Guillermo Carlos Bazan

Departments of Materials and Chemistry & Biochemistry

University of California

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# EDUCATION

 California Institute of Technology, Pasadena, CA

 Postdoctoral Fellow, November 1990- May 1992

 Professor John E. Bercaw

 Massachusetts Institute of Technology, Cambridge, MA

 Ph.D. awarded in Inorganic Chemistry, February 1991

 Professor Richard R. Schrock, Thesis Advisor

 University of Ottawa, Ottawa, Canada

 B. Sc. (Honors) awarded in Chemistry (Summa Cum Laude),

 October 1986

# PROFESSIONAL EXPERIENCE

 2000- Director, Center for Polymers and Organic Solids, University of California,

 Santa Barbara

 1999- Professor, Department of Materials, University of California,

 Santa Barbara

 1998- Professor, Department of Chemistry & Biochemistry, University of California, Santa Barbara

 1997-98 Associate Professor, Department of Chemistry, University of Rochester

 1992-97 Assistant Professor, Department of Chemistry, University of Rochester

# AWARDS and RECOGNITIONS

Top 50 Material Scientists by Citation and Impact, Thompson Reuters, 2011

*Macromolecules* Advisory Board, 2009

Professor of the Chang Jiang Scholars Professor, 2009

*Advanced Materials* Editorial Advisory Board, 2008

Fellow of the American Association for the Advancement of Science, 2007

American Chemical Society Cope Scholar Award, 2006

Bessel Award, Humboldt Foundation, 2005

NSF Special Creativity Award, 2003

Union Carbide Innovation Award, 1999

 Union Carbide Innovation Award, 1998

Closs Lecturer, University of Chicago, 1997

 Camille and Henry Dreyfus Teacher-Scholar Award, 1996-1998

 Sloan Research Fellow Award, 1996-1998

 NSF CAREER Award, 1995-1998

Dreyfus New Faculty Award, 1992-1993

NSERCC Postdoctoral Fellowship, November 1990-May 1992

NSERCC 1967 Science and Engineering Scholarship, September 1986-June 1990

# RESEARCH INTERESTS

 Synthesis of organic molecules with architectures that optimize optoelectronic performance. Understanding the electronic delocalization between organic chromophores in the solid state. Transmembrane agents that facilitate electron transfer and enable incorporation of microorganisms into bioelectronic devices. Oligomerization and polymerization reactions of olefins by using well-defined organometallic catalysts.

# INVITED LECTURES

Tantalum-Based Metallocene Catalysts, International Business Forum on Specialty Polyolefins, September 1994

Progress in Catalyst Design, Exxon Corporation, November 1994

Metallocene Mimics Using Dianionic Ligands, Union Carbide, March 1995

Metallocene Mimics Using Dianionic Ligands, Amoco, March 1995

Paracyclophane Route to PPV, The Society for Imaging Science and Technology, May 1995

Metallocene Mimics Using Dianionic Ligands, Guelph University, Ontario, Canada, May 1995

Ambivalent Complexes with Borollide Ligands, Workshop on Organometallic Chemistry, June 1995

Borollide and TBM Complexes of Tantalum, National ACS Meeting, Chicago, IL, August 1995

Boron Heterocycles: New Ligands for Early Transition Metal Catalysts, International Business Forum on Specialty Polyolefins, September 1995

Metallocene Mimics Using Dianionic Ligands, University of Western Ontario, Canada, October 1995

Paracyclophene Route to PPV, NSF Workshop on Materials Science, October 1995

Synthesis and Photophysics of Poly(paracyclophenes), NERM Meeting, "Polymer Science in Electrophotography," Rochester, NY, October 1995

Photophysics of Main-Chain Polychromophores and Conjugated Polymers, University of British Columbia, November 1995

Photophysics of Main-Chain Polychromophores and Conjugated Polymers, Xerox Corporation Missassanga, Canada, November 1995

Boron Heterocycles: New Ligands for Early Transition Metal Catalysts, University of British Columbia, January 1996

Photophysics of Main-Chain Polychromophores and Conjugated Polymers, University of Ottawa, Canada, February 1996

