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H-INDEX: 134; TOTAL CITATION: >66,500

(Data from Google Scholar)

PROFESSIONAL APPOINTMENTS & EDUCATION:

Department of Chemical Engineering, Stanford University

- K.K. Lee Professorship, **2016-present**

Stanford Wearable Electronics Initiative (eWEAR)

- Founder and Director, **2016-present**

Department of Chemical Engineering, Stanford University

- Professor, **2012-present**

Department of Chemistry, Stanford University

- Professor by courtesy, **2012-present**

Department of Materials Science and Engineering, Stanford University

- Professor by courtesy, **2012-present**

Department of Chemical Engineering, Stanford University

- Associate Professor, **2004-2012**

PyrAmes, Stanford, California

- Founder, Board of Directors, **2016-present**

C3 Nano Co., Hayward, California

- Founder, Board of Directors, **2010-present**

Bell Labs, Lucent Technologies, Murray Hill, NJ.

- Distinguished Member of Technical Staff, Materials Research Department, **2001-2004**.
- Member of Technical Staff, Polymer and Organic Materials Research Department, **1995-2001**.

University of Chicago, Chicago, IL.

- Ph.D., Chemistry, *1995*
- MS, Chemistry, *1993*

University of Illinois, Chicago, IL.

- Chemistry Major, *1991*.

Nanjing University, Nanjing, China.

- Chemistry Major, *1987-1990*.

OTHER PROFESSIONAL APPOINTMENTS:

National University of Singapore, Singapore

- NUSS Professorship, *2016-2018*

School of Advanced Materials, Peking University, Shenzhen, China

- Yian Yuan Professorship, *2016-present*

Nanyang Technology University of Singapore, Singapore

- Tan Chin Tuan Exchange Fellowship in Engineering, *2016*

Singapore Institute of Manufacturing Technology (SIMTech), A*Star, Singapore

- Visiting Fellow, *2014-present*

School of Chemistry and Chemical Engineering, Nanjing University, China

- Chang Jiang Scholar, *2013-2016*
- Honorary Si Yuan Chair Professorship, *2010-2013*

Soochow University, China

- Honorary Professorship, *2014*

Center for Human Interface Nano Technology, Sungkyunkwan University, Korea

- Distinguished Visiting Chair Professor, *2012-2014*

Nanjing Industry University, China

- Honorary Guest Professorship, *2012*

East China University of Science and Technology, Shanghai, China

- Honorary Professor, Department of Chemistry, *2001*.

HONORS AND AWARDS:

1. **American Chemical Society (ACS) Applied Polymer Science Award**, 2017.
2. **L'Oreal UNESCO Women in Science Award in Physical Science**, 2017.
3. **Member, National Academy of Inventors**, 2017.
4. **Member, National Academy of Engineering**, elected 2016 for synthesis, design, and

- application of organic semiconductors for flexible electronics.
5. **Nature's 10**, "Master of Materials", top ten people who mattered in 2015.
 6. **Andreas Acrivos Award for Professional Progress in Chemical Engineering**, American Institute of Chemical Engineers (AIChE), 2014.
 7. **MRS Fellow**, Materials Research Society, 2014.
 8. **POLY Fellow**, ACS Polymer Chemistry Division, 2014.
 9. **American Chemical Society (ACS) Polymer Division Carl S. Marvel Creative Polymer Chemistry Award**, 2013.
 10. **World Technology Award Finalist, Materials Category**, presented in association with TIME, Fortune, CNN, and Science, 2013.
 11. **Top 100 Materials Scientists**, Ranked by Citation Impact by Thompson Reuters, ranging from 2000-2010.
 12. **AAAS Fellow**, American Association for Advancement of Science, 2012.
 13. **Cheung Kong Scholar**, Li Ka Shing Foundation and Chinese Ministry of Education, 2012.
 14. **Arthur C. Cope Scholar Award**, ACS, for excellence in Organic Chemistry, 2011.
 15. **ACS Fellow**, for outstanding achievements in and contributions to Science, the Profession, and the Society, 2011.
 16. **PMSE Fellow**, ACS Polymeric Materials: Science and Engineering, for significant contributions to science and engineering of polymeric materials, 2011.
 17. **"2010 Most influential Chinese in the World", Science and Technology Category**. As selected by Phoenix TV, China (other recipients include Li Na for the sports category, who has recently won the Ladies 2011 French Open). April, 2011
 18. **Honorary Si Yuan Chair Professorship**, School of Chemistry and Chemical Engineering, Nanjing University, Nanjing, China, 2010-2013.
 19. **The Royal Society of Chemistry Beilby Medal and Prize** for the contributions and discoveries in the field of organic semiconductors, including the demonstration that conjugated polymers can produce high mobilities of charge carriers when self-assembled using solution deposition, 2009.
 20. **National Science Foundation (NSF) American Competitiveness and Innovation Fellow (ACIF)** for her significant contributions to advancing the technology of flexible organic electronics through understanding of organic semiconductor growth and innovative approaches for highly efficient patterning of organic single-crystal and nano/microwire transistors, 2009.
 21. **David Filo and Jerry Yang Faculty Fellow, Stanford University**, 2009.
 22. **Polymer International IUPAC Polymer Prize** for creativity and industrial application in polymer science, 2008.
 23. **SPIE Fellow**, 2008.
 24. **Top 20 most cited authors in the field of Organic Thin Film Transistors by ISI** with a total of 2226 citations from 1997 to 2007 (<http://esi-topics.com/otft/authors/b1a.html>).
 25. **Nanotech Briefs® Nano 50™ Awards** in the Innovator category, 2007.
 26. **Teaching Excellence Award**, Stanford Society of Women Engineering, 2007.
 27. **Sloan Research Fellow**, Sloan Foundation, 2006.
 28. **3M Faculty Award**, 2005.
 29. **DuPont Science and Technology Award**, 2005
 30. **Finmeccanica Faculty Scholar**, Stanford University, 2004-2007.

31. **Terman Fellow**, Stanford University, 2004-2007.
32. **Robert Noyce Faculty Scholar**, Stanford University, 2004-2005.
33. **MIT TR-100** by MIT Technology Review magazine as one of the top 100 young innovators for this century, September 2003.
34. **Best Mentor Award** honoring mentors who have gone above and beyond their duties to ensure that their intern(s) were successful during their internship of summer 2003, by the University Relations of Lucent Technologies, August 2003.
35. **Outstanding Young Woman Scientist** who is expected to make a substantial impact in chemistry during this century, Women Chemists Committee of the American Chemical Society as an 2002 (featured in Chemical & Engineering News, March 25, 2002).
36. **ACS Team Innovation Award**, American Chemical Society, for the demonstration of a flexible electronic paper, 2002.
37. **Distinguished Member of Technical Staff**, Bell Labs, 2001.
38. **R&D Magazine's Editor's Choice Award** of the "Best of the Best" new technology, 2001.
39. **R&D 100 Award** for the work on "Printed Plastic Circuits for Electronic Paper Displays", 2001.
40. **Science Magazine Top 10 Research Breakthroughs** in 2000 for work on large scale integrated circuits based on organic materials (Details can be seen in <http://www.sciencemag.org/cgi/content/full/290/5500/2221>).
41. **National Academy of Engineering as Top 100 Young Engineers**, 2000.
42. GAANN Fellowship, University of Chicago, 1995.
43. Proctor & Gamble Travel Grant, University of Chicago, 1994.
44. Ou Yangzhao Prize for Undergraduate Student, Nanjing University, China, 1989.
45. Outstanding Undergraduate Student Award, Nanjing University, China, 1989.

DISTINGUISHED LECTUERSHIPS:

1. **Brown Lectureship**, Department of Chemistry, Purdue University, 2018.
2. **Fredrickson Lectureship**, Department of Chemical Engineering and Material Science, University of Minnesota, 2018.
3. **National Science Foundation (NSF) Distinguished Lecturer**, National Science Foundation, 2017
4. **Racheff Award Lectureship**, Department of Material Science and Engineering, University of Illinois at Urbana-Champaign, 2017
5. **Director's Distinguished Lectureship**, Lawrence Livermore National Lab, 2017.
6. **Nanjing University Distinguished Lectureship**, Nanjing University, Nanjing, China, 2017.
7. **cfaed Distinguished Lectureship**, Technical University of Dresden, Center for Advancing Electronics Dresden, Dresden, Germany, 2017.
8. **The Shannon Luminary Lectureship and Award**, Nokia Bell Labs, 2016.
9. **Dean's Distinguished Lectureship**, School of Engineering, National Nanyang University, 2016
10. **The Warren K. Lewis Lecturer in Chemical Engineering**, