

- On Implementing Virtual Office Hours in a Large Class That Uses the Peer-Led Team-Learning Model. Alma Miramontes and Juan C. Noveron. *Chemical Education*. 237th American Chemical Society National Meeting, Salt lake City, UT, March 23, **2009**.
- Lipid-coordination-polymers that self-organize into toroids in water and exhibit gene-delivery properties. Alejandro Arzola, Armando Varela-Ramirez, , Renato Aguilera, Alejandro Metta, and Juan C. Noveron. *Fundamental Research in Colloid and Surface Chemistry*. 237th American Chemical Society National Meeting, Salt lake City, UT. March 23, **2009**.
- DNA-templated polymerization of styrene derivatives in water: New nanomaterial composites. Polymerization in Nanostructured and Nanocomposite Systems. Leonel Barreda, and Juan C Noveron, 237<sup>th</sup> American Chemical Society National Meeting, Salt lake City, UT, March 23, **2009**.
- Discrete and extended metal-organic networks with lipid components. Luis Andujo, Brenda Porta, Alma Miramontes, Brian Northrop, Peter J. Stang, Juan C. Noveron. Undergraduate Research at the Frontiers of Inorganic Chemistry. 237<sup>th</sup> American Chemical Society National Meeting, Salt lake City, UT, March 23, **2009**.
- Designed metallo-lipids for DNA-delivery into eukaryotic cells. Arzola, Alejandro; Cruz-Campa, Itzia; Alarcon, Hugo; Jimenez, Araceli; Noveron, Juan C. *Inorganic Chemistry*, 236<sup>th</sup> American Chemical Society National Meeting, Philadelphia, PA, United States, August 17-21, **2008**.
- Deuterium adsorption in microporous self-assembled dinuclear metal-organic framework material. Kombarakkaran, Justine; Pietrass, Tanja; Cruz-Campa, Itzia; Noveron, Juan C.; Arif, Atta M. *Inorganic Chemistry*, 235<sup>th</sup> American Chemical Society National Meeting, New Orleans, LA, April 6-10, **2008**.
- Designed metallo-lipids for DNA-delivery into eukaryotic cells. Arzola, Alejandro; Cruz-Campa, Itzia; Alarcon, Hugo; Jimenez, Araceli; Noveron, Juan C. *Inorganic Chemistry*, 234<sup>th</sup> American Chemical Society National Meeting, Boston, MA, August 19-23, **2007**.
- Synthesis and characterization of lyotropic platinum complexes. Cruz Sanchez, Fabiola A.; Noveron, Juan C. *Inorganic Chemistry*, 233<sup>rd</sup> American Chemical Society National Meeting, Chicago, IL, United States, March 25-29, **2007**.
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