Boron Heterocycles: New Ligands for Early Transition Metal Catalysts, University of Syracuse, NY, February 1996

Photophysics of Main-Chain Polychromophores and Conjugated Polymers, University of Connecticut, CT, March 1996

Photophysics of Main-Chain Polychromophores and Conjugated Polymers, Mount Holyoke College, MA, March 1996

Boratabenzene Frameworks: New Supports for Polymerization Catalysts, ACS Meeting, New Orleans, LA, March 1996

Boron Heterocycles: New Ligands for Early Transition Metal Catalysts, Exxon Chemical Company, Baytown, TX, April 1996

Boron Heterocycles: New Ligands for Early Transition Metal Catalysts, DuPont Central Research and Development Station, DE, May 1996

Boron Heterocycles: New Ligands for Early Transition Metal Catalysts, University of Pennsylvania, PA, May 1996

Photophysics of Main-Chain Polychromophores and Conjugated Polymers, Office of Naval Research Review Session, May 1996

Boratabenzene Frameworks: New Supports for Polymerization Catalysts, NSF Workshop on Organometallic Chemistry, June 1996

New Ligands in Early Transition Metal Chemistry, Organometallic Gordon Conference, July 1996

Boratabenzene Frameworks: New Supports for Polymerization Catalysts, Union Carbide, Houston, TX, September 1996

Boratabenzene Frameworks: New Supports for Polymerization Catalysts, Shell Corporation, Houston, TX, September 1996

New Lithographic Methods for Conjugated Emissive Polymers, International Electro-luminescence Conference, Rochester, NY, September 1996

New Catalysts for Olefin Polymerization, SUNY-Geneseo, NY, October 1996

Boratabenzene Frameworks: New Supports for Polymerization Catalysts, University of Vermont, VT, October 1996

Boratabenzene Frameworks: New Supports for Polymerization Catalysts, University of Michigan, MI, December 1996

Boratabenzene Frameworks: New Supports for Polymerization Catalysts, University of Pittsburgh, PA, December 1996

Boratabenzene Frameworks: New Supports for Polymerization Catalysts, University of Buffalo, NY, December 1996

Photophysics of Main-Chain Polychromophores and Conjugated Polymers, SUNY-Binghamton, NY, March 1997

Interchromophore Delocalization in Organic Polymers, Closs Lecturer, University of Chicago, IL, April 1997

Microlithography Using Poly(paracyclophenes), ACS Meeting Symposium on "Colloid and Surface Chemistry of Advanced Materials: Chemistry of Photoluminescent and Electro-luminescent Polymers and Semiconductors," San Francisco, CA, April 1997

α-Olefin Production Using Boratabenzene Catalysts, Meeting Symposium on "Colloid and Surface Chemistry of Advanced Materials: Chemistry of Photoluminescent and Electro-luminescent Polymers and Semiconductors," San Francisco, CA, April 1997

Boratabenzene Frameworks: New Supports for Polymerization Catalysts, Canadian Society of Chemistry Conference, Windsor, Canada, June 1997

Boratabenzene Frameworks: New Supports for Polymerization Catalysts, New York Academy of Science, NY, June 1997

Interchromophore Delocalization in Organic Polymers, Gordon Conference on Organic Photochemistry, Newport, RI, July 1997

α-Olefin Production Using Boratabenzene Catalysts, Shell Corporation, West Hollow, TX, September 1997

α-Olefin Production Using Boratabenzene Catalysts, Dow Chemical, Freeport, TX, September 1997

α-Olefin Production Using Boratabenzene Catalysts, Chevron Chemical Corporation, Kingswood, TX, September 1997

α-Olefin Production Using Boratabenzene Catalysts, UOP, Chicago, IL, October 1997

α-Olefin Production Using Boratabenzene Catalysts, The Catalysis Group, Madrid, Spain, April 1998

α-Olefin Production Using Boratabenzene Catalysts, Schotland’s Advances on Metallocene Catalysis, Dusseldorf, Germany, April 1998

α-Olefin Production Using Boratabenzene Catalysts, Amoco Co., Chicago, IL, July 1998

Hydrogenation Mechanisms of Borollide-Tantalum Complexes, Caltech, CA, November 1998

Hydrogenation Mechanisms of Borollide-Tantalum Complexes, Harvey Mudd College, CA, November 1998

Concepts in Ordered/Disordered Organic Materials, Los Alamos National Laboratory, ICAM Workshop, December 1998

Early Transition Metal-Boratabenzene Catalysts, Wayne State University, MI, February 1999

Early Transition Metal-Boratabenzene Catalysts, University of Windsor, February 1999

Early Transition Metal-Boratabenzene Catalysts, Akzo-Nobel Research Center, Dobbs Ferry, NY, February 1999

Intramolecular Nucleophilic Attack on Coordinated Arenes: A New Route Into Boratabenzene Complexes, Equistar Corporation, Cincinnati, OH, March 1999

Concepts in Ordered/Disordered Organic Materials, Rohm and Haas, March 1999

Molecular Topology as a Means to Control Sample Morphology, Conference on Complex Adaptive Matter, Santa Fe, NM, June 1999

Design Principles for Optoelectronic Organic Materials, Science and Technology Center Conference, Rochester, NY, July 1999

Branched Polyolefin Architectures by Tandem Catalysis, University of California, Berkeley, CA, November 1999

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, University of California, Santa Cruz, CA, November 1999

Branched Polyolefin Architectures by Tandem Catalysis, Dow Chemical, Freeport, TX, December 1999

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, University of California, Los Angeles, CA, January 2000

Modeling Chromophore-Chromophore Interactions Using Paracyclophane Derivatives, Conference on Optical Probes of Conjugated Polymers and Fullerenes, Salt Lake City, UT, February 2000

New Boratabenzene Chromium(III) Catalysts for Ethylene Polymerization, American Chemical Society Convention, San Francisco, CA, April 2000

Water Soluble Conjugated Polymers for Biosensor Applications, QTL Diagnostics, Santa Fe, NM, May 2000

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, Universite de Cachan, Paris, France, June 2000

Tandem Catalysis: Coordinating the Action of Single Site Catalysts for the Production of Branched Polyethylene, Plenary Lecture at the Conference on Olefin Polymerization, Oslo, Norway, June 2000

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, Genencor Workshop, Santa Barbara, CA, July 2000.

Novel Nickel Complexes for Olefin Polymerization and Tandem Catalysis, University of California, Irvine, CA, March 2001

Novel Nickel Complexes for Olefin Polymerization and Tandem Catalysis, Exxon Chemicals, Baytown, TX, June 2001.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, University of Florida, Gainesville, FL, September 2001.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, Ciba Chemicals, New York, NY, November 2001.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, Cornell University, Ithaca, NY, December 2001.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, American Dye Source, Montreal, Canada, December 2001.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, Materials Outreach Program, University of California, Santa Barbara, CA, February 2002.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, MIT, Cambridge, MA, February 2002.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, Harvard University, Cambridge, MA, February 2002.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, International Materials Workshop, Santiago, Chile, May 2002.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, University of Pennsylvania, PA, September 2002.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, Yale University, New Haven, CT, September 2002.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, Optical Probes Conference, Venice, Italy, February 2003.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, University of California, San Diego, CA, February 2003.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, American Chemical Society Meeting, New Orleans, LA, March 2003.

Tandem Catalysis for the Production of Branched Polyethylene, American Chemical Society Meeting, New Orleans, LA, March 2003.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, Indiana University, IN, April 2003.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, University of Washington, WA, April 2003.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, Materials Research Society Meeting, San Francisco, CA, April 2003.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, University of Calgary, Canada, April 2003.

Tandem Catalysis for the Production of Branched Polyethylene, METCON Conference, Houston, TX, May 2003.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, University of Muenster, Germany, June 2003.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, Symposium on Molecular Synchronization, Yokahama, Japan, September 2003.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, Eastman Kodak, October 2003.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, International Workshop on LED Materials, Taipei, Taiwan, 2003.

Design Principles for Organic Materials with Enhanced Optoelectronic Performance, Symposium on Molecular Synchronization, Academia Sinica, Taipei, Taiwan, November 2003.

Biosensor Strategies using Light Harvesting Conjugated Polymers, Max-Planck Institute/UCSB Workshop, Santa Barbara, CA, February 2004.

Biosensor Strategies using Light Harvesting Conjugated Polymers, American Chemical Society National Meeting, Anaheim, CA, March 2004.

Biosensor Strategies using Light Harvesting Conjugated Polymers, Sixth International Symposium on Functional Pi-Electron Systems, Ithaca, NY, June 2004.

Biosensor Strategies using Light Harvesting Conjugated Polymers, Yokohama Research Center, Mitsubishi Chemical Corporation, Yokohama, Japan, September 2004.

Biosensor Strategies using Light Harvesting Conjugated Polymers, Georgia Institute of Technology, Atlanta, GA, October 2004.

Biosensor Strategies using Light Harvesting Conjugated Polymers, Whittier College, CA, December 2004.

Biosensor Strategies using Light Harvesting Conjugated Polymers, Lawrence Livermore National Laboratories, CA, February 2005.

Biosensor Strategies using Light Harvesting Conjugated Polymers, Materials Research Laboratories, CA, February 2005.

Tandem Catalysis for the Production of Branched Polyethylene, German/American Organometallic Symposium, CA, February 2005.

Biosensor Strategies using Light Harvesting Conjugated Polymers, Stanford, CA, March 2005.

Biosensor Strategies using Light Harvesting Conjugated Polymers, Institute for Advanced Materials, Fudan University, April 2005.

Biosensor Strategies using Light Harvesting Conjugated Polymers, American Physical Society Meeting, April 2005.

Biosensor Strategies using Light Harvesting Conjugated Polymers, Kyoto-US Workshop on Materials Science, May 2005.

Biosensor Strategies using Light Harvesting Conjugated Polymers, Vietnamese Academy of Sciences, Hanoi, Vietnam, May 2005.

Biosensor Strategies using Light Harvesting Conjugated Polymers, Stanford, CA, May 2005.

Biosensor Strategies using Light Harvesting Conjugated Polymers, ACS Workshop on Optoelectronic Materials, Orlando, FL, May 2005.

Biosensor Strategies using Light Harvesting Conjugated Polymers, Nanoscience Institute, Muenster, Germany, August 2005.

Biosensor Strategies using Light Harvesting Conjugated Polymers, Chemistry Department, University of Muenster, Germany, August 2005.

Biosensor Strategies using Light Harvesting Conjugated Polymers, Max-Planck Institute, Berlin, Germany, September 2005.

Biosensor Strategies using Light Harvesting Conjugated Polymers, Linkoping University, Sweden, September 2005.

Plasmon Enhanced Phosphorescent Light Emitting Diodes, Department of Energy, Washington, DC, November 2005.

Plasmon Enhanced Organic LEDs, 2005 International Chemical Congress of Pacific Basin Societies, Honolulu, HI, December 2005.

α-Iminocarboxamide Complexes: Synthesis, Mechanism and Polymerization of Olefins, 231st ACS National Meeting and Exposition, Atlanta, GA, March 2006.

Conjugated Polyelectrolytes: New Platforms for Device Fabrication and Biosensor Design, 2006 Materials Research Society Spring Meeting, San Francisco, CA, April 2006.

α-Iminocarboxamide Complexes: Synthesis, Mechanism and Polymerization of Olefins, 2006 DOE/BES Catalysis Program Meeting, Cambridge, MA, May 2006.

Conjugated Polyelectrolytes: New Materials for Biosensor Design and Device Fabrication, Pacific Southwest RCE 2nd Annual Meeting, Reno, NV, July 2006.

Conjugated Polyelectrolytes: New Materials for Biosensor Design and Device Fabrication, University of California, Irvine, CA, August, 2006.

Higher Order Polymer Architectures Containing Ethylene and Functionalized Comonomers, International Symposium on Advanced Polymers for Emerging Technologies-PSK30, Busan, Korea, October 2006.

Optical Amplification of Fluorescent Biosensors Using Light Harvesting Conjugated Polymers, Engineering Insights, University of California, Santa Barbara, CA, October 2006.

Synthesis and Design of Conjugated Polyelectrolytes, University of Rochester, Rochester, NY, October, 2006.

Synthesis and Design of Conjugated Polyelectrolytes for Biosensor Applications and Novel Device Fabrication Techniques, Tenth International Kyoto Conference on New Aspects of Organic Chemistry, Kyoto, Japan, November 2006.

Synthesis and Design of Conjugated Polyelectrolytes for Biosensor Applications and Novel Device Fabrication Techniques, Fifth International Forum on Chemistry of Functional Organic Chemicals, Tokyo, Japan, November 2006.

Synthesis and Design of Conjugated Polyelectrolytes for Biosensor Applications and Novel Device Fabrication Techniques, Chinese Academy of Sciences, Beijing, November 2006.

Synthesis and Design of Conjugated Polyelectrolytes for Biosensor Applications and Novel Device Fabrication Techniques, South China University of Technology, Guangzhou, November 2006.

Synthesis and Design of Conjugated Polyelectrolytes for Biosensor Applications and Novel Device Fabrication Techniques, International Workshop on Functional Materials, Hanoi, Vietnam, December 2006.

Synthesis and Design of Conjugated Polyelectrolytes for Biosensor Applications and Novel Device Fabrication Techniques, Symyx Technologies, Palo Alto, CA, March 2007.

Synthesis and Design of Conjugated Polyelectrolytes for Biosensor Applications and Novel Device Fabrication Techniques, GIST, Guangju, Korea, March 2007.

Synthesis and Design of Conjugated Polyelectrolytes for Biosensor Applications and Novel Device Fabrication Techniques, ACS Meeting, Chicago, IL, March 2007.

Synthesis and Design of Conjugated Polyelectrolytes for Biosensor Applications and Novel Device Fabrication Techniques, International Materials Workshop, Gramados, Brazil, April 2007.

Solution Processing of Polymer Solar Cells, American Chemical Society Conference, Boston, MA, August 2007.

Through- Space Interactions in Optoelectronic Organic Materials, American Chemical Society Conference, Boston, MA, August 2007.

Iminocarboxamide Complexes for Olefin Polymerization, Mitsubishi Chemicals Conference, Yokohama, Japan, August 2007.

Conjugated Polyelectrolytes: New Platforms for Biosensing and Optoelectrotronic Devices, General Dynamix, Santa Barbara, CA, September 2007.

Conjugated Polyelectrolytes: New Platforms for Biosensing and Optoelectrotronic Devices, South China University of Technology, Guangzhou, China, September 2007.

Kinetic Control of Bulk Heterojunction Morphologies in Plastic Solar Cells, Materials Research Society, Boston, MA, November 2007.

Conjugated Polyelectrolytes: New Platforms for Biosensing and Optoelectrotronic Devices, The International Council on Clean Transportation Conference, Taipei, Taiwan, December 2007.

Kinetic Control of Bulk Heterojunction Morphologies in Plastic Solar Cells, Workshop in Academic Sinica, Taipei, Taiwan, December 2007.

Conjugated Polyelectrolytes: New Platforms for Biosensing and Optoelectrotronic Devices, Mitsubishi Chemicals Conference, Yokohama, Japan, January 2008.

Conjugated Polyelectrolytes: New Platforms for Biosensing and Optoelectrotronic Devices, University of California, Merced, CA, March 2008.

Conjugated Polyelectrolytes: New Platforms for Biosensing and Optoelectrotronic Devices, Mitsubishi Chemicals Conference, Yokohama, Japan, March 2008.

Conjugated Polyelectrolytes: New Platforms for Biosensing and Optoelectrotronic Devices, University of Wisconsin, Madison, WI, April 2008.

Conjugated Polyelectrolytes: New Platforms for Biosensing and Optoelectrotronic Devices, University of Queens, Kingston, Canada, April 2008.

Conjugated Polyelectrolytes: New Platforms for Biosensing and Optoelectrotronic Devices, University of Cambridge, United Kingdom, April 2008.

Conjugated Polyelectrolytes: New Platforms for Biosensing and Optoelectrotronic Devices, Louisiana State University, LA, April 2008.

Conjugated Polyelectrolytes: New Platforms for Biosensing and Optoelectrotronic Devices, ONR 2008, Washington, D.C., May 2008.

Conjugated Polyelectrolytes: New Platforms for Biosensing and Optoelectrotronic Devices, University of California, Los Angeles, CA, May 2008.

New Conjugated Polyelectrolyte Materials for Biosensor Design and Device Fabrication, Chemistry Department, University of Muenster, Germany, June 2008.

New Conjugated Polyelectrolyte Materials for Biosensor Design and Device Fabrication, Nanotechnology Institute, University of Muenster, Germany, June 2008.

New Conjugated Polyelectrolyte Materials for Biosensor Design and Device Fabrication, International Conference on Science and Technology of Synthetic Metals, Porto de Galinhas, Pernambuco, Brazil, July 2008.

New Conjugated Polyelectrolyte Materials for Biosensor Design and Device Fabrication, 8th International Symposium in Functional p-Electron Systems, Graz, Austria, July 2008.

New Conjugated Polyelectrolyte Materials for Biosensor Design and Device Fabrication, Army Research Laboratories, Washington, D.C., July 2008.

New Conjugated Polyelectrolyte Materials for Biosensor Design and Device Fabrication, US-Japan POLYMAT Summit 2008, Ventura, CA, August 2008.

New Strategies for Organic Semiconductors for Optoelectronic Devices and Sensory Technologies, Los Alamos National Lab Workshop, September 2008.

New Strategies for Organic Semiconductors for Optoelectronic Devices and Sensory Technologies, Workshop on Advanced Materials Science & Nanotechnology, Vietnam, September 2008.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, Singapore, October 2008.

New Strategies for Organic Semiconductors for Optoelectronic Devices and Sensory Technologies, Mitsubishi Chemical Corporation, Yokohama, Japan, December 2008.

New Strategies for Organic Semiconductors for Optoelectronic Devices and Sensory Technologies, Institute of Bioengineering and Nanotechnology, Singapore, December 2008.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, Beijing, China, February 2009.

New Strategies for Organic Semiconductors for Optoelectronic Devices and Sensory Technologies, ICB- Army Industry Conference, Santa Barbara, CA, March 2009.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, Joint Navy Air Force Organic Hybrid Solar Cell Research Program Review Meeting, Washington, D.C., May 2009.

New Strategies for Organic Semiconductors for Optoelectronic Devices and Sensory Technologies, King Abdulaziz City for Science and Technology, Riyadh, Saudi Arabia, May 2009.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, Singapore, May 2009.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, International Conference on Optical Probes of Conjugated Polymers and Organic Nanostructures (OP-2009), Tsinghua University Campus, Beijing, China, June 2009.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, International Conference on Materials for Advanced Technologies (ICMAT 2009), Singapore, June 2009.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, Organic Microelectronics & Optoelectronics Workshop, San Francisco, CA, July 2009.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, ICB Annual Report and Institutional Proposal, Santa Barbara, CA, August 2009.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, 2009 Fall MRS Meeting, Boston, MA, November 2009.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, National University of Taiwan, Taipei, Taiwan, December 2009.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, SICC-6 Conference, Singapore, December 2009.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, University of North Carolina, Chapel Hill, NC, January 2010.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, MIT/ ICB Workshop, Boston, MA, January 2010.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, University of Hong Kong, Hong Kong, China, March 2010.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, South China University of Technology, Guangzhou, China, March 2010.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, Laval University, Laval, Canada, March 2010.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, Nanyang Technological University, Singapore, Singapore, April 2010.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, Santa Barbara Summit on Energy Efficiency Workshop, Santa Barbara, CA, May 2010.

Improved Organic Solar Cells via Morphology Control Under Kinetic Conditions and New Materials, Joint AFOSR/ ONR Organic/ Hybrid Photovoltaics Program Review, Santa Barbara, CA, June 2010.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, South China University of Technology, Guangzhou, China, June 2010.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, Kyoto, Japan, July 2010.

