Guillermo Carlos Bazan

Departments of Materials and Chemistry & Biochemistry

University of California

Santa Barbara, CA 93106-9510

(805) 893-5538

# 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)

|  |  |  |
| --- | --- | --- |
| **Patent Title** | **U.S. Patent Number** | **Date** |
| Patterned polymer electroluminescent devices based on microlithographic processes | 5,965,280 | October 12, 1999 |
| Soluble tetrahedral compounds for use in electroluminescent devices | 6,824,890 | November 30, 2004 |
| 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 |
| Binaphthol based chromophores for the fabrication of blue organic light emitting diodes | 7,442,447 | October 28, 2008 |
| Compositions for detection and analysis of polynucleotides using light harvesting multichromophores | 7,629,448 | December 8, 2009 |
| Metal catalyst for olefin polymerization and co-polymerization with functional monomers | 7,651,971 | January 26, 2010 |
| Methods for assaying a sample for an aggregant | 7,666,594 | February 23, 2010 |
| Hybrid polymer light-emitting devices | 7,745,520 | June 29, 2010 |
| Block copolyolefins possessing a tapered structure | 7,754,832 | July 13, 2010 |
| Quasi-living metal catalyst for ethylene homo-polymerization and co-polymerization with 5-norbornen -2-yl acetate | 7,754,839 | July 13, 2010 |
| Methods and articles for strand-specific poly-nucleotide detection with cationic multichromophores | 7,811,755 | October 12, 2010 |
| Controlled free radical grafting from polyolefins | 7,825,200 | November 2, 2010 |
| White electrophosphorescence from semiconducting polymer blends | 7,830,085 | November 9, 2010 |
| Conjugated polymers suitable for strand-specific polynucleotide detection in homogeneous and solid state assays | 7,897,684 | March 1, 2011 |
| Conformationally flexible cationic conjugated polymers | 7,914,984 | March 29, 2011 |
| Single component, phosphine-free, initiators for ethylene homopolymerization and copolymerization with functionalized co-monomers | 7,968,487 | June 28, 2011 |
| 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 |
| Processing additives for fabricating organic photovoltaic cells | 8,227,691 | July 24, 2012 |
| Transition metal initiators supported by ketone diimine ligands for the homopolymerization of olefins and the copolymerization of olefins with polar comonomers | 8,242,297 | August 14, 2012 |
| Enhancing performance characteristics of organic semiconducting films by improved solution processing (Appl. No.: 11/949/713) | 8,273,599 | September 25, 2012 |
| Soluble conjugated polymers | 8,309,672 | November 13, 2012 |
| Enhancing performance characteristics of organic semiconducting films by improved solution processing (Appl. No.: 11/949,705) | 8,318,532 | November 27, 2012 |
| Conjugated polymers for use in homogeneous and solid state assays | 8,338,532 | December 25, 2012 |
| Band gap control in conjugated oligomers and polymers via Lewis acids | 8,343,382 | January 1, 2013 |
| Tetrakis(1-imidazolyl) borate (BIM4) based zwitterionic and related molecules used as electron injection layers | 8,367,839 | February 5, 2013 |

# PUBLICATIONS

1. Clay Assisted Photoproduction of Hydrogen, Villemure, G.; Bazan, G.C.; Kodama, H.; Szabo, A.G.; Detellier, C., *Appl. Clay Sci.,* **1987**, *2*, 241-252.

2. Oxidation of Solid Polyethylene Films: Effects of Backbone Branching, Carlsson, D.J.; Bazan, G.C.; Chemla, S.; Wiles, D.M., *Polym. Degrad. Stab.,* **1987**, *19*, 195-206.

3. Evaluation of Cyclopentene-Based Chain Transfer Agents for Living Ring-Opening Metathesis Polymerization, Schrock, R.R.; Yap, K.B.; Yang, K.B.; Sitzmann, H.; Sita, L.R.; Bazan, G.C., *Macromolecules,* **1989**, *22*, 3191-3200.

4. Living and Highly Stereoregular Ring Opening Polymerization of 5-6 Difunctionalized Norbornadienes by a Well Characterized Molybdenum Catalyst, Bazan, G.C.; Schrock, R.R.; Khosravi, E.; Feast, W.J.; Gibson, V.C., *Poly. Comm.*,**1989**, *30*, 258-260.

5. Surface Properties and Electrochemistry of Well-Characterized, Electrode Confined Redox Active Polymers and Block Copolymers, Albagli, D.; Bazan, G.C.; Schrock, R.R.; Wrighton, M.S., *Proceedings of the International Society of Electrochemistry*, 40th Meeting, *1*, **1989**, 257.

6. Preparation of some Molybdenum Imido Alkylidene Complexes and a Study of their Reactions with Acyclic Olefins, Schrock, R.R.; Murdzek, J.S.; Bazan, G.C.; Robbins, J.; DiMare, M.; O'Regan, M., *J. Am. Chem. Soc.,* **1990**, *112*, 3875-3886.

7. Ring-Opening Polymerization of 5,6-Difunctionalized Norbornadienes by Mo(CH-*t*-Bu)(N-2,6-C6H3-*i*-Pr2)(O-*t-*Bu)2, Bazan, G.C.; Khosravi, E.; Schrock, R.R.; Feast, W.J.; Gibson, V.C.; O'Regan, M., *J. Am. Chem. Soc.*, **1990**, *112*, 8378-8387.

8. Monoadducts of Imido Alkylidene Complexes, Syn and Anti Rotamers, and Alkylidene Rotation, Schrock, R.R.; Crowe, W.E.; Bazan, G.C.; DiMare, M.; O’Regan, M.B.; Schofield, M.H., *Organometallics*, **1991**,*10*, 1032-1843.

9. Synthesis and Kinetics of Decomposition of Tungsten (VI) and Molybdenum (VI) 2-oxametallacyclobutane Complexes and the X-ray Structure of *trans*-Mo[CH(*tert*-Bu)CH(C6F5)O](NAr)(O-*tert*-Bu)2, Bazan, G.C.; Schrock, R.R.; O’Regan, M.B.,

*Organometallics*, **1991**, *10*, 1062-1067.

10. Synthesis of Star Block Copolymers by Controlled Ring-Opening Metathesis Polymerization, Bazan, G.C.; Schrock, R.R., *Macromolecules*, **1991**, *24*, 817-823.

11. Polymerization of Functionalized Norbornenes Employing Mo(CH-*t-*Bu)(NAr)(O-*t*-Bu)2 as the Initiator, Bazan, G.C.; Schrock, R.R.; Cho, H.N.; Gibson, V.C., *Macromolecules*, **1991**, *24*, 4495-4502.

12. Reduction of Molybdenum Imido-Alkylidene Complexes in the Presence of Olefins to give Molybdenum (IV) Complexes, Robbins, J.; Bazan, G.C.; Murdzek, J.S.; O'Regan, M.B.; Schrock, R.R., *Organometallics*, **1991**, *10*, 2902-2907.

13. Living Ring-Opening Metathesis Polymerization of 2,3-Difunctionalized 7-Oxanorbornenes and 7-Oxanorbornadienes by Mo(CHCMe2R)(N-2,6-C6H3-*i*-Pr2)(O-*t*-Bu)2 and Mo(CHCMe2R)( N-2,6-C6H3-*i*-Pr2)(OCMe2CF3)2, Bazan, G.C.; Oskam, J.H.; Cho, H.N.; Park, L.Y.; Schrock, R.R., *J. Am. Chem. Soc.*, **1991**, *113*, 6899-6907.

14. Well-Defined Redox-Active Polymers and Block Copolymers Prepared by Living Ring Opening Metathesis Polymerization, Albagli, D.; Bazan, G.C.; Wrighton, M.S.; Schrock, R.R., *J. Am. Chem. Soc.*,**1992**, *114*, 4150.

15. Electrochemistry of Well-Defined Redox Active Block Polymers Prepared by Living Ring-Opening Metathesis Polymerization, Albagli, D.; Bazan, G.C.; Wrighton, M.S.; Schrock, R.R., *Mol. Cryst. Liq. Cryst. Technol., Sect. A.*,**1992**, *216*, 123-128.

16. A Permethylcyclopentadienyl Carbollide Scandium Complex: tris(Tetrahydrofuran)lithium Lithium bis[3-bis(Trimethylsilylmethyl-3(.eta.5-pentamethylcyclopentadieneyl)-1,2-dicarba-3-scanda-closo-dodecacarborate, Marsh, R. E.; Schaefer, W.P.; Bazan, G.C.; Bercaw, J.E., *Acta Crystallogr., Sect. C: Cryst. Struct. Commun.,* **1992**, *C48*, 1416-1419.

17. Pentamethylcyclopentadienyl-Dicarbollide Derivatives of Scandium, Bazan, G.C.; Schaeffer, W.P.; Bercaw, J.E., *Organometallics*, **1993**, *12*, 2126-2130.

18 Surface Attachment of Well-Defined, Redox-Active Polymers and Block Copolymers via Terminal Functional Groups, Albagli, D.; Bazan, G.C.; Schrock, R.R.; Wrighton, M.S., *J. Am. Chem. Soc.*, **1993**, *115*, 7328-7334.

19. Stereoselective Polymerization of [2.2]Paracyclophan-1-ene, Miao, Y.J.; Bazan, G.C., *Macromolecules*, **1994**, *27*, 1063-1064.

20. Distorted Trimethylenemethane Complexes of Zirconium, Bazan, G.C.; Rodriguez, G.; Cleary, B.P., *J. Am. Chem. Soc.*, **1994**, *116*, 2177-2178.

21. Pentamethylcyclopentadienyl Aminoborrolide Derivatives of Zirconium and Hafnium: A New Class of Amphoteric Molecule having both Lewis Acidic and Lewis Basic Sites, Quan, R.W.; Bazan, G.C.; Kiely, A.F.; Schaefer, W.P.; Bercaw, J.E., *J. Am. Chem. Soc.*, **1994**, *116*, 4489-4490.

22. Regiospecific Head-to-Tail Ring-Opening Acetylene Metathesis Polymerization of Tetrasilacycloocta-3,7-diynes, Zhang, X.P.; Bazan, G.C., *Macromolecules*, **1994**, *27*, 4627-4628.

23. Paracyclophene Route to Poly(*p*-phenylenevinylene), Miao, Y.J.; Bazan, G.C., *J. Am. Chem. Soc.*, **1994**, *116*, 9379-9380.

24. Polymerization of [2.2]Paracyclophan-2-ene Derivatives. New Poly(para-phenylenevinylene) Precursors, Miao, Y.J.; Wong-Foy, A.G.; Bazan, G.C., *Polym. Reprints, ACS Div. Polym. Sci.*, **1994**, *35(2)*, 535.

25. Tantalum-Borollide Alkyl Complexes, Bazan, G.C.; Rodriguez, G., *Polyhedron*, **1995**, *14*, 93-102.

26. Pentamethylcyclopentadienyl-Borollide Complexes of Tantalum: New Group 4 Metallocene Mimics, Bazan, G.C.; Donnelly, S. J.; Rodriguez, G., *J. Am. Chem. Soc.*, **1995**, *117*, 2671-2672.

27. Cyclopolymerization of 1,2-Diethynylperalkyldisilanes using Molybdenum Alkylidene Initiators, Maciejewski, J.L.; Bazan, G.C.; Rodriguez, G., *Organometallics*, **1995**, *14*, 3357-3363.

28. Living and Stereoselective Polymerization of [2.2]-Paracyclophan-2-ene Derivatives, Miao, Y.J.; Sun, B.J.; Bazan, G.C., *Macromol. Symp.*, **1995**, *95*, 185-194.

29. Neutral Group V Bent Metallocene Analogs Containing the Tribenzylidene Dianion, Rodriguez, G.; Bazan, G.C., *J. Am. Chem. Soc.,* **1995**, *117*, 10155-10156.

30. Photophysics of Poly(paracyclophan-1-ene) and Derivatives: Evidence for Intrachain Energy Transfer and Chromophore Aggregation, Miao, Y.J.; Herkstroeter, W.G.; Sun, B.J.; Wong-Foy, A.G.; Bazan, G.C., *J. Am. Chem. Soc.*, **1995**, *117*, 11407-11420.

31. Preparation of Poly(3,6-phenanthrene vinylene) Derivatives via Oxidative Photocyclization, Sun B.J.; Bazan, G.C., *Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.),* **1995**, *36(1)*, 253.

32. New Emissive Materials via Living Ring-Opening Polymerization of Paracyclophan-1-ene Derivatives, Bazan, G.C., *IS&T's Annu. Conf., Final Program Adv. Print. Pap.*, **1995**, *48*, 398-400.

33. Encapsulation of Emissive Polymers within a Fluorinated Matrix, Bazan, G.C.; Renak, M.L.; Sun, B.J., *Macromolecules*, **1996**, *29*, 1085-1087.

34. Aminoboratobenzene Derivatives of Zirconium: A New Class of Olefin Polymerization Catalysts, Bazan, G.C.; Rodriguez, G.; Ashe, A.J. III; Al-Ahmad, S.; Müller, C., *J. Am. Chem. Soc.*, **1996**, *118*, 2291-2292.

35. Fluorescence Quantum Yield of poly(*p*-Phenylenevinylene) Prepared via the Paracyclophene Route: Effect of Chain Length and Interchain Contacts, Bazan, G.C.; Miao, Y.J.; Renak, M.; Sun, B.J., *J. Am. Chem. Soc.*, **1996**, *118*, 2618-2624.

36. A Tribenzylidenemethane-Tantalum Compound: Some Experiences with 'Inversion Twinning', Schaefer, W.P.; Marsh, R.E.; Rodriguez, G.; Bazan, G.C., *Acta Crystallogr., Sect. B: Struct. Sci.,* **1996**, *B52*, 465-470.

37. Luminescent Behavior of Soluble poly(para-phenylene vinylene) Copolymers, Sun, B.J.; Miao, Y.J.; Bazan, G.C.; Conwell, E.M., *Chem. Phys. Lett.*, **1996**, *260*, 186-190.

38. Hydrogenation of Borollide-Tantalum Complexes: Low-Valent Intermediates and the Effect of Exo-Cyclic Substituents, Kowal, C.; Bazan, G.C., *J. Am. Chem. Soc.*, **1996**, *118*, 10317-10318.

39. Synthesis, Structural Characterization and Reactivity of Zirconium Complexes Containing Trimethylenemethane-Based Ligands, Rodriguez, G.; Bazan, G.C., *J. Am. Chem. Soc.*, **1997**, *119*, 343-352.

40. Microlithographic Process for Patterning Conjugated Emissive Polymers, Renak, M.L.; Bazan, G.C.; Roitman, D., *Adv. Mater. (Weinheim, Ger.),* **1997**, *9*, 392-395.

41. (Phenylboratabenzene)zirconium Complexes: Tuning the Reactivity of an Olefin Polymerization Catalyst, Bazan, G.C.; Rodriguez, G.; Ashe, A.J. III; Al-Ahmad, S.; Kampf, J.W., *Organometallics*, **1997**, *16*, 2492-2494.

42. Electric Field Assisted Photodegradation of Spatially Confined poly(*p*-phenylenevinylene), Khan, M.I.; Renak, M.L.; Bazan, G.C.; Popovic, Z., *J. Am. Chem. So*c., **1997**, *119*, 5344-5347.

43. Ethoxyboratabenzene Zirconium Complexes: Catalysts for α-Olefin Production, Rogers, J.S.; Bazan, G.C.; Sperry, C.K., *J. Am. Chem. Soc.*, **1997**, *119*, 9305-9306.

44. Synthesis of Two Tantalum Complexes Bearing Cyclopentadienyl Analogs, Sperry, C.K.; Rodriguez, G.; Bazan, G.C., *J. Organomet. Chem.*,**1997**, *548*, 1-7.

45. Stilbenoid Dimers: Effect of Conjugation Length and Relative Chromophore Orientation, Oldham, W.L., Jr.; Miao, Y.J.; Lachicotte, R.J.; Bazan, G.C., *J. Am. Chem. Soc.*, **1998**, *120*, 419-420.

46. Synthesis of Branched Polyolefins using a Combination of Homogeneous Metallocene Mimics, Barnhart, R.W.; Bazan, G.C.; Mourey, T., *J. Am. Chem. Soc.*, **1998**, *120*, 1082-1083.

47. Triazamethylenemethane Complexes of Zirconium and Tantalum, Rodriguez, G.; Sperry, C.K.; Bazan, G.C., *J. Mol. Catal. A: Chem.*, **1998**, *128*, 5-28.

48. Synthesis, Spectroscopy and Morphology of Tetrastilbenoidmethanes, Oldham, W.J., Jr.; Lachicotte, R.J.; Bazan, G.C., *J. Am. Chem. Soc.*, **1998**, *120*, 2987-2988.

49. Photophysics of Main-Chain Polychromophores Prepared by Acyclic Diene Metathesis Polymerization, Miao, Y.J.; Bazan, G.C., *Macromolecules*, **1997**, *30,* 7414-7418.

50. Poly(*p*-phenylenevinylene) Copolymer Patterns Prepared via Photolithographic Techniques, Renak, M.L.; Bazan, G.C.; Roitman, D., *Synthetic Met.*, **1998**, *97*, 17-21.

51. Zirconium Complexes of 9-Phenyl-9-borataanthracene. Synthesis, Structural Characterization and Reactivity, Lee, R.A.; Lachicotte, R.J.; Bazan, G.C*.*, *J. Am. Chem. Soc*., **1998**, *120*, 6037-6046.

52. Tantalum Borollide Trichloride: A Versitily Entry into Tantalum Borollide Complexes, Sperry, C.K.; Cotter, W.D.; Lee, R.A.; Lachicotte, R.J.; Bazan, G.C., *J. Am. Chem. Soc*., **1998**, *120*, 7791-7805.

1. Stilbenoid Dimers: Dissection of a Paracyclophane Chromophore, Bazan, G.C.; Oldham, W.J.; Lachicotte, R.J.; Tretiak, S.; Chernyak, V.; Mukamel, S., *J. Am. Chem. Soc*., **1998**, *120*, 9188-9204.
2. Binding Preferences of the Tribenzylidenemethane Ligand in High-Oxidation State Tantalum Complexes, Rodriguez, G.; Graham, J.P.; Cotter, W.D.; Sperry, C.K.; Bazan, G.C.; Bursten, B.E., *J. Am. Chem. Soc.*, **1998**, *120*, 12512-12523.
3. Evidence for Electric Field-Assisted Dissociation of the Excited Singlet State into Charge Carriers in MEH-PPH, Khan, M.I.; Bazan, G.C.; Popovic, Z.D., *Chem. Phys. Lett*., **1998**, *298*, 309-314.
4. Hydrogenation Mechanisms in (Boratacycle)tantalum Analogues of Dimethylzirconocene, Sperry, C.K.; Bazan, G.C.; Cotter, W.D., *J. Am. Chem. Soc.*, **1999**, *121*, 1513-1523.
5. Alkoxy- and Aryloxyboratabenzene Complexes of Zirconium, Rogers, J.D.; Lachicotte, R.J., Bazan, G.C., *J. Am. Chem. Soc.*, **1999**, *121*, 1288-1298.
6. Narrow Bandwidth Luminescence from Blends with Energy Transfer from Semiconducting Conjugated Polymers to Europium Complexes, McGehee, M.D.; Bergstedt, T.; Zhang, C.; Saab, A.P.; O'Regan, M.B.; Bazan, G.C.; Srdanov, V.I.; Heeger, A.J., *Adv. Mater. (Weinheim, Ger.),* **1999**, *11*, 1349-1354.
7. Intramolecular Nucleophilic Substitution on Coordinated Borabenzenes: A New Entry into Boratabenzene Complexes, Putzer, M.A.; Rogers, J.S.; Bazan, G.C., *J. Am. Chem. Soc*., **1999**, *121*, 8112-8113.
8. Fluorinated Distyrylbenzene Chromophores: Effect of Fluorine Regiochemistry on Molecular Properties and Solid State Organization, Renak, M.L.; Bartholomew, G.P.; Wang, S.; Ricatto, P.J.; Lachicotte, R.J.; Bazan, G.C., *J. Am. Chem. Soc.,* **1999**, *121*, 7787-7799.
9. Fulvene to Cyclopentadienyl Conversion with Homoleptic Complexes of Zirconium and Hafnium, Rogers, J.S.; Lachicotte, R.J.; Bazan, G.C., *Organometallics*, **1999**, *18,* 3976-3980*.*
10. Synthesis and Crystal Structure of Titanium (III) Boratabenzene and Titanium (III) Fluorenyl Complexes, Putzer, M.A.; Lachicotte, R.J.; Bazan, G.C., *Inorg. Chem. Commun*., **1999**, *2*, 319-322.
11. Boratabenzene Complexes of Cr(III), Rogers, J.S.; Bu, X.; Bazan, G.C., *J. Am. Chem. Soc.*, **2000**, *122*, 730-731.
12. Synthesis of Butene-Ethylene and Hexene-Butene-Ethylene Copolymers from Ethylene via Tandem Action of Well-Defined Homogeneous Catalysts, Komon, Z.J.A.; Bu, X.; Bazan G.C., *J. Am. Chem. Soc.*, **2000**, *122*, 1830-1831.
13. Oligophenylenevinylene Phane Dimers: Probing the Effect of Contact Site on the Optical Properties of Bichromophoric Pairs, Wang, S.; Bazan, G.C.; Tretiak, S.; Mukamel, S., *J. Am. Chem. Soc.*, **2000**, *122*, 1289-1297.
14. Raman and Site-Selective Fluorescence Spectra of Model Compounds for Interchain Interactions in Poly(Phenylenevinylene), Verdal, N.; Godbout, J.T.; Perkins, T.L.; Bartholomew, G.P.; Bazan, G.C.; Kelley, A.M., *Chem. Phys. Lett.*, **2000**, *320*, 95-103.
15. Electron-Donating Properties of Boratabenzene Ligands, Bazan, G.C.; Cotter, W.D.; Komon, Z.J.A.; Lee, R.A.; Lachicotte, R.J., *J. Am. Chem. Soc.*, **2000**, *122*, 1371-1380.
16. Boratastilbene: Synthesis, Structural Characterization, and Photophysics, Lee, B.Y.; Wang, S.; Putzer, M.; Bartholomew, G.P.; Bu, X.; Bazan G.C., *J. Am. Chem. Soc.*, **2000**, *122*, 3969-3979.
17. Packing Modes of Distyrylbenzene Derivatives, Bartholomew, G.P.; Bazan, G.C.; Bu, X.; Lachicotte, R.J., *Chem. Mater.,* **2000**, *12*, 1422-1430.
18. Oligomerization-Transmetalation Reactions of Cp\*CrMe­2(PMe3)/Methylaluminoxane Catalysts, Rogers, J.S.; Bazan, G.C., *Chem. Commun.*, **2000**, 1209-1210.
19. Photoluminescence of Water-Soluble Conjugated Polymers: Origin of Enhanced Quenching by Charge Transfer, Wang, J.; Wang, D.; Miller, E.K.; Moses, D.; Bazan, G.C.; Heeger, A.J., *Macromolecules*, **2000**, *33*, 5153-5158.
20. Synthesis, Morphology and Optical Properties of Tetrahedral Oligo(phenylenevinylene) Materials, Wang, S.; Oldham, W.J.; Hudack, R.A.; Bazan, G.C., *J. Am. Chem. Soc.*, **2000**, *122*, 5695-5709.
21. Ethylene Oligomerization and Polymerization Catalysts Supported by Boratabenzene Ligands, Komon, K.J.A.; Bazan, G.C. in *Contemporary Boron Chemistry*, Davidson, M.G.; Hughes, A.K.; Marder, T.B.; Wade, K. Eds. The Royal Society of Chemistry, Cambridge, UK, **2000**, *Chapter Contribution*.
22. Synthesis, Morphology and Optoelectronic Properties of Tris[1-(N-ethylcarbazolyl)-1-(3’,5’-hexyloxybenzoyl)methane](phenanthroline) Europium, Robinson, M.R.; O’Regan, M.B.; Bazan, G.C., *Chem. Commun.*,**2000**, *17*, 1645-1646.
23. Synthesis, Characterization, and Reactivity of Chromium Boratabenzene Complexes, Rogers, J.S.; Bu, X.; Bazan, G.C., *Organometallics*, **2000**, *19,* 3948-3956.
24. 4-Boratastyrylstilbene and 1,4-Bis(boratasty)benzene: Synthesis, Structural Characterization and Photophysics, Lee, B.Y.; Bazan, G.C., *J. Am. Chem. Soc.,* **2000**, *122*, 8577-8678.
25. Preferential Cocrystallization among Distyrylbenzene Derivatives, Bartholomew, G.P.; Bu, X.; Bazan, G.C., *Chem. Mater.*, **2000**, *12*, 2311-2318.
26. Through-Space Charge Transfer and Nonlinear Optical Properties of Substituted Paracyclophane, Zyss, J.; Ledoux, I.; Volkov, S.; Chernyak, V.; Mukamel, S.; Bartholomew, G.P.; Bazan, G.C., *J. Am. Chem. Soc.*, **2000**, *122*, 11956-11962.
27. Synthesis, Characterization, and Ethylene Oligomerization Action of [(C6H5)(2)PC6H4C(O-B(C6F5 )(3))O-k(2)P,O]Ni(eta(3)-CH2C6H5), Komon, Z.J.A.; Bu, X.H.; Bazan, G.C., *J. Am. Chem. Soc.*, **2000**, *122*, 12379-12380.
28. Electroluminescence from Well-Defined Tetrahedral Oligophenylenevinylene Tetramers, Robinson, M.R.; Wang, S.J.; Bazan, G.C.; Cao, Y., *Adv. Mater. (Weinheim, Ger.),* **2000***, 12*, 1701-1704.
29. Exciplex Formation with Distyrylbenzene Derivatives and N,N-Dimethylaniline,  
    Wang, S.J.; Bazan, G.C., *Chem. Phys. Lett.*,**2001**, *333*, 437-443.
30. Photoluminescence Quenching of Conjugated Macromolecules by Bipyridinium Derivatives in Aqueous Media: Charge Dependence, Wang, D.L.; Wang, J.; Moses, D.; Bazan, G.C.; Heeger, A.J., *Langmuir*, **2001**, *17*, 1262-1266.
31. Synthesis, Characterization and C-H Activation Reactivity of Bis(Ethylene) Boratabenzene Rhodium Complexes, Woodmansee, D.H.; Bu, X.H.; Bazan, G.C., *Chem. Commun.*, **2001**, *7*, 619-620.
32. Synthesis of Branched Polyethylene from Ethylene by Tandem Action of Iron and Zirconium Single Site Catalysts, Quijada, R.; Rojas, R.; Bazan, G.C.; Komon, Z.J.A.; Mauler, R.S.; Galland, G.B., *Macromolecules*, **2001**, *34,* 2411-2417.
33. Catalytic Insertion of Ethylene into Al-C Bonds with Pentamethylcyclopentadienyl-Chromium(III) Complexes, Bazan, G.C.; Rogers, J.S.; Fang, C.C., *Organometallics*, **2001**, *20*, 2059-2064.
34. Photoluminescence Quenching of Water-Soluble Conjugated Macromolecule by Bipyridinium Derivatives, Wang, D.L.; Wang, J.; Moses, D.; Bazan, G.C.; Heeger, A.J.; Park, J.H.; Park, Y.W., *Synthetic Met.*, **2001**, *119*, 587-588.
35. Alpha-Iminocarboxamidato-Nickel(II) Ethylene Polymerization Catalysts,  
    Lee, B.Y.; Bazan, G.C.; Vela, J.; Komon, Z.J.A.; Bu, X.H., *J. Am. Chem. Soc.*, **2001**, *123*, 5352-5353.
36. Synthesis of Branched Polyethylene by Tandem Catalysis, Komon, Z.J.A.; Bazan, G.C., *Macromol. Rapid Commun.*, **2001**, *22*, 467-478.
37. Water-Soluble Conjugated Oligomers: Effect of Chain Length and Aggregation on Photoluminescence-Quenching Efficiencies, Gaylord, B.S.; Wang, S.J.; Heeger, A.J.; Bazan, G.C., *J. Am. Chem. Soc.*, **2001**, *123*, 6417-6418.
38. Crystal Structures of Tetrakis(4,4 '-(2,2-Diphenylvinyl)-1,1-Biphenyl)Methane: Transmission Electron Microscopy and X-Ray Diffraction, Yang, C.Y.; Wang, S.J.; Robinson, M.R.; Bazan, G.C.; Heeger, A.J., *Chem. Mater.*, **2001**, *13*, 2342-2348.
39. Glass-Forming Binaphthyl Chromophores, Ostrowski, J.C.; Hudack, R.A.; Robinson, M.R.; Wang, S.J.; Bazan, G.C., *Chem.—Eur. J.*, **2001**, *7*, 4500-4511.
40. Small Angle Neutron Scattering (SANS) Studies of a Conjugated Polyelectrolyte in Aqueous Solution, Wang, D.L.; Lal, J.; Moses, D.; Bazan, G.C.; Heeger, A.J.,  
    *Chem. Phys. Lett.*, **2001**, *348*, 411-415.
41. Pyridinecarboxamidato-Nickel(II) Complexes, Lee, B.Y.; Bu, X.H.; Bazan, G.C.,  
    *Organometallics*,**2001**, *20*, 5425-5431.
42. A Tetrahedral Oligo(Phenylenevinylene) Molecule of Intermediate Dimensions: Effect of Molecular Shape on the Morphology and Electroluminescence of Organic Glasses, Robinson, M.R.; Wang, S.J.; Heeger, A.J.; Bazan, G.C., *Adv. Funct. Mater.*, **2001**, *11*, 413-419.
43. Conformation of a Conjugated Polyelectrolyte in Aqueous Solution: Small Angle Neutron Scattering, Wang, D.L.; Moses, D.; Bazan, G.C.; Heeger, A.J.; Lal, J.,  
    *J. Macromol. Sci., Pure Appl. Chem.*, **2001**, *38*, 1175-1189.
44. Bichromophoric Paracyclophanes: Models for Interchromophore Delocalization, Bartholomew, G.P.; Bazan, G.C., *Acc. Chem. Res.*, **2001**, *34*, 30-39.
45. NMR Study of Branched Polyethylenes Obtained with Combined Fe and Zr Catalysts,  
    Galland, G.B.; Quijada, R.; Rojas, R.; Bazan, G.C.; Komon, Z.J.A., *Macromolecules*, **2002**, *35*, 339-345.
46. Biosensors from Conjugated Polyelectrolyte Complexes, Wang, D.L.; Gong, X.; Heeger, P.S.; Rininsland, F.; Bazan, G.C.; Heeger, A.J., *Proc. Nat. Acad. Sci. USA*, **2002**, *99*, 49-53.
47. Zirconocene Compounds Derived from Boratastilbene, 4-Boratastyrylstilbene, and 1,4-Bis(Boratastyryl)Benzene and their Reactivities to the Ethylene Polymerization, Lee, B.Y.; Bazan, G.C., *J. Organomet. Chem.*, **2002**, *642*, 275-279.
48. Coherent Effects in Energy Transport in Model Dendritic Structures Investigated by Ultrafast Fluorescence Anisotropy Spectroscopy, Varnavski, O.P.; Ostrowski, J.C.; Sukhomlinova, L.; Twieg, R.J.; Bazan, G.C.; Goodson, T., *J. Am. Chem. Soc.*, **2002**, *124*, 1736-1743.
49. Energy Transfer in Mixtures of Water-Soluble Oligomers: Effect of Charge, Aggregation, and Surfactant Complexation, Stork, M.; Gaylord, B.S.; Heeger, A.J.; Bazan, G.C., *Adv. Mater. (Weinheim, Ger.),* **2002**, *14*, 361-366.
50. Amorphous Iridium Complexes for Electrophosphorescent Light Emitting Devices, Ostrowski, J.C.; Robinson, M.R.; Heeger, A.J.; Bazan, G.C., *Chem. Commun.*, **2002**, 7, 784-785.
51. Polarization Effects of a Europium Complex in Stretched Polyethylene, Srdanov, V.I.; Robinson, M.R.; Bartl, M.H.; Bu, X.; Bazan, G.C., *Appl. Phys. Lett.*, **2002**, *80*, 3042-3044.
52. High-Efficiency Polymer-Based Electrophosphorescent Devices, Gong, X.; Robinson, M.R.; Ostrowski, J.C.; Moses, D.; Bazan, G.C.; Heeger, A.J., *Adv. Mater. (Weinheim, Ger.),* **2002**, *14*, 581-585.
53. Synthesis, Characterization, and Spectroscopy of 4,7,12,15-[2.2]Paracyclophane Containing Donor and Acceptor Groups: Impact of Substitution Patterns on Through-Space Charge Transfer, Bartholomew, G.P.; Bazan, G.C., *J. Am. Chem. Soc.*, **2002**, *124*, 5183-5196.
54. Effects of a Paracyclophane Linker on the Charge-Transfer Transition of 4-(Dimethylamino)-4'-Nitrostilbene, Moran, A.M.; Bartholomew, G.P.; Bazan, G.C.; Kelley, A.M., *J. Phys. Chem.*, **2002**, *106 (A)*, 4928-4937.
55. Structural Phase Transformation in Tetrakis(4,4'-(2,2-Diphenyl-Vinyl)-1,1'-Biphenyl)Methane, Yang, C.Y.; Wang, S.J.; Robinson, M.R.; Bazan, G.C.; Heeger, A.J., *Mater. Chem. Phys.*, **2002**, *76*, 64-68.
56. Strategies for the Synthesis of 'Through-Space' Chromophore Dimers based on [2.2]Paracyclophane, Bartholomew, G.P.; Bazan, G.C., *Synthesis-Stuttgart*, **2002**, *9*, 1245-1255.
57. B-11 NMR Analysis of Catalyst Solutions Obtained from Bis(Boratabenzene)Zirconium Dichloride Complexes and Methylaluminoxane, Komon, Z.J.A.; Rogers, J.S.; Bazan, G.C., *Organometallics*, **2002**, *21*, 3189-3195.
58. Alpha-Iminoenamido Ligands: A Novel Structure for Transition-Metal Activation,  
    Kim, Y.H.; Kim, T.H.; Lee, B.Y.; Woodmansee, D.; Bu, X.H.; Bazan, G.C., *Organometallics*, **2002**, *21*, 3082-3084.
59. Orienting Eu(Dnm)(3)Phen by Tensile Drawing in Polyethylene: Polarized Eu3+ Emission, Yang, C.Y.; Srdanov, V.; Robinson, M.R.; Bazan, G.C.; Heeger, A.J., *Adv. Mater. (Weinheim, Ger.),* **2002**, *14*, 980-983.
60. DNA Detection using Water-Soluble Conjugated Polymers and Peptide Nucleic Acid Probes, Gaylord, B.S.; Heeger, A.J.; Bazan, G.C., *Proc. Nat. Acad. Sci. USA*,**2002**, *99*, 10954-10957.
61. Single Molecule Spectroscopy of Tetrahedral Oligophenylenevinylene Molecules, Summers, M.A.; Robinson, M.R.; Bazan, G.C.; Buratto, S.K., *Chem. Phys. Lett.*, **2002**, *364*, 542-549.
62. Water-Soluble Oligomer Dimers based on Paracyclophane: A New Optical Platform for Fluorescent Sensor Applications, Hong, J.W.; Gaylord, B.S.; Bazan, G.C., *J. Am. Chem. Soc.*, **2002**, *124*, 11868-11869.
63. Red Electrophosphorescence from Polymer Doped with Iridium Complex, Gong, X.; Ostrowski, J.C.; Bazan, G.C.; Moses, D.; Heeger, A.J., *Appl. Phys. Lett.*,**2002**, *81*, 3711-3713.
64. Three-Dimensional Nonlinear Optical Chromophores based on Through-Space Delocalization, Bartholomew, G.P.; Ledoux, I.; Mukamel, S.; Bazan, G.C.; Zyss, J., *J. Am. Chem. Soc.,* **2002**, *124*, 13480-13485.
65. Triple Tandem Catalyst Mixtures for the Synthesis of Polyethylenes with Varying Structures, Komon, Z.J.A.; Diamond, G.M.; Leclerc, M.K.; Murphy, V.; Okazaki, M.; Bazan, G.C., *J. Am. Chem. Soc.,* **2002**, *124*, 15280-15285.
66. DNA Hybridization Detection with Water-Soluble Conjugated Polymers and Chromophore-Labeled Single-Stranded DNA, Gaylord, B.S.; Heeger, A.J.; Bazan, G.C., *J. Am. Chem. Soc.,* **2003**, *125*, 896-900.
67. Electrophosphorescence from a Conjugated Copolymer Doped with an Iridium Complex: High Brightness and Improved Operational Stability, Gong, X.; Ostrowski, J.C.; Bazan G.C.; Moses, D.; Heeger, A.J.; Liu, M.S.; Jen, A.K.Y., *Adv. Mater. (Weinheim, Ger.),* **2003**, *15*, 45.
68. Protagonists in Chemistry, O'Regan, M.B.; Bazan, G.C., *Inorg. Chim. Acta*, **2003**, *345*, 17-19.
69. Boron Trifluoride Activation of Ethylene Oligomerization and Polymerization Catalysts, Komon, Z.J.A; Bazan, G.C.; Fang, C.; Bu, X.H., *Inorg. Chim. Acta*, **2003**, *345*, 95-102.
70. Effect of Chromophore-Charge Distance on the Energy Transfer Properties of Water-Soluble Conjugated Oligomers, Liu, B.; Gaylord, B.S.; Wang, S.; Bazan, G.C., *J. Am. Chem. Soc.*, **2003**, *125*, 6705-6714.
71. Visible and Near-IR Luminescence via Energy Transfer in Rare Earth Doped Mesoporous Titania Thin Films with Nanocrystalline Walls, Frindell, K.L.; Bartl, M.H.; Robinson, M.R.; Bazan, G.C.; Popitsch, A.; Stucky, G.D., *J. Solid State Chem.*, **2003**, *172*, 81-88.
72. Beyond Superquenching: Hyper-Efficient Energy Transfer from Conjugated Polymers to Gold Nanoparticles, Fan, C.H.; Wang, S.; Hong, J.W.; Bazan, G.C.; Plaxco, K.W.; Heeger, A.J., *Proc. Nat. Acad. Sci. USA*, **2003**, *100*, 6297-6301.
73. Single-Component Light-Emitting Electrochemical Cell with Improved Stability, Edman, L.; Pauchard, M.; Liu, B.; Bazan, G.C.; Moses, D.; Heeger, A.J., *Appl. Phys. Lett.*, **2003**, *82*, 3961-3963.
74. Design, Synthesis, and Characterization of Well-Defined Amorphous Molecules for Use in Organic LEDs, Robinson, M.R.; Bazan, G.C.; Heeger, A.J.; O'Regan, M.B.; Wang, S.J., *ACS Symp. Ser.*, **2003**, *844*, 187-194.
75. Optical Microscopy of Polycrystalline Oligo(Phenylenevinylene) Films, Summers, M.A.; Robinson, M.R.; Bazan, G.C.; Buratto, S.K., *Synth. Met.,* **2003**, *137*, 957-958.
76. Stabilized Blue Emission from Polyfluorene-Based Light-Emitting Diodes: Elimination of Fluorenone Defects, Gong, X.O.; Iyer, P.K.; Moses, D.; Bazan, G.C.; Heeger, A.J.; Xiao, S.S., *Adv. Funct. Mater.*, **2003**, *13*, 325-330.
77. Conformation and Luminescence of Isolated Molecular Semiconductor Molecules, Summers, M.A.; Kemper, P.R.; Bushnell, J.E.; Robinson, M.R.; Bazan, G.C.; Bowers, M.T.; Buratto, S.K., *J. Am. Chem. Soc.*, **2003**, *125*, 5199-5203.
78. Size-Specific Interactions Between Single- and Double-Stranded Oligonucleotides and Cationic Water-Soluble Oligofluorenes, Wang, S.; Gaylord, B.S.; Bazan, G.C., *Adv. Funct. Mater.*, **2003**, *13*, 463-467.
79. Electrophosphorescence from a Polymer Guest-Host System with an Iridium Complex as Guest: Forster Energy Transfer and Charge Trapping, Gong, X.; Ostrowski, J.C.; Moses, D.; Bazan, G.C.; Heeger, A.J., *Adv. Funct. Mater.*,**2003**, *13*, 439-444.
80. Temperature Dependence of Electronic Energy Transfer from a Polymer Host to a Triplet Emitter in Light Emitting Diode Materials, Lim, S.H.; Gong, X.; Ostrowski, J.C.; Bazan, G.C.; Moses, D.; Bardeen, C.M., *Chem. Phys. Lett.*, **2003***, 376*, 55-61.
81. Through-Space Delocalized Water-Soluble Paracyclophane Bichromophores: New Fluorescent Optical Reporters, Hong, J.W.; Benmansour, H.; Bazan, G.C., *Chem.—Eur. J.,* **2003**, *9*, 3186-3192.
82. Near-Infrared Electroluminescent Light-Emitting Devices based on Ethyne-Bridged Porphyrin Fluorophores, Ostrowski, J.C.; Susumu, K.; Robinson, M.R.; Therien, M.J.; Bazan, G.C., *Adv. Mater. (Weinheim, Ger.),* **2003**, *15*, 1296.
83. Optically Amplified RNA-Protein Detection Methods using Light-Harvesting Conjugated Polymers, Wang, S.; Bazan, G.C., *Adv. Mater. (Weinheim, Ger.),* **2003**, *15*, 1425-1428.
84. Reduced Operating Voltages in Polymer Light-Emitting Diodes Doped with Rare-Earth Complexes, Robinson, M.R.; Ostrowski, J.C.; Bazan, G.C.; McGehee, M.D., *Adv. Mater. (Weinheim, Ger.),* **2003**, *15*, 1547.
85. Conformations and Photophysics of a Stilbene Dimer, Ruseckas, A.; Namdas, E.B.; Lee, J.Y.; Mukamel, S.; Wang, S.J.; Bazan, G.C.; Sundstrom, V., *J. Phys. Chem.*,**2003**, *107*, 8029-8034.
86. Origin of Efficient Light Emission from a Phosphorescent Polymer/Organometallic Guest-Host System, Negres, R.A.; Gong, X.; Ostrowski, J.C.; Bazan, G.C.; Moses, D.; Heeger, A.J., *Phys. Rev. B*, **2003**, *68*, 115209.
87. The Boratacyclooctatetraene Ligand: An Isoelectronic Trianionic Analogue of the Cyclooctatetraene Dianion, Fang, X.D.; Woodmansee, D.; Bu, X.H.; Bazan, G.C., *Angew. Chem., Int. Ed. Engl.*, **2003**, *42*, 4510-4514.
88. High-Performance Polymer-Based Electrophosphorescent Light-Emitting Diodes, Gong, X.; Ostrowski, J.C.; Moses, D.; Bazan, G.C.; Heeger, A.J., *J. Polym. Sci., Part B: Polym. Phys.,* **2003**, *41*, 2691-2705.
89. Shape-Adaptable Water-Soluble Conjugated Polymers, Liu, B.; Wang, S.; Bazan, G.C; Mikhailovsky, A., *J. Am. Chem. Soc.*, **2003**, *125*, 13306-13307.
90. Anthracene-Containing Binaphthol Chromophores for Light-Emitting Diode (LED) Fabrication, Benmansour, H.; Shioya, T.; Sato, Y.; Bazan, G.C., *Adv. Funct. Mater.*, **2003**, *13*, 883-886.
91. Ethylene Homopolymerization and Copolymerization with Functionalized 5-Norbornen-2-Yl Monomers By A Novel Nickel Catalyst System, Diamanti S.J.; Ghosh P.; Shimizu, F.; Bazan, G.C., *Macromolecules*, **2003**, *36*, 9731-9735.
92. Phosphorescence from Iridium Complexes Doped into Polymer Blends, Gong, X.; Lim, S.H.; Ostrowski, J.C.; Moses, D.; Bardeen, C.J; Bazan, G.C., *J. Appl. Phys.*, **2004**, *95*, 948-953.
93. Alpha, Omega-Bis(Thioacetyl)Oligophenylenevinylene Chromophores from Thioanisol Precursors, Seferos, D.S.; Banach D.A.; Alcantar, N.A.; Israelachvilli, J.N.; Bazan, G.C., *J. Org. Chem.*, **2004**, *69*, 1110-1119.
94. Interpolyelectrolyte Complexes of Conjugated Copolymers and DNA: Platforms for Multicolor Biosensors, Liu, B.; Bazan, G. C., *J. Am. Chem. Soc.*, **2004**, *126*, 1942-1943.
95. Photon Pair Correlation Spectroscopy of Single Tetrahedral Oligophenylenevinylene Molecules at Room Temperature, Bussian, D.A.; Summers, M.A.; Liu, B.; Bazan, G.C.; Buratto, S.K., *Chem. Phys. Lett.*,**2004**, *388*, 181-185.
96. Characterization of Tecto-RNA Assembly with Cationic Conjugated Polymers, Liu, B.; Baudrey, S.; Jaeger, L.; Bazan, G.C., *J. Am. Chem. Soc.*, **2004**, *126*, 4076-4077.
97. Vibronic Contributions to Charge Transport Across Molecular Junctions, Kushmerick, J.G.; Lazorcik, J.; Patterson, C.H.; Shashidhar, R.; Seferos, D.; Bazan, G.C., *Nano Lett.*, **2004**, *4*, 639-642.
98. Fluorescein Provides a Resonance Gate for FRET from Conjugated Polymers to DNA Intercalated Dyes, Wang, S.; Gaylor, B.S.; Bazan, G.C., *J. Am. Chem. Soc.*, **2004**, *126*, 5446-5451.
99. End-Capping as a Method for Improving Carrier Injection in Electrophosphorescent Light-Emitting Diodes, Gong, X.; Ma, W.L.; Ostrowski, J.C.; Bechgaard, K.; Bazan, G.C.; Heeger, A.J.; Xiao, S.; Moses, D., *Adv. Funct. Mater.*, **2004**, *14*, 393-397.
100. White Electrophosphorescence from Semiconducting Polymer Blends, Gong, X.; Ma, W.L.; Ostrowski, J.C.; Bazan, G.C; Moses, D.; Heeger, A.J., *Adv. Mater. (Weinheim, Ger.),* **2004**, *16*, 615-616.
101. Blue Fluorescent Films based on Poly-2,7-fluorene-phenylene Derivatives, Mallavia, R.; Martinez-Perez, D.; Chmelka, B.F.; Bazan, G.C., *Boletin de la Sociedad Espanola de Ceramica y Vidrio*, **2004**,*43*, 327-330.
102. Diastereomer Assignment of an Olefin-Linked Bis-Paracyclophane by Ion Mobility Mass Spectrometry, Baker, E.S.; Hong, J.W.; Gidden, J.; Bartholomew, G.P.; Bazan, G.C.; Bowers, M.T., *J. Am. Chem. Soc.*, **2004**, *126*, 6255-6257.
103. Light Amplification by Optical Excitation of a Chemical Defect in a Conjugated Polymer, Vehse, M.; Liu, B.; Edman, L.; Bazan, G.C.; Heeger, A.J., *Adv. Mater. (Weinheim, Ger.),* **2004**,*16*, 1001-1004.
104. Time-Resolved Energy Transfer in DNA Sequence Detection using Water-Soluble Conjugated Polymers: The Role of Electrostatic and Hydrophobic Interactions, Xu, Q.H.; Gaylord, B.S.; Wang, S.; Bazan, G.C.; Moses, D.; Heeger, A.J., *Proc. Nat. Acad. Sci. USA*, **2004**, *101*, 11634-11639.
105. Synthesis of Block Copolymer Segments Containing Different Ratios of Ethylene and 5-Norbornen-2-yl Acetate, Diamanti, S.J.; Khanna, V.; Hotta, A.; Yamakawa, D.; Shimizu, F.; Kramer, E.J.; Fredrickson, G.H.; Bazan, G.C., *J. Am. Chem. Soc.*, **2004**, *126*, 10528-10529.
106. Ring Closure of 1,4-Pentadiene to Cyclopentene by a Zwitterionic Nickel Catalyst, Wasilke, J.C.; Komon, Z.J.A.; Bu, X.H.; Bazan, G.C., *Organometallics*, **2004**, *23,* 4174-4177.
107. The Determination of Cis-Trans Conformations in Tetrahedral p-Phenylene Vinylene Oligomers, Bushnell, J.E.; Kemper, P.R.; Bazan, G.C.; Bowers, M.T., *J. Phys. Chem. (A)*, **2004**, *108*, 7730-7735.
108. Two-Photon Absorption in Three-Dimensional Chromophores based on [2.2]-Paracyclophane, Bartholomew, G.P.; Rumi, M.; Pond, S.J.K.; Perry, J.W.; Tretiak, S.; Bazan, G.C., *J. Am. Chem. Soc.*, **2004**, *126*, 11529-11542.
109. Solvent-Dependent Aggregation of a Water-Soluble Poly(Fluorene) Controls Energy Transfer to Chromophore-Labeled DNA, Wang, S.; Bazan, G.C., *Chem. Commun.*, **2004**, *21*, 2508-2509.
110. Vibrational and Electronic Spectroscopy of a Donor-Acceptor Substituted Distyrylbenzene and its Covalent Dimers, Leng, W.N.; Grunden, J.; Bartholomew, G.P.; Bazan, G.C.; Kelley, A.M., *J. Phys. Chem. (A)*, **2004**, *108*, 10050-10059.
111. Perturbation of Fluorescence by Nonspecific Interactions between Anionic Poly(Phenylenevinylene)s and Proteins: Implications for Biosensors, Dwight, S.J.; Gaylord, B.S.; Hong, J.W.; Bazan, G.C., *J. Am. Chem. Soc*., **2004**, *126*, 16850-16859.
112. Collective Optical Behavior of Cationic Water-Soluble Dendrimers, Wang, S.; Gaylord, B.S.; Bazan, G.C., *Adv. Mater. (Weinheim, Ger.),* **2004**, *16,* 2127-2132.
113. SNP Detection using Peptide Nucleic Acid Probes and Conjugated Polymers: Applications in Neurodegenerative Disease Identification, Gaylord, B.S.; Massie, M.R.; Feinstein, S.C.; Bazan, G.C., *Proc. Nat. Acad. Sci. USA*, **2005**, *102*, 34-39.
114. Water-Soluble [2.2]Paracyclophane Chromophores with Large Two-Photon Action Cross Sections, Woo, H.Y.; Hong, J.W.; Liu, B.; Mikhailovsky, A.; Korystov, D.; Bazan, G.C., *J. Am. Chem. Soc.*, **2005**, *127,* 820-821.
115. Methods for Strand-Specific DNA Detection with Cationic Conjugated Polymers Suitable for Incorporation into DNA Chips and Microarrays, Liu, B.; Bazan, G.C., *Proc. Nat. Acad. Sci. USA*, **2005**, *102*, 589-593.
116. The Fluorescence Resonance Energy Transfer (FRET) Gate: A Time-Resolved Study, Xu, Q.H.; Wang, S.; Korystov, D.; Mikhailovsky, A.; Bazan, G.C.; Moses, D.; Heeger, A.J., *Proc. Nat. Acad. Sci. USA*, **2005**, *102*, 530-535.
117. Remote Activation of Nickel Catalysts for Ethylene Oligomerization, Chen, Y.F.; Wu, G.; Bazan, G.C.,*Angew. Chem., Int. Ed. Engl.*, **2005**, *44*, 1108-1112.
118. Water/Methanol-Soluble Conjugated Copolymer as an Electron-Transport Layer in Polymer Light-Emitting Diodes, Ma, W.L.; Iyer, P.K.; Gong, X.; Liu, B.; Moses, D.; Bazan, G.C.; Heeger, A.J., *Adv. Mater. (Weinheim, Ger.),* **2005**, *17*, 274-277.
119. Trimethylphosphine-Bis(Benzyl)Nickel: Synthesis and Characterization, [Wasilke, J.C](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Wasilke+JC&curr_doc=1/11&Form=FullRecordPage&doc=1/11).; [Ziller, J.W](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Ziller+JW&curr_doc=1/11&Form=FullRecordPage&doc=1/11).; [Bazan, G.C](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/11&Form=FullRecordPage&doc=1/11)., *Adv. Synth. Catal.,* **2005**, *347,* 405-408.
120. Concurrent Tandem Catalysis, [Wasilke, J.C](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Wasilke+JC&curr_doc=1/10&Form=FullRecordPage&doc=1/10).; [Obrey, S.J](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Obrey+SJ&curr_doc=1/10&Form=FullRecordPage&doc=1/10).; [Baker, R.T](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Baker+RT&curr_doc=1/10&Form=FullRecordPage&doc=1/10).; [Bazan, G.C](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/10&Form=FullRecordPage&doc=1/10)., *Chem. Rev. (Washington, DC)*, **2005**, *105,* 1001-1020.
121. Magnetic Directed Assembly of Molecular Junctions, [Long, D.P](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Long+DP&curr_doc=1/9&Form=FullRecordPage&doc=1/9).; [Patterson, C.H](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Patterson+CH&curr_doc=1/9&Form=FullRecordPage&doc=1/9).; [Moore, M.H](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Moore+MH&curr_doc=1/9&Form=FullRecordPage&doc=1/9).; [Seferos, D.S](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Seferos+DS&curr_doc=1/9&Form=FullRecordPage&doc=1/9).; [Bazan, G.C](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/9&Form=FullRecordPage&doc=1/9).; [Kushmerick, J.G](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Kushmerick+JG&curr_doc=1/9&Form=FullRecordPage&doc=1/9)., *Appl. Phys. Lett.*,**2005**, *86,* 153105.
122. Solvatochromism of Distyrylbenzene Pairs Bound Together By [2.2]Paracyclophane: Evidence for a Polarizable "Through-Space" Delocalized State, [Hong, J.W](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Hong+JW&curr_doc=1/8&Form=FullRecordPage&doc=1/8).; [Woo, H.Y](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Woo+HY&curr_doc=1/8&Form=FullRecordPage&doc=1/8).; [Liu, B](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Liu+B&curr_doc=1/8&Form=FullRecordPage&doc=1/8).; [Bazan, G.C](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/8&Form=FullRecordPage&doc=1/8)., *J. Am. Chem. Soc.*, **2005**, *127,* 7435-7443.
123. Synthesis of Cationic Water-Soluble Light-Harvesting Dendrimers, [Wang, S](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Wang+S&curr_doc=1/7&Form=FullRecordPage&doc=1/7).; [Hong, J.W](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Hong+JW&curr_doc=1/7&Form=FullRecordPage&doc=1/7).; [Bazan, G.C](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/7&Form=FullRecordPage&doc=1/7)., *Org. Lett.,* **2005**, *7,* 1907-1910.
124. Resonance Hyper-Raman Excitation Profiles of a Donor-Acceptor Substituted Distyrylbenzene: One-Photon and Two-Photon States, [Shoute, L.C.T](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Shoute+LCT&curr_doc=1/6&Form=FullRecordPage&doc=1/6).; [Bartholomew, G.P](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Bartholomew+GP&curr_doc=1/6&Form=FullRecordPage&doc=1/6).; [Bazan, G.C](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/6&Form=FullRecordPage&doc=1/6).; [Kelley, A.M](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Kelley+AM&curr_doc=1/6&Form=FullRecordPage&doc=1/6)., *J. Chem. Phys.*, **2005**,*122,* 184508.
125. Theoretical Study of the Effects of Solvent Environment on Photophysical Properties and Electronic Structure of Paracyclophane Chromophores, [Masunov, A](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Masunov+A&curr_doc=1/5&Form=FullRecordPage&doc=1/5).; [Tretiak, S](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Tretiak+S&curr_doc=1/5&Form=FullRecordPage&doc=1/5).; [Hong, J.W](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Hong+JW&curr_doc=1/5&Form=FullRecordPage&doc=1/5).; [Liu, B](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Liu+B&curr_doc=1/5&Form=FullRecordPage&doc=1/5).; [Bazan, G.C](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/5&Form=FullRecordPage&doc=1/5)., *J. Chem. Phys.*,**2005**, *122,* 224505.
126. Probing Pi-Coupling in Molecular Junctions, [Seferos, D.S](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Seferos+DS&curr_doc=1/4&Form=FullRecordPage&doc=1/4).; [Trammell, S.A](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Trammell+SA&curr_doc=1/4&Form=FullRecordPage&doc=1/4).; [Bazan, G.C](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/4&Form=FullRecordPage&doc=1/4).; [Kushmerick, J.G](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Kushmerick+JG&curr_doc=1/4&Form=FullRecordPage&doc=1/4)., *Proc. Nat. Acad. Sci. USA*, **2005**, *102*, 8821-8825.
127. Single-Component Light-Emitting Electrochemical Cell Fabricated from Cationic Polyfluorene: Effect of Film Morphology on Device Performance, [Edman, L](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Edman+L&curr_doc=1/2&Form=FullRecordPage&doc=1/2).; [Liu, B](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Liu+B&curr_doc=1/2&Form=FullRecordPage&doc=1/2).; [Vehse, M](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Vehse+M&curr_doc=1/2&Form=FullRecordPage&doc=1/2).; [Swensen, J](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Swensen+J&curr_doc=1/2&Form=FullRecordPage&doc=1/2).; [Bazan, G.C](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/2&Form=FullRecordPage&doc=1/2).; [Heeger, A.J](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Heeger+AJ&curr_doc=1/2&Form=FullRecordPage&doc=1/2)., *J. Appl. Phys.*,**2005**, *98*, 044502.
128. Multilayer Polymer Light-Emitting Diodes: White-Light Emission With High Efficiency, [Gong, X](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Gong+X&curr_doc=1/1&Form=FullRecordPage&doc=1/1).; [Wang, S](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Wang+S&curr_doc=1/1&Form=FullRecordPage&doc=1/1).; [Moses, D](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Moses+D&curr_doc=1/1&Form=FullRecordPage&doc=1/1).; [Bazan, G.C](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/1&Form=FullRecordPage&doc=1/1).; [Heeger, A.J](http://wos02.isiknowledge.com/CIW.cgi?SID=W1Oko@MJKC4e47N4JpN&Func=OneClickSearch&field=AU&val=Heeger+AJ&curr_doc=1/1&Form=FullRecordPage&doc=1/1)., *Adv. Mater. (Weinheim, Ger.),* **2005**, *17*, 2053-2057.
129. Solid-State Optical Properties of Linear Polyconjugated Molecules: Pi-Stack Contra Herringbone, Gierschner, J.; Ehni, M.; Egelhaaf, H.J.; Medina, B.M.; Beljonne, D.; Benmansour, H.; Bazan, G.C., *J. Chem. Phys.*, **2005**, *123*, 144914.
130. Chelate Bis(Imino)Pyridine Cobalt Complexes: Synthesis, Reduction, and Evidence for the Generation of Ethene Polymerization Catalysts by Li+ Cation Activation, Kleigrewe, N.; Steffen, W.; Blomker, T.; Kehr, G.; Frohlich, R.; Wibbeling, B.; Erker, G.; Wasilke, J.C.; Wu, G.; Bazan, G.C., *J. Am. Chem. Soc.*, **2005**, *127*, 13955-13968.
131. Two-Photon Absorption in Aqueous Micellar Solutions, Woo, H.Y.; Korystov, D.; Mikhailovsky, A.; Nguyen, T-Q.; Bazan, G.C., *J. Am. Chem. Soc.*, **2005**,*127*, 13794-13795.
132. Solvent Effects on the Two-Photon Absorption of Distyrylbenzene Chromophores, Woo, H.Y.; Liu, B.; Kohler, B.; Korystov, D.; Mikhailovsky, A.; Bazan, G.C., *J. Am. Chem. Soc.*, **2005**, *127*, 14721-14729.
133. Alpha-Iminocarboxamide Nickel Complexes: Synthesis and uses in Ethylene Polymerization, [Rojas, R.S](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Rojas+RS&curr_doc=1/9&Form=FullRecordPage&doc=1/9).; [Wasilke, J.C](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Wasilke+JC&curr_doc=1/9&Form=FullRecordPage&doc=1/9).; [Wu, G](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Wu+G&curr_doc=1/9&Form=FullRecordPage&doc=1/9).; [Ziller, J.W](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Ziller+JW&curr_doc=1/9&Form=FullRecordPage&doc=1/9).; [Bazan, G.C](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/9&Form=FullRecordPage&doc=1/9)., *Organometallics*, **2005**, *24*, 5644-5653.
134. Matrix-Induced Intensity Fluctuations in the Fluorescence from Single Oligo(phenylenevinylene) Molecules, [Summers, M.A](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Summers+MA&curr_doc=1/8&Form=FullRecordPage&doc=1/8).; [Bazan, G.C](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/8&Form=FullRecordPage&doc=1/8).; [Buratto, S.K](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Buratto+SK&curr_doc=1/8&Form=FullRecordPage&doc=1/8)., *J. Am. Chem. Soc.*, **2005**,*127*, 16202-16206.
135. Optimization of the Molecular Orbital Energies of Conjugated Polymers for Optical Amplification of Fluorescent Sensors, [Liu, B](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Liu+B&curr_doc=1/7&Form=FullRecordPage&doc=1/7).; [Bazan, G.C](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/7&Form=FullRecordPage&doc=1/7)., *J. Am. Chem. Soc.*, **2006**, *128*, 1188-1196.
136. Synthesis of Cationic Conjugated Polymers for use in Label-Free DNA Microarrays, Liu, B.; Bazan, G.C., *Nature Protocols*, **2006**, *1*, 1698-1702.
137. Surface-Enhanced Resonance Raman and Hyper-Raman Spectroscopy of Water-Soluble Substituted Stilbene and Distyrylbenzene Chromophores, [Leng, W.N](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Leng+WN&curr_doc=1/6&Form=FullRecordPage&doc=1/6).; [Woo, H.Y](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Woo+HY&curr_doc=1/6&Form=FullRecordPage&doc=1/6).; [Vak, D](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Vak+D&curr_doc=1/6&Form=FullRecordPage&doc=1/6).; [Bazan, G.C](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/6&Form=FullRecordPage&doc=1/6).; [Kelley, A.M](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Kelley+AM&curr_doc=1/6&Form=FullRecordPage&doc=1/6)., *J. Raman Spectroscopy*, **2006**, *37*, 132-141.
138. Red Electrophosphorescence from a Soluble Binaphthol Derivative as Host and Iridium Complex as Guest, [Gong, X](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Gong+X&curr_doc=1/3&Form=FullRecordPage&doc=1/3).; [Benmansour, H](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Benmansour+H&curr_doc=1/3&Form=FullRecordPage&doc=1/3).; [Bazan, G.C](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/3&Form=FullRecordPage&doc=1/3).; [Heeger, A.J](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Heeger+AJ&curr_doc=1/3&Form=FullRecordPage&doc=1/3)., *J. Phys. Chem.*, **2006**, *110 (B)*, 7344-7348.
139. Conjugated-Polymer/DNA Interpolyelectrolyte Complexes for Accurate DNA Concentration Determination, [Hong, J.W](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Hong+JW&curr_doc=1/2&Form=FullRecordPage&doc=1/2).; [Henme, W.L](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Henme+WL&curr_doc=1/2&Form=FullRecordPage&doc=1/2).; [Keller, G.E](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Keller+GE&curr_doc=1/2&Form=FullRecordPage&doc=1/2).; [Rinke, M.T](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Rinke+MT&curr_doc=1/2&Form=FullRecordPage&doc=1/2).; [Bazan, G.C](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/2&Form=FullRecordPage&doc=1/2)., *Adv. Mater. (Weinheim, Ger.),* **2006**, *18*, 878-882.
140. Resonance Raman, Hyper-Raman, and Hyper-Rayleigh Depolarization Ratios and Symmetry Breaking in Solution, [Kelley, A.M](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Kelley+AM&curr_doc=1/1&Form=FullRecordPage&doc=1/1).; [Shoute, L.C.T](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Shoute+LCT&curr_doc=1/1&Form=FullRecordPage&doc=1/1).; [Blanchard-Desce, M](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Blanchard-Desce+M&curr_doc=1/1&Form=FullRecordPage&doc=1/1).; [Bartholomew, G.P](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Bartholomew+GP&curr_doc=1/1&Form=FullRecordPage&doc=1/1).; [Bazan, G.C](http://wos.isiknowledge.com/CIW.cgi?SID=Z4nedLNNaG5a8JnGDBg&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/1&Form=FullRecordPage&doc=1/1)., *Mol. Phys.*, **2006**, *104*, 1239-1247.
141. Tapered Block Copolymers Containing Ethylene and a Functionalized Comonomer, [Diamanti, S.J](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Diamanti+SJ&curr_doc=1/8&Form=FullRecordPage&doc=1/8).; [Khanna, V](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Khanna+V&curr_doc=1/8&Form=FullRecordPage&doc=1/8).; [Hotta, A](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Hotta+A&curr_doc=1/8&Form=FullRecordPage&doc=1/8).; [Coffin, R.C](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Coffin+RC&curr_doc=1/8&Form=FullRecordPage&doc=1/8).; [Yamakawa, D](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Yamakawa+D&curr_doc=1/8&Form=FullRecordPage&doc=1/8).; [Kramer, E.J](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Kramer+EJ&curr_doc=1/8&Form=FullRecordPage&doc=1/8).; [Fredrickson, G.H](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Fredrickson+GH&curr_doc=1/8&Form=FullRecordPage&doc=1/8).; [Bazan, G.C](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/8&Form=FullRecordPage&doc=1/8)., *Macromolecules*, **2006**, *39*, 3270-3274.
142. Cavity Enhanced Faraday Rotation of Semiconductor Quantum Dots, [Li, Y.Q](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Li+YQ&curr_doc=2/7&Form=FullRecordPage&doc=2/7).; [Steuerman, D.W](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Steuerman+DW&curr_doc=2/7&Form=FullRecordPage&doc=2/7).; [Berezovsky, J](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Berezovsky+J&curr_doc=2/7&Form=FullRecordPage&doc=2/7).; [Seferos, D.S](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Seferos+DS&curr_doc=2/7&Form=FullRecordPage&doc=2/7).; [Bazan, G.C](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=2/7&Form=FullRecordPage&doc=2/7).; [Awschalom, D.D](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Awschalom+DD&curr_doc=2/7&Form=FullRecordPage&doc=2/7)., *Appl.* *Phys. Lett.*, **2006**, *88*, 193126.
143. Simulation of Single Molecule Inelastic Electron Tunneling Signals in Paraphenylene-Vinylene Oligomers and Distyrylbenzene[2.2]Paracyclophanes, [Maddox, J.B](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Maddox+JB&curr_doc=2/6&Form=FullRecordPage&doc=2/6).; [Harbola, U](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Harbola+U&curr_doc=2/6&Form=FullRecordPage&doc=2/6).; [Liu, N](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Liu+N&curr_doc=2/6&Form=FullRecordPage&doc=2/6).; [Silien, C](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Silien+C&curr_doc=2/6&Form=FullRecordPage&doc=2/6).; [Ho, W](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Ho+W&curr_doc=2/6&Form=FullRecordPage&doc=2/6).; [Bazan, G.C](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=2/6&Form=FullRecordPage&doc=2/6).; [Mukamel, S](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Mukamel+S&curr_doc=2/6&Form=FullRecordPage&doc=2/6)., *J. Phys. Chem.*, **2006**, *110 (A)*, 6329-6338.
144. Optical Coherence and Theoretical Study of the Excitation Dynamics of a Highly Symmetric Cyclophane-Linked Oligophenylenevinylene Dimmer, [Moran, A.M](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Moran+AM&curr_doc=2/5&Form=FullRecordPage&doc=2/5).; [Maddox, J.B](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Maddox+JB&curr_doc=2/5&Form=FullRecordPage&doc=2/5).; [Hong, J.W](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Hong+JW&curr_doc=2/5&Form=FullRecordPage&doc=2/5).; [Kim, J](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Kim+J&curr_doc=2/5&Form=FullRecordPage&doc=2/5).; [Nome, R.A](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Nome+RA&curr_doc=2/5&Form=FullRecordPage&doc=2/5).; [Bazan, G.C](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=2/5&Form=FullRecordPage&doc=2/5).; [Mukamel, S](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Mukamel+S&curr_doc=2/5&Form=FullRecordPage&doc=2/5).; [Scherer, N.F](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Scherer+NF&curr_doc=2/5&Form=FullRecordPage&doc=2/5)., *J. Chem. Phys.*, **2006**,*124*, 194904.
145. Quadruplex-To-Duplex Transition of G-Rich Oligonucleotides Probed by Cationic Water-Soluble Conjugated Polyelectrolytes, [He, F](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=He+F&curr_doc=2/4&Form=FullRecordPage&doc=2/4).; [Tang, Y.L](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Tang+YL&curr_doc=2/4&Form=FullRecordPage&doc=2/4).; [Yu, M.H](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Yu+MH&curr_doc=2/4&Form=FullRecordPage&doc=2/4).; [Feng, F](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Feng+F&curr_doc=2/4&Form=FullRecordPage&doc=2/4).; [An, L.L](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=An+LL&curr_doc=2/4&Form=FullRecordPage&doc=2/4).; [Sun, H](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Sun+H&curr_doc=2/4&Form=FullRecordPage&doc=2/4).; [Wang, S](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Wang+S&curr_doc=2/4&Form=FullRecordPage&doc=2/4).; [Li, Y.L](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Li+YL&curr_doc=2/4&Form=FullRecordPage&doc=2/4).; [Zhu, D.B](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Zhu+DB&curr_doc=2/4&Form=FullRecordPage&doc=2/4).; [Bazan, G.C](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=2/4&Form=FullRecordPage&doc=2/4)., *J. Am. Chem. Soc.*, **2006**,*128*, 6764-6765.
146. Enhancement of Phosphorescence by Surface-Plasmon Resonances in Colloidal Metal Nanoparticles: The Role of Aggregates, [Ostrowski, J.C](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Ostrowski+JC&curr_doc=2/2&Form=FullRecordPage&doc=2/2).; [Mikhailovsky, A](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Mikhailovsky+A&curr_doc=2/2&Form=FullRecordPage&doc=2/2).; [Bussian, D.A](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Bussian+DA&curr_doc=2/2&Form=FullRecordPage&doc=2/2).; [Summers, M.A](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Summers+MA&curr_doc=2/2&Form=FullRecordPage&doc=2/2).; [Buratto, S.K](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Buratto+SK&curr_doc=2/2&Form=FullRecordPage&doc=2/2).; [Bazan, G.C](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=2/2&Form=FullRecordPage&doc=2/2)., *Adv. Funct. Mater.*, **2006**, *16,* 1221-1227.
147. PNA/dsDNA Complexes: Site Specific Binding and dsDNA Biosensor Applications, [Baker, E.S](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Baker+ES&curr_doc=2/1&Form=FullRecordPage&doc=2/1).; [Hong, J.W](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Hong+JW&curr_doc=2/1&Form=FullRecordPage&doc=2/1).; [Gaylord, B.S](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Gaylord+BS&curr_doc=2/1&Form=FullRecordPage&doc=2/1).; [Bazan, G.C](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=2/1&Form=FullRecordPage&doc=2/1).; [Bowers, M.T](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=C1FID2GeiCC@F6j6o2L&Func=OneClickSearch&field=AU&val=Bowers+MT&curr_doc=2/1&Form=FullRecordPage&doc=2/1)., *J. Am. Chem. Soc.*, **2006**,*128*, 8484-8492.
148. Solvent Effects on Resonant First Hyperpolarizabilities and Raman and Hyper-Raman Spectra of DANS and a Water-Soluble Analog, Shoute, L.C.T.; Woo, H.Y.; Vak, D.; Bazan, G.C.; Kelley, A.M., *J. Chem. Phys.*, **2006**, *125*, 054506.
149. Silver Nanocrystal-Modified Silicon Nanowires as Substrates for Surface-Enhanced Raman and Hyper-Raman Scattering**,** [Leng, W.N](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=X2eHkgfANdmfa7daHjP&Func=OneClickSearch&field=AU&val=Leng+WN&curr_doc=1/3&Form=FullRecordPage&doc=1/3).; [Yasseri, A.A](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=X2eHkgfANdmfa7daHjP&Func=OneClickSearch&field=AU&val=Yasseri+AA&curr_doc=1/3&Form=FullRecordPage&doc=1/3).; [Sharma, S](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=X2eHkgfANdmfa7daHjP&Func=OneClickSearch&field=AU&val=Sharma+S&curr_doc=1/3&Form=FullRecordPage&doc=1/3).; [Li, Z.Y](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=X2eHkgfANdmfa7daHjP&Func=OneClickSearch&field=AU&val=Li+ZY&curr_doc=1/3&Form=FullRecordPage&doc=1/3).; [Woo, H.Y](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=X2eHkgfANdmfa7daHjP&Func=OneClickSearch&field=AU&val=Woo+HY&curr_doc=1/3&Form=FullRecordPage&doc=1/3).; [Vak, D](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=X2eHkgfANdmfa7daHjP&Func=OneClickSearch&field=AU&val=Vak+D&curr_doc=1/3&Form=FullRecordPage&doc=1/3).; [Bazan, G.C](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=X2eHkgfANdmfa7daHjP&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=1/3&Form=FullRecordPage&doc=1/3).; [Kelley, A.M](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=X2eHkgfANdmfa7daHjP&Func=OneClickSearch&field=AU&val=Kelley+AM&curr_doc=1/3&Form=FullRecordPage&doc=1/3)., *Anal. Chem.*, **2006**, *78*, 6279-6282.
150. Single-Molecule Charge-Transport Measurements that Reveal Technique-Dependent Perturbations, [Seferos, D.S](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=X2eHkgfANdmfa7daHjP&Func=OneClickSearch&field=AU&val=Seferos+DS&curr_doc=2/2&Form=FullRecordPage&doc=2/2).; [Blum, A.S](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=X2eHkgfANdmfa7daHjP&Func=OneClickSearch&field=AU&val=Blum+AS&curr_doc=2/2&Form=FullRecordPage&doc=2/2).; [Kushmerick, J.G](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=X2eHkgfANdmfa7daHjP&Func=OneClickSearch&field=AU&val=Kushmerick+JG&curr_doc=2/2&Form=FullRecordPage&doc=2/2).; [Bazan, G.C](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=X2eHkgfANdmfa7daHjP&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=2/2&Form=FullRecordPage&doc=2/2)., *J. Am. Chem. Soc.*, **2006**, *128*, 11260-11267.
151. Multiply Configurable Optical-Logic Systems based on Cationic Conjugated Polymer/DNA Assemblies, [Tang, Y.](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=X2eHkgfANdmfa7daHjP&Func=OneClickSearch&field=AU&val=Tang+YL&curr_doc=2/1&Form=FullRecordPage&doc=2/1)L.; [He, F](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=X2eHkgfANdmfa7daHjP&Func=OneClickSearch&field=AU&val=He+F&curr_doc=2/1&Form=FullRecordPage&doc=2/1).; [Wang, S](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=X2eHkgfANdmfa7daHjP&Func=OneClickSearch&field=AU&val=Wang+S&curr_doc=2/1&Form=FullRecordPage&doc=2/1).; [Li, Y.L](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=X2eHkgfANdmfa7daHjP&Func=OneClickSearch&field=AU&val=Li+YL&curr_doc=2/1&Form=FullRecordPage&doc=2/1).; [Zhu, D.B](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=X2eHkgfANdmfa7daHjP&Func=OneClickSearch&field=AU&val=Zhu+DB&curr_doc=2/1&Form=FullRecordPage&doc=2/1).; [Bazan, G.C](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=X2eHkgfANdmfa7daHjP&Func=OneClickSearch&field=AU&val=Bazan+GC&curr_doc=2/1&Form=FullRecordPage&doc=2/1)., *Adv. Mater. (Weinheim, Ger.),* **2006**, *18,* 2105-2110.
152. Control of Cationic Conjugated Polymer Performance in Light Emitting Diodes by Choice of Counterion, [Yang, R.Q](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=F1olhKNFedM@3jCEDOG&Func=OneClickSearch&field=AU&val=Yang+RQ&ut=000241857200003&auloc=1&fullauth=%20(Yang,%20Renqiang)&curr_doc=1/2&Form=FullRecordPage&doc=1/2).; [Wu, H.B](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=F1olhKNFedM@3jCEDOG&Func=OneClickSearch&field=AU&val=Wu+HB&ut=000241857200003&auloc=2&fullauth=%20(Wu,%20Hongbin)&curr_doc=1/2&Form=FullRecordPage&doc=1/2).; [Cao, Y](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=F1olhKNFedM@3jCEDOG&Func=OneClickSearch&field=AU&val=Cao+Y&ut=000241857200003&auloc=3&fullauth=%20(Cao,%20Yong)&curr_doc=1/2&Form=FullRecordPage&doc=1/2).; [Bazan, G.C](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=F1olhKNFedM@3jCEDOG&Func=OneClickSearch&field=AU&val=Bazan+GC&ut=000241857200003&auloc=4&fullauth=%20(Bazan,%20Guillermo%20C.)&curr_doc=1/2&Form=FullRecordPage&doc=1/2)., *J. Am. Chem. Soc.*, **2006**, *128*, 14422-14423.
153. Comparison of the Signaling and Stability of Electrochemical DNA Sensors Fabricated from 6-or 11-Carbon Self-Assembled Monolayers, [Lai, R.Y](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=F1olhKNFedM@3jCEDOG&Func=OneClickSearch&field=AU&val=Lai+RY&ut=000242340300068&auloc=1&fullauth=%20(Lai,%20Rebecca%20Y.)&curr_doc=1/1&Form=FullRecordPage&doc=1/1).; [Seferos, D.S](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=F1olhKNFedM@3jCEDOG&Func=OneClickSearch&field=AU&val=Seferos+DS&ut=000242340300068&auloc=2&fullauth=%20(Seferos,%20Dwight%20S.)&curr_doc=1/1&Form=FullRecordPage&doc=1/1).; [Heeger, A.J](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=F1olhKNFedM@3jCEDOG&Func=OneClickSearch&field=AU&val=Heeger+AJ&ut=000242340300068&auloc=3&fullauth=%20(Heeger,%20Alan%20J.)&curr_doc=1/1&Form=FullRecordPage&doc=1/1).; [Bazan, G.C](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=F1olhKNFedM@3jCEDOG&Func=OneClickSearch&field=AU&val=Bazan+GC&ut=000242340300068&auloc=4&fullauth=%20(Bazan,%20Guillermo%20C.)&curr_doc=1/1&Form=FullRecordPage&doc=1/1).; [Plaxco, K.W](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=F1olhKNFedM@3jCEDOG&Func=OneClickSearch&field=AU&val=Plaxco+KW&ut=000242340300068&auloc=5&fullauth=%20(Plaxco,%20Kevin%20W.)&curr_doc=1/1&Form=FullRecordPage&doc=1/1)., *Langmuir*, **2006**, *22*, 10796-10800.
154. Aggregation Mediated Optical Properties of pH-Responsive Anionic Conjugated Polyelectrolytes, Wang, F.K.; Bazan, G.C., *J. Am. Chem. Soc.*, **2006**, *128*, 15786-15792.
155. Alpha,Omega-Dithiol Oligo(Phenylenevinylene)s for the Preparation of High-Quality Pi-Conjugated Self-Assembled Monolayers and Nanoparticle Functionalized Electrodes, Seferos, D.S.; Lay, R.Y.; Plaxco, K.W.; Bazan, G.C., *Adv. Funct. Mater.*,**2006**, *16*, 2387-2392.
156. Control of Interchain Contacts, Solid-State Fluorescence Quantum Yield and Charge Transport of Cationic Conjugated Polyelectrolytes by Choice of Anion, Yang, R.W.; Garcia, A.; Korystov, D.; Mikhailovsky, A.; Bazan, G.C., Nguyen, T-Q., *J. Am. Chem. Soc.,* **2006**, *128*, 16532-16539.
157. Rapid Proton Coupled Electron Transfer of Hydroquinone through Phenylenevinylene Bridges, Trammell, S.A.; Seferos, D.S.; Moore, M.; Lowy, D.A.; Bazan, G.C.; Kushmerick, J.G.; Lebedev, N., *Langmuir*, **2006**, *23,* 942-948.
158. Method for Increasing the Photoconductive Response in Conjugated Polymer/Fullerene Composites, Peet, J.; Soci, C.; Coffin, R.C.; Nguyen, T-Q.; Mikhailovsky, A.; Moses, D.; Bazan, G.C., *Appl. Phys. Lett.,*  **2006**, *89*, 252105.
159. Cationic Conjugated Polyelectrolytes with Molecular Spacers for Efficient Fluorescence Energy Transfer to Dye-Labeled DNA, Woo, H.Y.; Vak, D.; Korystov, D.; Mikhailovsky, A.; Bazan, G.C.; Kim, D.Y., *Adv. Funct. Mater.*,**2007**, *17*, 290-295.
160. Long Lifetime Polymer Light-Emitting Electrochemical Cells, Shao, Y.; Bazan, G.C.; Heeger, A.J., *Adv. Mater. (Weinheim, Ger.),* **2007**, *19*, 365-370.
161. Tetrahydrofuran Activates Fluorescence Resonant Energy Transfer from a Cationic Conjugated Polyelectrolyte to Fluorescein-Labeled DNA in Aqueous Media, [Liu, B](http://apps.isiknowledge.com:80/WoS/CIW.cgi?SID=3ACA3aFhBHPCP2cK@BK&Func=OneClickSearch&field=AU&val=Liu+B&ut=000245564100006&auloc=1&fullauth=%20(Liu,%20Bin)&curr_doc=2/1&Form=FullRecordPage&doc=2/1).; [Bazan, G.C](http://apps.isiknowledge.com:80/WoS/CIW.cgi?SID=3ACA3aFhBHPCP2cK@BK&Func=OneClickSearch&field=AU&val=Bazan+GC&ut=000245564100006&auloc=2&fullauth=%20(Bazan,%20Guillermo%20C.)&curr_doc=2/1&Form=FullRecordPage&doc=2/1)., *Asian J. Chem.,* **2007**, *2*, 499-504.
162. A Heterogeneous PNA-Based SERS Method for DNA Detection, Fabris, L.; Dante, M.; Braun, G.; Lee, S.J.; Reich, N.O.; Moskovits, M.; Nguyen, T-Q.; Bazan, G.C., *J. Am. Chem. Soc.,* **2007**, *2*, 6086- 6087.
163. Chemically Patterned Microspheres for Controlled Nanoparticle Assembly in the Construction of SERS Hot Spots, Braun, G.; Pavel, I.; Morrill, A.R.; Seferos, D.S.; Bazan, G.C.; Reich, N.O.; Moskovits, M., *J. Am. Chem. Soc.,* **2007**, *25*, 7760-7761.
164. Efficiency Enhancement in Low-Bandgap Polymer Solar Cells by Processing with Alkane Dithiols, Peet, J.; Kim, J.Y.; Coates, N.E.; Ma, W.L.; Moses, D.; Heeger, A.J.; Bazan, G.C., *Nat. Mater.*, **2007**, *7*, 497-500.
165. Heterogeneous Electron Transfer of Quinone-Hydroquinone in Alkaline Solutions at Gold Electrode Surfaces: Comparison of Saturated and Unsaturated Bridges, Trammell, S.A.; Lowy, D.A.; Seferos, D.S.; Moore, M.; Bazan, G.C.; Lebedev, N., *J. ElectroChem.*, **2007**, *1*, 33-38.
166. Energy Transfer between a Cationic-Conjugated Poly(fluorene-*co*-phenylene) and Thiazole Orange for DNA Hybridization Detection Involving G-rich Sequences, Liu, B.; Bazan, G.C., *Macromol. Rapid Commun.,* **2007**, *28*, 1804-1808.
167. Pseudo-Tetrablock Copolymers with Ethylene and a Functionalized Comonomer, Coffin, R.C.; Diamanti, S.J.; Hotta, A.; Khanna, V.; Kramer, E.J.; Fredrickson, G.H.; Bazan, G.C., *Chem Commun.,* **2007**, *34*, 3550-3552.
168. Design of Cationic Conjugated Polyelectrolytes for DNA Concentration Determination, Chi, C.Y.; Mikhailovsky, A.; Bazan, G.C., *J. Am. Chem. Soc.,* **2007**, *36*, 11134-11145.
169. Ion Motion in Conjugated Polyelectrolyte Electron Transporting Layers, Hoven, C.; Yang, R.; Garcia, A.; Heeger, A. J.; Nguyen, T.Q.; Bazan, G.C., *J. Am. Chem. Soc.,* **2007**, *36*, 10976-10977.
170. Single-Component Alpha-Iminocarboxamide Nickel Ethylene Polymerization and Copolymerization Initiators, Rojas, R.; Barrerra-Galland, G.; Wu, G.; Bazan, G.C., *Organometallics,* **2007**, *26*, 5339-5345.
171. A Zwitterionic Nickel-Olefin Initiator for the Preparation of High Molecular Weight Polyethylene, Chen, Y.; Boardman, B.M.; Wu, G.; Bazan, G.C., *J. Organomet. Chem.,* **2007**, *692*, 4745-4749.
172. Novel Organic Materials through Control of Multichromophore Interactions, Bazan, G.C., *J.* *Org. Chem.,* **2007**, *72*, 8615-8635.
173. Collective Response from a Cationic Tetrahedral Fluorene for Label-free DNA Detection, Liu, B.; Dan, T.T.T.; Bazan, G.C., *Adv. Funct. Mater.,* **2007**, *17*, 2432-2438.
174. Simulation of Conductance and Current-Induced Fluorescence of Conjugated Chromophores, Maddox, J.B.; Harbola, U.; Bazan, G.C.; Mukamel, S., *Chem. Phys. Lett.,* **2007**, *450,* 144-150.
175. Chemical Imaging of Single 4,7,12,15-Tetrakis[2.2]Paracyclophane by Spatially Resolved Vibrational Spectroscopy, Liu, N.; Silien, C.; Ho, W.; Maddox, J.B.; Mukamel, S.; Liu, B.; Bazan, G.C., *J. Chem. Phys.,* **2007**, *127,* 244711.
176. Application of Cationic Conjugated Polymers in Microarrays using Label-Free DNA Targets, Sun, C.J.; Gaylord, B.S.; Hong, J.W.; Liu, B.; Bazan, G. C., *Nature Protocols*, **2007**, *2*, 2148-2151.
177. Reversible Switching among Three Adsorbate Configurations in a Single [2.2] Paracyclophane-Based Molecule, Sillen, C.; Liu, N.; Ho, W.; Maddox, J.B.; Mukamel, S.; Liu, B.; Bazan, G.C., *Nano Lett.*, **2008**, *8*, 208-213.
178. A New Design Strategy for Organic Optoelectronic Materials by Lateral Boryl Substitution, Elbing, M.; Bazan, G.C., *Angew. Chem., Int. Ed. Engl.*,**2008**, *47*, 834-838.
179. Thermophysical Properties of Conjugated Polyelectrolytes, Ortony, J.H.; Yang, R.Q.; Brzeinski, J.Z.; Edman, L.; Nguyen, T-Q.; Bazan, G.C., *Adv. Mater. (Weinheim, Ger.),* **2008**, *20*, 298-302.
180. Fluorescence Energy Transfer to Dye-Labeled DNA from a Conjugated Polyelectrolyte Prequenched with a Water-Soluble C-60 Derivative, Li, H.; Bazan, G.C., *Macromoleules,* **2008**, *41*, 1531-1536.
181. Direct Visualization of Glucose Phosphorylation with a Cationic Polythiophene, Tang, Y. L.; Teng, F.; Yu, M.H.; An, L.L.; He, F.; Wang, S.; Li, H. L.; Zhu, D.B.; Bazan, G.C., *Adv. Mater. (Weinheim, Ger.),* **2008**, *20*, 703-705.
182. Efficient Single Active Layer Electrophosphorescent White Polymer Light-Emitting Diodes, Wu, H.B.; Zou, J.H.; Liu, F.; Wang, L.; Mikhaillovsky, A.; Bazan, G.C.; Yang, W.; Cao, Y., *Adv. Mater. (Weinheim, Ger.),* **2008**, *20*, 696-702.
183. Processing Additives for Improved Efficiency from Bulk Heterojunction Solar Cells, Lee, J.K.; Ma, W.L.; Brabec, C.J.; Yuen, J.; Moon, J.S.; Kim, J.Y.; Lee, K.; Bazan, G.C.; Heeger, A.J., *J. Am. Chem. Soc.,* **2008**, *130*, 3619-3623.
184. Conjugated Oligoelectrolyte Electron Transport/Injection Layers for Organic Optoelectronic Devices, Yang, R.Q.; Xu, Y.H.; Dang, X.D.; Nguyen, T-Q.; Cao, Y.; Bazan, G.C., *J. Am. Chem. Soc.,* **2008**, *130*, 3282-3283.
185. Remote Activation of Nickel Complexes by Coordination of B(C6F5)3 to an Exocyclic Carbonitrile Functionality, Boardman, B.M., Valderrama, J.M., Munoz, F., Wu, G., Bazan, G.C., *Organometallics,* **2008**, *27*, 1671-1674.
186. Influence of Steric and Electronic Perturbations on the Polymerization Activities of α-Iminocarboxamide Nickel Complexes, Azoulay, J.D., Itigaki, K., Wu, G., Bazan, G.C. *Organometallics*, **2008**, *27*, 2273-2280.
187. LED to LEC Transition Behavior in Polymer Light-Emitting Devices, Shao, Y., Bazan, G.C., Heeger, A.J., *Adv. Mater. (Weinheim, Ger.),* **2008**, *20*, 1191-1193.
188. Water Soluble Poly(fluorene) Homopolymers and Copolymers for Chemical and Biological Sensors, Bazan, G.C., Wang, S., *Springer Series in Materials Science,* **2008**, *107*, 1-37.
189. Water-Soluble Polyelectrolytes for FRET-based DNA Detection, Woo, H.Y.; Nag, O.K.; Kim, J.; Kang, M.; Bazan, G.C., *Mol. Cryst. Liq. Cryst.,* **2008**, *486*, 1286-1291.
190. Water-Soluble Two-Photon Fluorophores Based on Paracyclophane, Woo, H.Y.; Bazan, G.C., *Mol. Cryst. Liq. Cryst.*, **2008**, *485*, 928-933.
191. Controlled Beta-Phase Formation in Poly(9,9-di-n-octylfluorene) by Processing with Alkyl Additives, Peet, J.; Brocker, E.; Xu, Y.H.; Bazan, G.C., *Adv. Mater. (Weinheim, Ger.),* **2008**, *20*, 1882-1892.
192. Efficacy of TiOx Optical Spacer in Bulk-Heterojunction Solar Cells Processed with 1,8-Octanedithiol, Lee, J.K.; Coates, N.E.; Cho, S.; Cho, N.S.; Moses, D.; Bazan, G.C.; Lee, K.; Heeger, A.J., *Appl. Phys. Lett.*, **2008**, *92*, 243308.
193. Insight into the Raman Shifts and Optical Absorption Changes upon Annealing Polymer/Fullerene Solar Cells, Yun, J.J.; Peet, J.; Cho, N.S.; Bazan, G.C.; Lee, S.J.; Moskovits, M., *Appl. Phys. Lett.*, **2008**, *92*, 251912.
194. Structural Characterization of Conjugated Polyelectrolyte Electron Transport Layers by NEXAFS Spectroscopy, Park, J.; Yang, R.Q.; Hoven, C.V.; Garcia, A.; Fischer, D.A.; Nguyen, T-Q.; Bazan, G.C.; DeLongchamp, D.M., *Adv. Mater. (Weinheim, Ger.),* **2008**, *20*, 2491-2496.
195. New Polyethylene Macroinitiators and Their Subsequent Grafting by Atom Transfer Radical Polymerization, Schneider, Y.; Azoulay, J.D.; Coffin, R.C.; Bazan, G.C., *J. Am. Chem. Soc.*, **2008**, *130*, 10464-10465.
196. 1,8-Octanedithiol as a Processing Additive for Bulk Heterojunction Materials: Enhanced Photoconductive Response, Coates, N.E.; Hwang, I.W.; Peet, J.; Bazan, G.C.; Moses, D.; Heeger, A.J., *Appl. Phys. Lett.,* **2008**, *93*, 072105.
197. SERS Aptatags: New Responsive Metallic Nanostructures for Heterogeneous Protein Detection by Surface Enhanced Raman Spectroscopy, Fabris, L.; Dante, M.; Nguyen, T-Q.; Tok, J.B.H.; Bazan, G.C., *Adv. Funct. Mater.*, **2008**, *18*, 2518-2525.
198. Improved Electron Injection in Polymer Light-Emitting Diodes Using Anionic Conjugated Polyelectrolyte, Jin, Y.; Bazan, G.C.; Heeger, A.J.; Kim, J.Y.; Lee, K., *Appl. Phys. Lett.*, **2008**, *93*, 123304.
199. Electron Injection into Organic Semiconductor Devices from High Work Function Cathodes, Hoven, C.V.; Yang, R.Q.; Garcia, A.; Crockett, V.; Heeger, A.J.; Bazan, G.C.; Nguyen, T-Q., *Proc. Nat. Acad. Sci. USA*, **2008**, *105*, 12730-12735.
200. Alpha, Omega-Dihexylthienoselenophene Derivatives: A New Class of High-Performance Semiconductors for Organic Thin-Film Transistors, Cho, N.S.; Lee, S.K.; Seo, J.H.; Elbing, M.; Azoulay, J.D.; Park, J.; Cho, S.; Heeger, A.J.; Bazan, G.C., *J. Mat. Chem.*, **2008**, *18*, 4909-4911.
201. Organic Thin-Film Transistors based on Alpha, Omega-Dihexyldithienyl-Dihydrophenanthrene, Cho, N.S.; Cho, S.; Elbing, M.; Lee, J.K.; Yang, R.; Seo, J.H.; Lee, K.; Bazan, G.C.; Heeger, A.J., *Chem. Mater.*, **2008**, *20*, 6289-6291.
202. Recent Applications of Conjugated Polyelectrolytes in Optoelectronic Devices, Hoven, C.V.; Garcia, A.; Bazan, G.C.; Nguyen, T-Q., *Adv. Mater. (Weinheim, Ger.),* **2008**, *20*, 3793-3810.
203. Anatomy and Growth Characteristics of Conjugated Polyelectrolyte/DNA Aggregates, Chi, C.; Chworos, A.; Zhang, J.; Mikhailovsky, A.; Bazan, G.C., *Adv. Funct. Mater.*, **2008**, *18*, 3606-3612.
204. In Situ Conjugated Polyelectrolyte Formation, Elbing, M.; Garcia, A.; Urban, S.; Nguyen, T-Q.; Bazan, G.C., *Macromolecules*,**2008**, *41*, 9146-9155.
205. Photocurrent Hysteresis by Ion Motion within Conjugated Polyelectrolyte Electron Transporting Layers, Park, J.; Hoven, C.V.; Yang, R.Q; Cho, N.; Wu, H.; Nguyen, T-Q.; Bazan, G.C., *J. Mater. Chem.*, **2009**, *19*, 211-214.
206. Solvent Effects on Resonance Raman and Hyper-Raman Scatterings for a Centrosymmetric Distyrylbenzene and Relationship to Two-Photon Absorption, Leng, W.N.; Bazan, G.C.; Kelley, A.M., *J. Chem. Phys.*, **2009**, *130*, 044501.
207. Solvent Effects on the Architecture and Performance of Polymer White-Light-Emitting Diodes with Conjugated Oligoelectrolyte Electron-Transport Layers, Xu, Y.; Yang, R.Q.; Peng, J.B.; Mikhailovsky, A.A.; Cao, Y.; Nguyen, T-Q.; Bazan, G.C., *Adv. Mater. (Weinheim, Ger.),* **2009**, *21*, 584-588.
208. Nickel -Keto--diimine Initiators for Olefin Polymerization, Azoulay, J.D.; Rojas, R.S.; Serrano, A.V.; Ohtaki, H.; Galland, G.B.; Wu, G.; Bazan, G.C., *Angew. Chem. Int. Ed.*, **2009**, *48*, 1089-1092.
209. Endohedral Fullerenes for Organic Photovoltaic Devices, Ross, R.B.; Cardona, C.M.; Guldi, D.M.; Sankaranarayanan, S.G.; Reese, M.O.; Kopidakis, N.; Peet, J.; Walker, B.; Bazan, G.C.; Van Keuren, E.; Holloway, B.C.; Drees, M., *Nat. Mater.*, **2009**, *8*, 208-212.
210. Electronic Properties at Gold/Conjugated-Polyelectrolyte Interfaces, Seo, J.H.; Yang, R.Q.; Brzezinski, J.Z.; Walker, B.; Bazan, G.C.; Nguyen, T-Q., *Adv. Mater. (Weinheim, Ger.),* **2009**, *21*, 1006-1011.
211. Conjugated Oligoelectrolyte/ssDNA Aggregates: Self-Assembled Multicomponent Chromophores for Protein Discrimination, Li, H.P.; Bazan, G.C., *Adv. Mater. (Weinheim, Ger.),* **2009**, *21*, 964-967.
212. Binding Modes of a Dimethyliminopentanone Ligand on Nickel Pre-Catalysts Toward Olefin Polymerization, Boardman, B.M.; Wu, G.; Rojas, R.; Bazan, G.C., *J. Organomet. Chem.*, **2009**, *694*, 1380-1384.
213. The Role of Processing in the Fabrication and Optimization of Plastic Solar Cells, Peet, J.; Senatore, M.L.; Heeger, A.J.; Bazan, G.C., *Adv. Mater. (Weinheim, Ger.),* **2009**, *21*, 1521-1527.
214. An Optical Approach for Drug Screening based on Light-Harvesting Conjugated Polyelectrolytes, An, L.L.; Liu, L.B.; Wang, S.; Bazan, G.C., *Angew. Chem. Int. Ed.*, **2009**, *48*, 4372-4375.
215. Characterization of Multicomponent Polymer Trilayers with Resonant Soft X-Ray Reflectivity, Ade, H.; Wang, C.; Garcia, A.;Yan, H.; Sohn, K.E.; Hexemer, A.; Bazan, G.C.; Nguyen, T-Q.; Kramer, E.J., *J. Poly. Sci., Part B: Polym. Phys.*, **2009**, *47*, 1291-1299.
216. Molecular Design, Device Function and Surface Potential of Zwitterionic Electron Injection Layers, Li, H.P.; Xu, Y.H.; Hoven, C.V.; Li, C.Z; Seo, J.H.; Bazan, G.C., *J. Am. Chem. Soc.*, **2009**, *131*, 8903-8912.
217. Generalized Approach to SERS-Active Nanomaterials via Controlled Nanoparticle Linking, Polymer Encapsulation, and Small-Molecule Infusion, Braun, G.B.; Lee, S.J.; Laurence, T.; Fera, N.; Fabris, L.; Bazan, G.C.; Moskovits, M.; Reich, N.O., *J. Phys. Chem. (C)*, **2009**, *113*, 13622-13629.
218. Band Gap Control in Conjugated Oligomers via Lewis Acids, Welch, G.C.; Coffin, R.; Peet, J.; Bazan, G.C., *J. Am. Chem. Soc.*, **2009**, *131*, 10802-10803.
219. Interfacial Widths of Conjugated Polymer Bilayers, Wang, C.; Garcia, A.; Yan, H.P.; Sohn, K.E.; Hexemer, A.; Nguyen, T-Q.; Bazan, G.C.; Kramer, E.J.; Ade, H., *J. Am. Chem. Soc.*, **2009**, *131*, 12538-12539.
220. Living Polymerization of Ethylene and alpha-olefins using a Nickel -Keto--Diimine Initiator, Azoulay, J.D.; Schneider, Y.; Galland, G.B.; Bazan, G.C, *Chem. Commun.*, **2009**, *41*, 6177-6179.
221. Streamlined Microwave-Assisted Preparation of Narrow-Bandgap Conjugated Polymers for High-Performance Bulk Heterojunction Solar Cells, Coffin, R.C.; Peet, J.; Rogers, J.; Bazan, G.C., *Nature Chemistry*, **2009**, *1*, 657-661.
222. Alpha-Iminocarboxamidato Nickel Complexes, Boardman, B.M.; Bazan, G.C., *Acc. Chem. Res.*, **2009**, *42*, 1597-1606.
223. Novel Elastomers Prepared by Grafting *n*-Butyl Acrylate from Polyethylene Macroinitiator Copolymers, Schneider, Y.; Lynd, N.A.; Kramer, E.J.; Bazan, G.C., *Macromolecules*, **2009**, *42*, 8763-8768.
224. “Plastic" Solar Cells: Self-Assembly of Bulk Heterojunction Nanomaterials by Spontaneous Phase Separation, Peet, J.; Heeger, A.J.; Bazan, G.C., *Acc. Chem. Res.*, **2009**, *42*, 1700-1708.
225. Synthesis and Characterization of Low-Bandgap Cyclopentadithiophene-Biselenophene Copolymer and Its Use in Field-Effect Transistor and Polymer Solar Cells, Lee, S.K.; Cho, N.S.; Cho, S.; Moon, S.J.; Lee, J.K.; Bazan, G.C., *J. Poly. Sci., Part A: Polym. Chem.*, **2009**, *47*, 6873-6882.
226. A New Approach to Efficiency Enhancement of Polymer Light-Emitting Diodes by Deposition of Anode Buffer Layers in the Presence of Additives, Wu, H.B.; Zou, J.H.; An, D.; Liu, F.; Yang, W.; Peng, J.B.; Mikhailovsky, A.; Bazan, G.C.; Cao, Y., *Organic Electronics*, **2009**, *10*, 1562-1570.
227. Improved Injection in n-Type Organic Transistors with Conjugated Polyelectrolytes, Seo, J.H.; Gutacker, A.; Walker, B.; Cho, S.N.; Garcia, A.; Yang, R.Q.; Nguyen T-Q.; Heeger, A.J.; Bazan, G.C., *J. Am. Chem. Soc.*, **2009**, *131*, 18220-18221.
228. Streamlined Microwave-Assisted Preparation of Narrow-Bandgap Conjugated Polymers for High-Performance Bulk Heterojunction Solar Cells, Coffin, R. C.; Peet, J.; Rogers, J.; Bazan, G. C. *Nature Chemistry*, **2009**, *1*, 657-661.
229. Exciton-Exciton Annihilation in Mixed-Phase Polyfluorene Films, Shaw, P.E.; Ruseckas, A.; Peet, J.; Bazan, G.C.; Samuel, D.W., *Adv. Funct. Mater.*, **2010**, *20*, 155-161.
230. All-Conjugated Polyelectrolyte Block Copolymers, Gutacker, A.; Adamczyk, S.; Helfer, A.; Garner, L.E.; Evans, R.C.; Fonseca, S.M.; Knaapila, M.; Bazan, G.C.; Burrows, H.D.; Scherf, U., *J. Mater. Chem.*, **2010**, *20*, 1423-1430.
231. Conjugated Polyelectrolyte-Metal Nanoparticle Platforms for Optically Amplified DNA Detection, Wang, Y.S.; Liu, B.; Mikhailovsky, A.; Bazan, G.C., *Adv. Mater. (Weinheim, Ger.),* **2010**, *22*, 656-659.
232. Chemically Fixed p-n Heterojunctions for Polymer Electronics by means of Covalent B-F Bond Formation, Hoven, C.V.; Wang, H.P.; Elbing, M.; Garner, L.E.; Winkelhaus, D.; Bazan, G.C., *Nature Materials*, **2010**, *9*, 249-252.
233. Improved Performance of Polymer Bulk Heterojunction Solar Cells Through the Reduction of Phase Separation via Solvent Additives, Hoven C.V.; Dang, X.D.; Coffin, R.C.; Peet, J.; Nguyen, T-Q.; Bazan, G.C., *Adv. Mater. (Weinheim, Ger.),* **2010**, *22*, E63-E66.
234. Origin of the Enhanced Open-Circuit Voltage in Polymer Solar Cells via Interfacial Modification using Conjugated Polyelectrolytes, He, C.; Zhong, C.M.; Wu, H.; Yang, R.Q.; Yang, W.; Huang, F.; Bazan, G.C.; Cao, Y., *J. Mat. Chem.*, **2010**, *20*, 2617-2622.
235. Microstructural Characterization of Poly(1-hexene) Obtained using a Nickel -Keto--diimine Initiator, Azoulay, J.D.; Bazan, G.C.; Galland, G.B., *Macromolecules*, **2010**, *43*, 2794-2800.
236. Surface Effects on the Thin Film Morphology of Block Copolymers with Bulk Order- Order Transitions, Sohn, K.E.; Kojio, K.; Berry, B.C.; Karim, A.; Coffin, R.C.; Bazan, G.C.; Kramer, E.J.; Sprung, M.; Wang, J., *Macromolecules*, **2010**, *43*, 3406-3414.
237. Modification of the Optoelectronic Properties of Membranes via Insertion of Amphiphilic Phenylenevinylene Oligoelectrolytes, Garner, L.E.; Park, J.; Dyar, S.M.; Chworos, A.; Sumner, J.J.; Bazan, G.C., *J. Am. Chem. Soc.*, **2010**, *132*, 10042-10052.
238. Aptatag-Based Multiplexed Assay for Protein Detection by Surface-Enhanced Raman Spectroscopy, Fabris, L.; Schierhorn, M.; Moskovits, M.; Bazan, G.C., *Small*, **2010**, *6,* 1550-1557.
239. Conjugated polyelectrolytes for organic light emitting transistors, Seo, J.H.; Namdas. E.B.; Gutacker, A.; Heeger, A.J.; Bazan, G.C.*, Appl. Phys. Lett.,* **2010**,  *9,* 043303.
240. Reconstruction of Conjugated Oligoelectrolyte Electron Injection Layers, Chen, Z.; Dang, X.D.; Gutacker, A.; Garcia, A.; Li, H.P.; Xu, Y.H.; Ying, L.; Nguyen, T-Q.; Bazan, G.C., *J. Am. Chem. Soc.*, **2010**, *132*, 12160-12162.
241. Identification of Bacteria by Conjugated Oligoelectrolyte/Single-Stranded DNA Electrostatic Complexes, Duarte, A.; Chworos, A.; Flagan, S.F.; Hanrahan G.; Bazan, G.C.; *J. Am. Chem. Soc.*, **2010**, *132*, 12562-12564.
242. Trifluoromethyl-Substituted Conjugated Oligoelectrolytes, Ren, Y.; Bazan, G.C.; *Chem.--Eur. J.,* **2010**, *16*, 11028-11036.
243. Binuclear Initiators for the Telechelic Synthesis of Elastomeric Polyolefins, Coffin, R.C.; Schneider, Y.; Kramer E.J.; Bazan, G.C., *J. Am. Chem. Soc.*, **2010**, *132*, 13869-13878.
244. Effect of Processing Additive on the Nanomorphology of a Bulk Heterojunction Material, Moon, J.S.; Takacs, C.J.; Cho, S.; Coffin, R.C.; Kim, H.; Bazan, G.C.; Heeger, A.J., *Nano Lett.*, **2010**, *10*, 4005-4008.
245. Ketene Functionalized Polyethylene: Control of Cross-Link Density and Material Properties, Leibfarth, F.A.; Schneider, Y.; Lynd, N.A.; Schultz, A.; Moon, B.; Kramer, E.J.; Bazan, G.C.; Hawker, C., *J. Am. Chem. Soc.*, **2010**, *132*, 14706-14709.