Conjugated Polyelectrolytes for Emerging Optoelectronic and Bioelectronic Applications, Workshop with Imperial College, Santa Barbara, CA, September 2010

Overview of the Institute of Collaborative Biotechnology Energy Research Portfolio, Santa Barbara, CA, September 2010.

Conjugated Polyelectrolytes for Emerging Optoelectronic and Bioelectronic Applications, Workshop with South China University of Technology, Guangzhou, China, October 2010.

Conjugated Polyelectrolytes for Emerging Optoelectronic and Bioelectronic Applications, Department of Chemistry, Cambridge University, United Kingdom, November 2010.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, Cavendish Laboratory, Cambridge University, United Kingdom, November 2010.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, Guanju Institute of Science and Technology, Korea, November 2010.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, Unam National Institute of Technology, Unam, Korea, November 2010.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, Materials Research Society – Fall Meeting, Boston, MA, November 2010.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, Konarka Plastic Power, Lowell, MA, November 2010.

Insight into the Synthesis, Design and Processing of Narrow Band Gap Organic Semiconducting Polymers for Solar Cell Fabrication, Pacifichem 2010 Congress, Honolulu, HI, December 2010.

Conjugated Polyelectrolytes for Emerging Optoelectronic and Bioelectronic Applications, ICB Army-Industry Collaborations Conference, Santa Barbara, CA, February 2011.

Conjugated Polyelectrolytes for Emerging Optoelectronic and Bioelectronic Applications, Materials Research Society, San Francisco, CA, April 2011.

Conjugated Polyelectrolytes for Emerging Optoelectronic and Bioelectronic Applications, Nanyang Technological University, Singapore, April 2011.

Design, Synthesis and Processing of Narrow Band Gap Organic Semiconductors for Solar Cell Fabrication, Inter-American Photochemical Conference, Mendoza, Argentina, May 2011.

Controlled Olefin Polymerization and Copolymerization to Form Novel Materials, Exxon-Mobil Research and Engineering, Annandale, NJ, June 2011.

J- and H-aggregate Behavior in Conjugated Polymers, Optical Probes of Conjugated Polymers and Organic Nanostructures Conference, Santa Fe, NM, June 2011.

Organic, Flexible, and Printed Electronics Symposium, International Conference on Materials for Advanced Technologies, Suntec, Singapore, June 2011.

Design, Synthesis and Fabrication of Organic Semiconductors for High Efficiency Solar Cells. Workshop on Emerging Materials for Thin Film Solar Cells, UCSB, UC Santa Barbara, August 2011.

Design, Synthesis and Fabrication of Organic Semiconductors for High Efficiency Solar Cells. Chemical Engineering Department, Nanyang Technological University, Singapore, August 2011.

Insight into the Synthesis, Design, and Processing of Narrow Bandgap Organic Semiconducting Polymers for Solar Cell Fabrication, Chemistry Department, University of Florida, September 2011.

Design, Synthesis and Fabrication of Organic Semiconductors for High Efficiency Solar Cells. Chemical Engineering Department, CEEM UCSB, September 2011.

Control of Interfacial Phenomena in Organic Optoelectronic Devices by Incorporation of Conjugated Polyelectrolytes, International Symposium on Functional pi-Electron Systems, Beijing, China, October 2011.

Design, Synthesis and Fabrication of Organic Semiconductors for High Efficiency Solar Cells. Materials Research Society Fall Meeting, Boston, November 2011.

Design, Synthesis and Fabrication of Organic Semiconductors for High Efficiency Solar Cells. Annual Meeting of the Chinese Chemical Society, Taipei, Taiwan, December 2011.

Design, Synthesis and Fabrication of Organic Semiconductors for High Efficiency Solar Cells. IUPAC Polymer Conference, Doha, Qatar, January 2012.

Control of Interfacial Phenomena in Organic Optoelectronic and Bioelectronic Devices by Incorporation of Conjugated Polyelectrolytes and Oligoelectrolytes, ICB Conference, Santa Barbara, California, February 2012.

Design, Synthesis and Fabrication or Organic Semiconductors for High Efficiency Solar Cells. American Chemical Society, Annual Meeting, San Diego, CA, March 2012.

Design, Synthesis and Fabrication of Organic Semiconductors for High Efficiency Solar Cells. Office of Naval Research Annual Review, March 2012.

Control of Interfacial Phenomena in Organic Optoelectronic Devices by Incorporation of Conjugated Polyelectrolytes and Oligoelectrolytes, Gordon Research Conference on Organic Electronics, Lucca, Italy, May 2012.

Control of Interfacial Phenomena in Organic Optoelectronic and Biolectronic Devices by Incorporation of Conjugated Polyelectrolytes and Oligoelectrolytes, International Union of Pure and Applied Chemistry (IUPAC) Photochemistry Conference, Coimbra, Portugal, July 2012 *(Plenary Lecture).*

Design and Synthesis of Small Molecules for the Fabrication of High Efficiency Solar Cells, 2012 Global Organic Photovoltaic Conference(GOPV2012), Suzhou Institute of Nano-Tech and Nano-bionics (SINANO), Chinese Academy of Sciences, Suzhou, China, September 2012 *(Plenary Lecture)*.

Synthesis of Small Molecules for the Solution Fabrication of Organic Solar Cells, National Science Foundation and Office of Naval Research Workshop on Key Scientific and Technological Issues for the Development of Next Generation Photovoltaics, Arlington, VA, September 2012.

Design, Synthesis and Fabrication of Organic Semiconductors for High Efficiency Solar Cells, Aseanian Conference on Dye-sensitized and Organic Solar Cells, Taipei, Taiwan, October 2012.

Design, Synthesis and Fabrication of Organic Semiconductors for High Efficiency Solar Cells. Zing Conference, Cancun, Mexico, November 2012 *(Plenary Lecture)*.

Design, Synthesis and Fabrication of Organic Semiconductors for High Efficiency Solar Cells. Materials Research Society Fall Meeting, Boston, November 2012.

Design, Synthesis and Fabrication of Organic Semiconductors for High Efficiency Solar Cells. Japan-US Symposium on Polymer Synthesis, Santa Barbara CA, December 2012.

# PATENTS (35)

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| **Patent Title** | **U.S. Patent Number** | **Date** |
| Patterned polymer electroluminescent devices based on microlithographic processes | 5,965,280 | October 12, 1999 |
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| Plasmon assisted enhancement of organic optoelectronic devices | 6,999,222 | February 14, 2006 |
| Water-soluble distyrylbenzene chromophores for applications in optoelectronic technologies | 7,094,929 | August 22, 2006 |
| Conformationally flexible cationic conjugated polymers | 7,144,950 | December 5, 2006 |
| Methods and compositions for detection and analysis of polynucleotides using light harvesting multichromophores | 7,214,489 | May 8, 2007 |
| Paracyclophane molecules for two-photon absorption applications | 7,232,913 | June 19, 2007 |
| Metal catalyst for olefin polymerization and co-polymerization with functional monomers | 7,259,214 | August 21, 2007 |
| Methods and compositions for detection and analysis of polynucleotides using light harvesting multichromophores | 7,270,956 | September 18, 2007 |
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| Quasi-living metal catalyst for ethylene homo-polymerization and co-polymerization with 5-norbornen -2-yl acetate | 7,754,839 | July 13, 2010 |
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| Zwitterionic Group VIII transition metal initiators supported by olefin ligands | 8,044,225 | October 25, 2011 |
| Multilayer polymer light-emitting diodes for solid state lighting applications | 8,076,842 | December 13, 2011 |
| Compositions for detection and analysis of polynucleotides using light harvesting multichromophores | 8,101,416 | January 24, 2012 |
| Aggregation sensor and solutions and kits comprising the same | 8,110,673 | February 7, 2012 |
| Methods and compositions for detection and analysis of polynucleotides using light harvesting multichromophores | 8,227,187 | July 24, 2012 |
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| Enhancing performance characteristics of organic semiconducting films by improved solution processing (Appl. No.: 11/949,705) | 8,318,532 | November 27, 2012 |
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