246. Well-Defined Cationic Methallyl alpha-Keto-beta-Diimine Complexes of Nickel, Azoulay, J.D.; Koretz, Z.A.; Wu, G.A.; Bazan, G.C., *Angew. Chem. Int. Ed.*, **2010**, *49*, 7890-7894.
247. CdSe Nanorods Dominate Photocurrent of Hybrid CdSe-P3HT Photovoltaic Cell, Shierhorn, M.; Boettcher, S.W.; Peet, J.H.; Matioli, E.; Bazan, G.C.; Stucky, G.D.; Moskovits, M., *ACS Nano*, **2010**, *4*, 6132-6136.
248. Higher Molecular Weight Leads to Improved Photoresponsivity, Charge Transport and Interfacial Ordering in a Narrow Bandgap Semiconducting Polymer, Tong, MH.; Cho, S.; Rogers, J.T.; Schmidt, K.; Hsu, BBY.; Moses, D.; Coffin, R.C.; Kramer, E.J.; Bazan, G.C.; Heeger, A.J., *Adv. Funct. Mater.*, **2010**, *20*, 3959-3965.
249. Antitags: Nanostructured Tools for Developing SERS-Based ELISA Analogs, Guarrotxena, N.; Liu, B.; Fabris, L.; Bazan, G.C. *Adv. Mater. (Weinheim, Ger.),* **2010,** *22,* 4954-4958.
250. Recent Advances in Conjugated Polyelectrolytes for Emerging Optoelectronic Applica-tions, Duarte, A.; Pu, K.Y.; Liu, B.; Bazan, G.C., *Chem. Mater.,* **2011**, *23*, 501-515.
251. Synthesis and Characterization of Semicrystalline Polyethylene-graft-Poly(acrylic acid) Copolymers, Schneider, Y; McVerry, B.T.; Bazan, G.C., *Macromol. Chem. Phys.,* **2011**, *212*, 507-514.
252. A Dithienosilole-Benzooxadiazole Donor-Acceptor Copolymer for Organic Solar Cells, Caputo, B.J.A.; Welch, G.C.; Kamkar, D.A.; Henson, Z.B.; Nguyen, T.-Q.; Bazan, G.C., *Small*, **2011**, *7*, 1422-1426.
253. Electrochromic devices and thin film transistors from a new family of ethylenedioxythiophene based conjugated polymers, Li, Z.T.; Zhang, Y.; Holt, A.L.; Kolasa, B.P.; Wehner, J.G.; Hampp, A.; Bazan, G.C.; Nguyen, T.-Q.; Morse, D.E., *New. J. Chem.*, **2011**, *35*, 1327-1334.
254. Electrochemical Considerations for Determining Absolute Frontier Orbital Energy Levels of Conjugated Polymers for Solar Cell Applications, Cardona, C.M; Li, W.; Kaifer, A.E.; Stockdale, D.; Bazan, G.C., *Adv. Mater.*, **2011**, *23*, 2367-2371.
255. Structural Order in Bulk Heterojunction Films Prepared with Solvent Additives, Rogers, J.T.; Schmidt, K.; Toney, M.F.; Kramer, E.J.; Bazan, G.C., *Adv. Mater.*, **2011**, *23*, 2284-2288.
256. Materials Research at the University of California, Santa Barbara, Auston, D.H.; Frederickson, G.H.; Hawker, C.J.; Morse, D.E.; Pollock, T.M., Seshadri, R.; Bazan, G.C., *Adv. Mater.*, **2011*,*** *23*, 2256-2259.
257. Improved High-Efficiency Organic Solar Cells via Incorporation of a Conjugated Polyelectrolyte Interlayer, Seo, J.W.; Gutacker, A.; Sun, Y.M.; Wu, H.B.; Huang, F.; Cao, Y.; Scherf, U.; Heeger, A.J.; Bazan, G.C., *J. Am. Chem. Soc.*, **2011**, *133*, 8416-8419.
258. Self-Assembly of an Optically Active Conjugated Oligoelectrolyte, Ortony, J.H.; Chatterjee, T.; Garner, L.E.; Chworos, A.; Mikhailovsky, A.; Kramer, E.J.; Bazan, G.C., *J. Am. Chem. Soc.,* **2011**, *133*, 8380-8387.
259. Lewis Acid Adducts of Narrow Band Gap Conjugated Polymers, Welch, G.C.; Bazan, G.C., *J. Am. Chem. Soc.,* **2011**, *133*, 4632-4644.
260. Solubility-Controlled Structural Ordering of Narrow Bandgap Conjugated Polymers, Park, Y.D.; Park, J.K.; Seo, J.H.; Yuen, J.D.; Lee, W.H.; Cho, K.; Bazan, G.C., *Adv. Energy Mater.,* **2011**, *1*, 63-67.
261. End-capping Effect of a Narrow Bandgap Conjugated Polymer on Bulk Heterojunction Solar Cells, Park, J.K.; Jo, J.; Seo, J.H.; Moon, J.S.; Park, Y.D.; Lee, K.; Heeger, A.J.; Bazan, G.C., *Adv. Mater., (Weinheim, Germany),* **2011**, *23*, 2430-2435.
262. DNA Electron Injection Interlayers for Polymer Light-Emitting Diodes, Zalar, P.; Kamkar, D.; Naik, R.; Ouchen, F.; Grote, J.G.; Bazan, G.C.; Nguyen, T-Q., *J. Am. Chem. Soc.,* **2011**, *133*, 11010-11013.
263. Solution-Processed Organic Light-Emitting Transistors Incorporating Conjugated Polyelectrolytes, Seo, J.H.; Namdas, E.B.; Gutacker, A.; Heeger, A.J.; Bazan, G.C., *Adv. Funct. Mater.*, **2011**, *21*, 3667-3672.
264. Antibody-Functionalized SERS Tags with Improved Sensitivity, Guarrotxena, N.; Bazan, G.C., *Chem. Commun.*, *(Cambridge, United Kingdom),* **201**1, *47*, 8784-8786.
265. Fullerene-Carbene Lewis Acid-Base Adducts, Li, H.; Risko, C.; Seo, J.H.; Campbell, C.; Wu, G.; Bredas, J.-L.; Bazan, G.C., *J. Am. Chem. Soc.,* **2011**, *133*, 12410-12413.
266. High Sensitivity Surface-Enhanced Raman Scattering in Solution Using Engineered Silver Nanosphere Dimers, Whitmore, D.D.; El-Khoury, P.Z.; Fabris, L.; Chu, P.; Bazan, G.C.; Potma, E.O.; Apkarian, V.A., *J. Phys. Chem. C*, **2011**, *115*(32), 15900-15907.
267. Design and Synthesis of Monofunctionalized, Water-Soluble Conjugated Polymers for Biosensing and Imaging Applications, Traina, C.A.; Bakus, R.C., II; Bazan, G.C., *J. Am. Chem. Soc.,* **2011**, *133*, 12600-12607.
268. A Modular Molecular Framework for Utility in Small-Molecule Solution-Processed Organic Photovoltaic Devices, Welch, G.C.; Perez, L.A.; Hoven, C.V.; Zhang, Y.; Dang, X.D.; Sharenko, A.; Toney, M.F.; Kramer, E.J.; Nguyen, T.-Q.; Bazan, G.C., *J. Mat. Chem.*, **2011**, *21*, 12700-12709.
269. Probing Nanostructures and Optoelectronic Properties of Bulk Heterojunction Solar Cells Processed with Additives by Photoconductive Atomic Force Microscopy, Nguyen, T.-Q.; Hoven, C.; Dang, X.-D.; Dante, M.; Walker, B.; Kim, C.; Bazan, G.C., *Polymer Preprints (American Chemical Society, Division of Polymer Chemistry),* **2011**, *52*, 1024-1025.
270. Design Guidelines For Conjugated Polymers With Light-Activated Anticancer Activity, Xing, C.; Liu, L.; Tang, H.; Feng, X.; Yang, Q.; Wang, S.; Bazan, G.C., *Adv. Funct. Mater.*, **2011**, *21*, 4058-4067.
271. Regioregular Pyridal[2,1,3]thiadiazole π-Conjugated Copolymers, Ying, L.; Hsu, B.B.Y.; Zhan, H.; Welch, G.C.; Zalar, P.; Perez, L.; Kramer, E.J.; Nguyen, T.-Q.; Heeger, A.J.; Wong, W.Y.; et al., *J. Mat. Chem.*, **2011**, *133*, 18538-18541.
272. Interfaces in Organic Devices Studied with Resonant Soft X-ray Reflectivity, Yan, H.; Wang, C.; Garcia, A.; Swaraj, S.; Gu, Z.; McNeill, C.R.; Schuettfort, T.; Sohn, K.E.; Kramer, E.J.; Bazan, G.C.; et al., *J. App. Phys.*, **2011**, *110*, 102220.
273. Solution-Processed Small-Molecule Solar Cells with 6.7% Efficiency, Sun, Y.; Welch, G.C.; Leong, W.L.; Takacs, C.J.; Bazan, G.C.; Heeger, A.J., *Nature Materials*, **2012**, *11*, 44-48. DOI: 10.1038/nmat3160
274. Supramolecular Electrostatic Nanoassemblies for Bacterial Forensics, Duarte, A.; Slutsky, M.; Hanrahan, G.; Mello, C.M.; Bazan, G.C., *Chem.--Eur. J.,* **2012**, *18*, 756-759. DOI: 10.1002/chem.201103237
275. Time-Resolved Structural Evolution of Additive-Processed Bulk Heterojunction Solar Cells, Rogers, J.T.; Schmidt, K.; Toney, M.F.; Bazan, G.C.; Kramer, E.J., *J. Am. Chem. Soc.,* **2012**, *134*, 2884-2887. DOI: 10.1021/ja2104747
276. Control of Efficiency, Brightness, and Recombination Zone in Light-Emitting Field Effect Transistors, Hsu, B.B.Y.; Duan, C.; Namdas, E.B.; Gutacker, A.; Yuen, J.D.; Huang, F.; Cao, Y.; Bazan, G.C.; Samuel, I.D.W.; Heeger, A.J., *Adv. Mater. (Weinheim, Ger.),* **2012**, *24*, 1171-1175. DOI: 10.1002/adma.201103513
277. Pyridalthiadiazole-Based Narrow Band Gap Chromophores, Henson, Z.B.; Welch, G.C.; van der Poll, T.; Bazan, G.C., *J. Am. Chem. Soc.,* **2012**, *134*, 3766-3779. DOI: 10.1021/ja209331y
278. Amino N-Oxide Functionalized Conjugated Polymers and their Amino-Functionalized Precursors: New Cathode Interlayers for High-Performance Optoelectronic Devices, Guan, X.; Zhang, K.; Huang, F.; Bazan, G.C.; Cao, Y., *Adv. Funct. Mater.*, **2012**, *22*, 2846-2854. DOI: 10.1002/adfm.201200199
279. Surface-Enhanced Raman Scattering of a Single Nanodumbbell: Dibenzyldithio-Linked Silver Nanospheres, Banik, M.; Nag, A.; El-Khoury, P.Z.; Rodriguez Perez, A.; Guarrotxena, N.; Bazan, G. C.; Apkarian, V.A., *J. Phys. Chem. C*, **2012**, *116*, 10415-10423. DOI: 10.1021/jp302013k
280. Influence of Processing Additives on Charge-Transfer Time Scales and Sound Velocity in Organic Bulk Heterojunction Films, Kaake, L.G.; Welch, G.C.; Moses, D.; Bazan, G.C.; Heeger, A.J., *J. Phys. Chem. Lett.*, **2012**, *3*, 1253-1257. DOI: 10.1021/jz300365b
281. Propylene Polymerization with α-Keto-β-Diimine Initiators Proceeds via Enantiomorphic Site Control, Azoulay, J.D.; Gao, H.; Koretz, Z.A.; Kehr, G.; Erker, G.; Shimizu, F.; Galland, G.B.; Bazan, G.C., *Macromolecules*, **2012**, *45*, 4487-4493. DOI: 10.1021/ma300504j
282. Role of Trace Impurities in the Photovoltaic Performance of Solution Processed Small-Molecule Bulk Heterojunction Solar Cells, Leong, W.L.; Welch, G.C.; Kaake, L.G.; Takacs, C.J.; Sun, Y.; Bazan, G.C.; Heeger, A.J., *Chemical Science*, **2012**, *3*, 2103-2109. DOI: 10.1039/C2SC20157G
283. Post-deposition Dipping Method for Improving the Electronic Properties of a Narrow Bandgap Conjugated Polymer, Park, Y.D.; Park, J.K.; Lee, W.H.; Kang, B.; Cho, K.; Bazan, G.C., *J. Mat. Chem.*, **2012**, *22*, 11462-11465. DOI: 10.1039/C2JM31183F
284. Cationic Polyfluorene-b-Neutral Polyfluorene "Rod-Rod" Diblock Copolymers, Gutacker, A.; Lin, C.-Y.; Ying, L.; Nguyen, T.-Q.; Scherf, U.; Bazan, G.C., *Macromolecules*, **2012**, *45*, 4441-4446. DOI: 10.1021/ma202738t
285. Self-Vertical Phase Separation Study of Nanoparticle/Polymer Solar Cells, Huang, Y.C; Welch, G.C.; Bazan G.C.; Chabinyc, M.L.; Su, W.F., *Chem. Commun., Cambridge, U.K.*, **2012**, *48*, 7250-7252. DOI: 10.1039/C2CC32401F
286. Non-Basic High-Performance Molecules for Solution-Processed Organic Solar Cells, van der Poll, T.S.; Love, J.A.; Nguyen, T.Q.; Bazan, G.C., *Adv. Mater. (Weinheim, Ger.),* **2012**, *24,* 3646-3649. DOI: 10.1002/adma.201201127
287. Color Tuning in Polymer Light-Emitting Diodes with Lewis Acids, Zalar, P.; Henson, Z. B.; Welch, G.C.; Bazan G.C.; Nguyen, T.-Q., *Angew. Chem. Int. Ed.*, **2012**, *51,* 7495-7498. DOI: 10.1002/anie.201202570
288. DNA Interlayers Enhance Charge Injections in Organic Field-Effect Transistors, Zhang, Y.; Zalar, P., Kim, C.; Collins, S.; Bazan G.C.; Nguyen, T.-Q., *Adv. Mater. (Weinheim, Ger.),* **2012**, *24,* 4255-4260. DOI: 10.1002/adma.201201248
289. Post-Deposition Treatment of an Arylated-Carbazole Conjugated Polymer for Solar Cell Fabrication, Liu, X; Wen, W., Bazan, G. C, *Adv. Mater.*, **2012**, *24*, 4505-4510. DOI: 10.1002/adma.201201567
290. Design Strategies for Organic Semiconductors Beyond the Molecular Formula; Henson, Z.B.; Mullen, K.; Bazan, G.C., *Nature Chemistry*, **2012**, *4,* 699-704. DOI: 10.1038/NCHEM.1422
291. Conjugated Oligoelectrolytes Increase Current Response and Organic Contaminant Removal in Wastewater Microbial Fuel Cells, Garner, L.E.; Thomas, A.W.; Sumner, J.J.; Harvey, S.P.; Bazan, G.C., *Energy & Environ. Sci.*, **2012**, *5,* 9449-9452. DOI: 10.1039/C2EE22839D
292. Insights Into π-Conjugated Small Molecule Neat Films and Blends as Determined Through Photoconductivity, Jasieniak, J.J.; Hsu, B.B.; Takacs, C.J.; Welch, G.C.; Bazan, G.C.; Moses, D.; Heeger, A.J., *ACS Nano*, **2012**, *6,* 8735-8745. DOI: 10.1021/nn303724m
293. Improvement of Interfacial Contacts for New Small-Molecule Bulk-Heterojunction Organic Photovoltaics, Garcia, A.; Welch, G.C.; Ratcliff, E.L.; Ginley, D.S.; Bazan, G.C.; Olson, D.C., *Adv. Mater. (Weinheim, Ger.),* **2012**, *24,* 5368-5373. DOI: 10.1002/adma.201200963
294. Solar Cell Efficiency, Self-Assembly and Dipole-Dipole Interactions of Isomorphic Narrow-Band-Gap Molecules, Takacs, C.J.; Sun, Y.; Welch, G.C., Perez, L.A.; Liu, X.; Wen, W.; Bazan, G.C., Heeger, A.J., *J. Am. Chem. Soc.*, **2012**, *134,* 16597-16606. DOI: 10.1021/ja3050713
295. A Highly Emissive Conjugated Polyelectrolyte Vector for Gene Delivery and Transfection, Feng, X.; Lv F.; Liu. L.; Yang, Q.; Wang, S.; Bazan, G.C., *Adv. Mater. (Weinheim, Ger.),* **2012**, *24,* 5428-5432. DOI: 10.1002/adma.201202145
296. All-Conjugated Triblock Polyelectrolytes, Ying, L.; Zalar, P.; Collins, S.D.; Chen, Z.; Mikhailovsky, A.A.; Nguyen, T.-Q.; Bazan, G.C., *Adv. Mater.,* **2012**, *24*, 6496–6501 DOI: 10.1002/adma.201202817
297. High Mobility Field Effect Transistors Based on Macroscopically Oriented Regioregular Copolymers, Tseng, H.-R.; Ying, L.; Hsu, B.B.Y.; Perez, L.A.; Takacs, C.J.; Bazan, G.C.; Heeger, A.J., *Nano Letters,* **2012**, *12,* 6353-6357. DOI: 10.1021/nl303612z
298. Photoinduced Charge Generation in a Molecular Bulk Heterojunction Material, Kaake, L.G.; Jasieniak, J.J.; Bakus, R.C.; Welch, G.C.; Moses, D.; Bazan, G.C.; Heeger, A.J., *J. Am. Chem. Soc.*, **2012**, *134*, 19828-19838. DOI: 10.1021/ja308949m
299. Narrow-Band-Gap Conjugated Chromophores with Extended Molecular Lengths, Liu, X.; Sun, Y.; Perez, L.A.; Wen, W.; Toney, M.F.; Heeger, A.J.; Bazan, G.C., *J. Am. Chem. Soc.*, **2012**, *134,* 20609-20612. DOI: 10.1021/ja310483w
300. Synergistic Effect of Processing Additives and Optical Spacers in Bulk-heterojunction Solar Cells, Kwon, S.; Park, J.K.; Kim, G.; Kong, J.; Bazan, G.C.; Lee, K., *Advanced Energy Materials,* **2012**, *2,* 1420-1424. DOI: 10.1002/aenm.201200311
301. Surface-Enhanced Raman Trajectories on a Nano-Dumbbell: Transition from Field to Charge Transfer Plasmons as the Spheres Fuse, Bani, M.; El-Khoury, P. Z.; Nag, A.; Rodriguez-Perez, A.; Guarrottxena, N.; Bazan, G. C.; Apkarian, V. S. *ACS Nano*, **2012**,*6*, 10343-10354. DOI: 10.1021/nn304277n
302. Submolecular Control, Spectroscopy and Imaging of Bond-Selective Chemistry in Single Functionalized Molecules, Jiang, Y.; Huan, Q.; Fabris, L.; Bazan, G.C.; Ho, W., *Nature Chemistry,* **2013**, *5*, 36-41. DOI: 10.1038/nchem.1488
303. Impact of Regiochemistry and Isoelectronic Bridgehead Substitution on the Molecular Shape and Bulk Organization of Narrow Bandgap Chromophores, Welch, G.C.; Bakus, R.C.; Teat, S.J.; Bazan, G.C., *J. Am. Chem. Soc.*, **2013**, *135*, 2298-2305. DOI: 10.1021/ja310694t
304. Conjugated Oligoelectrolytes Increase Power Generation in E. coli Microbial Fuel Cells, Hou, H.; Chen, X.; Thomas, A.W.; Catania, C.; Kirchhofer, N.D.; Garner, L.E.; Han, A.; Bazan, G.C., *Adv. Mater. (Weinheim, Ger.),* **2013**, *25,* 1593-1597. DOI: 10.1002/adma.201204271
305. High-Efficiency Polymer Solar Cells Enhanced by Solvent Treatment, Zhou, H.; Zhang, Y.; Seifter, J.; Collins, S.D.; Luo, C.; Bazan, G.C.; Nguyen, T.-Q.; Heeger, A.J., *Adv. Mater. (Weinheim, Ger.),* **2013**, *25,* 1646-1652. DOI: 10.1002/adma.201204306
306. Selective Fluorescence Quenching in Cationic Fluorene-Thiophene Diblock Copolymers for Ratiometric Sensing of Anions, Fonseca, S.M.; Galvao, R.P.; Burrows, H.D.; Gutacker, A.; Scherf, U.; Bazan, G.C., *Macromol. Rapid Commun.,* **2013**, *34,* 717-722. DOI: 10.1002/marc.201200734
307. Bridgehead Imine Substituted Cyclopentadithiophene Derivatives: An Effective Strategy for Band Gap Control in Donor-Acceptor Polymers, Azoulay, J.D.; Koretz, Z.A.; Wong, B.M.; Bazan, G.C., *Macromolecules,* **2013**, *46,* 1337-1342. DOI: 10.1021/ma302569u
308. Ordered Polymer Nanofibers Enhance Output Brightness in Bilayer Light-Emitting Field-Effect Transistors, Hsu, B.B.Y.; Seifter, J.; Takacs, C.J.; Zhong, C.J.; Tseng, H-R; Samuel, I.D.W.; Namdas, E.B.; Bazan, G.C.; Huang, F.; Cao, Y.; et al, *ACS Nano*, **2013**, *7*, 2344-2351. DOI: 10.1021/nn305566u
309. Optimization of Energy Levels by Molecular Design: Evaluation of Bis-diketopyrrolopyrrole Molecular Donor Materials for Bulk Heterojunction Solar Cells, Walker, B.; Liu, J.; Kim, C.; Welch, G.C.; Park, J.K.; Lin, J.; Zalar, P.; Proctor, C.M.; Seo, J.H.; Bazan, G.C.; et al, *Energy & Environmental Science*, **2013**, *6*, 952-962. DOI: 10.1039/C3EE24351F
310. Efficient Solution-Processed Small-Molecule Solar Cells with Inverted Structure, Kyaw, A.K.K.; Wang, D.H.; Gupta, V.; Zhang, J.; Chand, S.; Bazan, G.C.; Heeger, A.J., *Adv. Mater. (Weinheim, Ger.),* **2013**, *25*, 2397-2402. DOI: 10.1002/adma.201300295
311. Ab Initio Study of a Molecular Crystal for Photovoltaics: Light Absorption, Exciton and Charge Carrier Transport, Zhugayevych, A.; Postupna, O.; Bakus, R.C.; Welch, G.C.; Bazan, G.C.; Tretiak, S., *J. Phys. Chem. C*, **2013**, *117*, 4920-4930. DOI: 10.1021/jp310855p
312. Structural Dependence of the Optical Properties of Narrow Bandgap Semiconductors with Orthogonal Donor-Acceptor Geometries, Grimm, B.; Risko, C.; Azoulay, J.D.; Bredas, J.-L.; Bazan, G.C., *Chemical Science*, **2013**, *4*, 1807-1819. DOI: 10.1039/C3SC22188A
313. Synthesis and Properties of Two Cationic Narrow Band Gap Conjugated Polyelectrolytes, Henson, Z.B.; Zhang, Y.; Nguyen, T.-Q.; Seo, Jung H.; Bazan, G.C., *J. Am. Chem. Soc.*, **2013**, *135*, 4163-4166. DOI: 10.1021/ja400140d
314. Improving Charge Collection in Escherichia Coli-Carbon Electrode Devices with Conjugated Oligoelectrolytes, Wang, V.B.; Du, J.; Chen, X.; Thomas, A.W.; Kirchhofer, N.D.; Garner, L.E.; Maw, M.T.; Poh, W.H.; Hinks, J.; Wuertz, S.; et al, *Phys. Chem. Chem. Phys.*, **2013**, *15*, 5867-5872. DOI: 10.1039/c3cp50437a
315. Understanding the Role of Thermal Processing in High Performance Solution Processed Small Molecule Bulk Heterojunction Solar Cells, Leong, W.L.; Welch, G.C.; Seifter, J.; Seo, J.H.; Bazan, G.C.; Heeger, A.J., *Adv. Energy Mater.,* **2013**, *3*, 356-363. DOI: 10.1002/aenm.201200631
316. Effect of Bridging Atom Identity on the Morphological Behavior of Solution-Processed Small Molecule Bulk Heterojunction Photovoltaics, Eisenmenger, N.D.; Su, G.M.; Welch, G.C.; Takacs, C.J.; Bazan, G.C.; Kramer, E.J.; Chabinyc, M.L., *Chem. Mat.,* **2013**, *25*, 1688-1698. DOI: 10.1021/cm4001416
317. Fullerene Concentration Dependent Bimolecular Recombination in Organic Photovoltaic Films, Kaake, L.G.; Sun, Y.; Bazan, G.C.; Heeger, A.J., *Appl. Phys. Lett.,* **2013**, *102*, 133302/1-133302/3. DOI: 10.1063/1.4799348
318. Electron and Hole Mobility in Solution-Processed Small Molecule-Fullerene Blend: Dependence on the Fullerene Content, Kyaw, A.K.K.; Hwan Wang D.; Tseng, H.-R.; Zhang, J.; Bazan, G.C.; Heeger, A.J., *Appl. Phys. Lett.,* **2013**, *102*, 163308/1-163308/4. DOI: 10.1063/1.4802922
319. Solution-Based Single Molecule Imaging of Surface-Immobilized Conjugated Polymers, Dalgarno, P.A.; Traina, C.A.; Penedo, J.C.; Bazan, G.C.; Samuel, I.D.W., *J. Am. Chem. Soc.*, **2013**, *135*, 7187-7193. DOI: 10.1021/ja311874f
320. Intensity Dependence of Current-Voltage Characteristics and Recombination in High-Efficiency Solution-Processed Small-Molecule Solar Cells, Kyaw, A.K.K.; Wang, D.H.; Gupta, V.; Leong, W.L.; Ke, L.; Bazan, G.C.; Heeger, A.J., *ACS Nano*, **2013**, *7*, 4569-4577. DOI: 10.1021/nn401267s
321. A Lipid Membrane Intercalating Conjugated Oligoelectrolyte Enables Electrode Driven Succinate Production in Shewanella, Thomas, A. W.; Garner L. E.; Nevin, K.P.; Woodard, T.L.; Franks, A. E.; Lovley, D. R.; Sumner, J.J.; Sund, C. J.; Bazan, G. C., *Energy Environ. Sci.*, **2013**, *6*, 1761-1765. DOI: 10.1039/C3EE00071K
322. Pendant Group Effects on the Optical and Electrical Properties of Carbazole-Diketopyrrolopyrrole Copolymers, Kwon, O.; Jo, J.; Walker, B.; Bazan G. C.; Seo, J. H.; *J. Mater. Chem. A.*, **2013**, *1*, 7118-7124. DOI: 10.1039/C3TA11058C
323. Film Morphology of High Efficiency Solution-Process Small-Molecule Solar Cells, Love, J. A.; Proctor, C. M.; Liu, J-H.; Takacs, C. J.; Sharenko, A.; Van der Poll, T. S.; Heeger, A. J.; Bazan, G. C.; Nguyen, T-Q., *Adv. Func. Mater***, 2013,** *23*, 5019-5026. DOI: 10.1002/adfm.201300099
324. A High-Performing Solution-Processed Small Molecule:Perylene Diimide Bulk Heterojunction Solar Cell, Sharenko, A.; Proctor, C.M.; van der Poll, T.S.; Henson, Z.B.; Nguyen, T.-Q.; Bazan, G.C., *Adv. Mater.,* **2013,** *25*, 4403-4406. DOI: 10.1002/adma.201301167
325. Improved Light Harvesting and Improved Efficiency by Insertion of an Optical Spacer (ZnO) in Solution-Processed Small-Molecule Solar Cells, Kyaw, A.K.K.; Wang, D.H.; Wynands, D.; Zhang, J.; Nguyen, T.-Q.; Bazan, G.C.; Heeger, A.J., *Nano Lett*, **2013**, *13*, 3796-3801. DOI: 10.1021/nl401758g
326. Aggregation Properties of p-Phenylene Vinylene Based Conjugated Oligoelectrolytes with Surfactants, Costa, T.; Garner, L.E.; Knaapila, M.; Thomas, A.W.; Rogers, S.E.; Bazan, G.C.; Burrows, H.D., *Langmuir*, **2013**, *29*, 10047-10058. DOI: 10.1021/la401871x
327. Regioregular pyridyl[2,1,3]thiadiazole-co-indacenodithiophene Conjugated Polymers, Wen, W.; Ying, L.; Hsu, Ben B.Y.; Zhang, Y.; Nguyen, T.-Q.; Bazan, G.C., *ChemComm*, **2013**, *49*, 7192-7194. DOI: 10.1039/C3CC43229G
328. Separating Solvent and Conformational Effects on the Photophysics of a Homologous Progression of N-Terminated Phenylenevinylene Oligomers, Costa, T.; Di Paolo, R.E.; Garner, L.E.; Thomas, A.W.; Almeida, J.A.S.; Justino, L.L.G.; Macanita, A.L.; Bazan, G.C.; Burrows, H.D., *J. Phys. Chem. C.,* **2013**, *117*, 18353-18366. DOI: 10.1021/jp406048g.
329. Towards Environmentally Friendly Processing of Molecular Semiconductors, Henson, Z.B.; Zalar, P.; Chen, X.; Welch, G.C.; Nguyen, T.-Q.; Bazan, G.C., *J. Mater. Chem. A*, **2013**, *1*, 11117-11120. DOI: 10.1039/C3TA12690K
330. Solvent Additive Effects on Small Molecule Crystallization in Bulk Heterojunction Solar Cells Probed During Spin Casting, Perez, L.A.; Chou, K.W.; Love, J.A.; van der Poll, T.S.; Smilgies, D.-M.; Nguyen, T.-Q.; Kramer, E.J.; Amassian, A.; Bazan, G.C., *Adv. Mater.,* **2013**, *25*, 6380-6384. DOI: 10.1002/adma.201302389
331. Enhanced Efficiency Parameters of Solution-Processable Small-Molecule Solar Cells Depending on ITO Sheet Resistance, Wang, D.H.; Kyaw, A.K.K.; Gupta, V.; Bazan, G.C.; Heeger, A.J., *Adv. Energy Mat.,* **2013**, *3*, 1161-1165. DOI: 10.1002/aenm.201300277
332. Formation of Interfacial Traps Upon Surface Protonation in Small Molecule Solution Processed Bulk Heterojunctions Probed by Photoelectron Spectroscopy, Ratcliff, E.L.; Bakus, R.C., II; Welch, G.C.; van der Poll, T.S.; Garcia, A.; Cowan, S.R.; MacLeod, B.A.; Ginley, D.S.; Bazan, G.C.; Olson, D.C., *J. Mater. Chem. C,* **2013**, *1*, 6223-6234. DOI: 10.1039/C3TC31064G
333. Toward Green Solvent Processable Photovoltaic Materials for Polymer Solar Cells: the Role of Highly Polar Pendant Groups in Charge Carrier Transport and Photovoltaic Behavior, Duan, C.; Cai, W.; Hsu, B.B.Y.; Zhong, C.; Zhang, K.; Liu, C.; Hu, Z.; Huang, F.; Bazan, G.C.; Heeger, A.J.; et al, *Energy Environ. Sci.,* **2013**, *6*, 3022-3034. DOI: 10.1039/C3EE41838C
334. Increased Ion Conductance Across Mammalian Membranes Modified with Conjugated Oligoelectrolytes, Du, J.; Thomas, A.W.; Chen, X.; Garner, L.E.; Vandenberg, C.A.; Bazan, G.C., *Chem. Commun.,* **2013**, *49*, 9624-9626. DOI: 10.1039/C3CC45094E
335. Molecular Doping Enhances Photoconductivity in Polymer Bulk Heterojunction Solar Cells, Zhang, Y.; Zhou, H.; Seifter, J.; Ying, L.; Mikhailovsky, A.; Heeger, A.J.; Bazan, G.C.; Nguyen, T.-Q., *Adv. Mater.,* **2013**, *25*, 7038-7044. DOI: 10.1002/adma.201302159
336. Solar Cells: Film Morphology of High Efficiency Solution-Processed Small-Molecule Solar Cells, Love, J.A.; Proctor, C.M.; Liu, J.; Takacs, C.J.; Sharenko, A.; van der Poll, T.S.; Heeger, A.J.; Bazan, G.C.; Nguyen, T.-Q., *Adv. Func. Mater.,* **2013**, *23*, 5019-5026. DOI: 10.1002/adfm.201300099
337. Conductive Conjugated Polyelectrolyte as Hole-Transporting Layer for Organic Bulk Heterojunction Solar Cells, Zhou, H.; Zhang, Y.; Mai, C.-K.; Collins, S.D.; Nguyen, T.-Q.; Bazan, G.C.; Heeger, A.J., *Adv. Mater*., **2013**, *26*, 780-785. DOI: 10.1002/adma.201302845
338. Quantifying the Relationship Between the Maximum Achievable Voltage and Current Levels in Low-Bandgap Polymer Photovoltaics, Rodovsky, D.B.; Peet, J.; Shao, N.; Azoulay, J.D.; Bazan, G.C.; Drolet, N.; Wu, Q.; Sfeir, M.Y., *J. Phys. Chem. C*, **2013**, *117*, 25955-25960. DOI: 10.1021/jp410234u
339. Facile Doping of Anionic Narrow-Band-Gap Conjugated Polyelectrolytes During Dialysis, Mai, C.-K.; Zhou, H.; Zhang, Y.; Henson, Z.B.; Nguyen, T.-Q.; Heeger, A.J.; Bazan, G.C., *Angew. Chem.*, **2013**, *52*, 12874-12878. DOI: 10.1002/anie.201307667
340. Antitags: SERS-Encoded Nanoparticle Assemblies that Enable Single-Spot Multiplex Protein Detection, Guarrotxena, N.; Bazan, G.C., *Adv. Mater.,* **2013**, 1941-1946. DOI: 10.1002/adma.201304107
341. Design and Synthesis of Molecular Donors for Solution-Processed High-Efficiency Organic Solar Cells, Coughlin, J.E.; Henson, Z.B.; Welch, G.C.; Bazan, G.C., *Acc. Chem. Res.,* **2014**, *47*, 257-270. DOI: 10.1021/ar400136b
342. The Role of Fullerene Mixing Behavior in the Performance of Organic Photovoltaics: PCBM in Low-Bandgap Polymers, Chen, H.; Peet, J.; Hu, S.; Azoulay, J.; Bazan, G.; Dadmun, M., *Adv. Func. Mater.*, **2014**, *24*, 140-150. DOI: 10.1002/adfm.201300862
343. Modification of Abiotic-Biotic Interfaces with Small Molecules and Nanomaterials for Improved Bioelectronics, Du, J.; Catania, C.; Bazan, G.C., *Chem. Mater.,* **2014**, *26*, 686-697. DOI: 10.1021/cm401912j
344. Self-Assembly of Poly{1,4-phenylene-[9,9-bis(4-phenoxy-butylsulfonate)]fluorene-2,7-diyl} with Oppositely Charged Phenylenevinylene Oligoelectrolytes, Costa, T.; Marques, A.T.; Seixas de Melo, J.S.; Thomas, A.W.; Garner, L.E.; Scherf, U.; Bazan, G.C.; Burrows, H.D., *J. Phys. Chem., B,* **2014**, *118*, 613-623. DOI: 10.1021/jp409577y
345. Ultrafast Long-Range Charge Separation in Organic Semiconductor Photovoltaic Diodes, Gelinas, S.; Rao, A.; Kumar, A.; Smith, S.L.; Chin, A.W.; Clark, J.; van der Poll, T.S.; Bazan, G.C.; Friend, R.H., *Science.*, **2014**, *343*, 512-516. DOI: 10.1126/science.1246249
346. Increased Mobility Induced by Addition of a Lewis Acid to a Lewis Basic Conjugated Polymer, Zalar, P.; Kuik, M.; Henson, Z.B.; Woellner, C.; Zhang, Y.; Sharenko, A.; Bazan, G.C.; Nguyen, T.-Q., *Adv. Mater.*,**2014,** *26,* 724-727. DOI: 10.1002/adma.201303357
347. Modeling Cell Membrane Perturbation by Molecules Designed for Transmembrane Electron Transfer, Hinks, J.; Wang, Y.; Poh, W. H.; Donose, B.C.; Thomas, A.W.; Wuertz, S.; Loo, S. C. J.; Bazan, G.C.; Kjelleberg, S.; Mu, Y.; et al., *Langmuir.,* **2014,** *30,* 2429-2440. DOI: 10.1021/la403409t
348. High-Mobility Field-Effect Transistors Fabricated with Macroscopic Aligned Semiconducting Polymers, Tseng, H.-R.; Phan, H.; Luo, C.; Wang, M.; Perez, L.A.; Patel, S.N.; Ying, L.; Kramer, E. J.; Nguyen, T.-Q.; Bazan, G.C.; et al., *Adv. Mater.* **2014,** Ahead of Print. DOI: 10.1002/adma.201305084
349. Effect of Backbone Regioregularity on the Structure and Orientation of a Donor-Acceptor Semiconducting Copolymer, Perez, L.A.; Zalar, P.; Ying, L.; Schmidt, K.; Toney, M. F.; Nguyen, T.-Q.; Bazan, G.C.; Kramer, E. J., *Macromolecules.*, **2014**, *47*, 1403-1410. DOI: 10.1021/ma4019679
350. Silaindacenodithiophene-Based Molecular Donor: Morphological Features and Use in the Fabrication of Compositionally Tolerant, High-Efficiency Bulk Heterojunction Solar Cells, Love, J. A.; Nagao, I.; Huang, Y.; Kuik, M.; Gupta, V.; Takacs, C. J.; Coughlin, J. E.; Qi, L.; van der Poll, T. S.; Kramer, E. J.; et al*., J. Am. Chem. Soc.,* **2014,** *136*, 3597-3606. DOI: 10.1021/ja412473p
351. Comparison of Flavins and a Conjugated Oligoelectrolyte in Stimulating Extracellular Electron Transport from Shewanella Oneidensis MR-1, Wang, V. B.; Kirchhofer, N. D.; Chen, X.; Tan, M. Y. L.; Sivakumar, K.; Cao, B.; Zhang, Q.; Kjelleberg, S.; Bazan, G. C.; Loo, S. C. J.; et al., *Electrochem Commun*., **2014**, *41*, 55-58. DOI: 10.1016/j.elecom.2014.01.025
352. Synthesis, Characterization, and Biological Affinity of a Near-Infrared-Emitting Conjugated Oligoelectrolyte, Thomas, A.W.; Henson, Z.B.; Du, J.; Vandenberg, C.A.; Bazan, G.C., *J. Am. Chem. Soc*., **2014**, *136*, 3736-3739. DOI: 10.1021/ja412695w
353. Modeling of Internal Conversion in Photoexcited Conjugated Molecular Donors Used in Organic Photovoltaics, Oldani, N.; Tretiak, S.; Bazan, G.C.; Fernandez-Alberti, S., *Energy & Environ Sci*., **2014**, *7*, 1175-1184. DOI: 10.1039/c3ee43170c
354. Preparation and Biofunctionalization of Multicolor Conjugated Polymer Nanoparticles for Imaging and Detection of Tumor Cells, Feng, L.; Liu, L.; Lv, F.; Bazan, G.C.; Wang, S., *Adv Mater.,* **2014**, Ahead of Print. DOI: 10.1002/adma.201305206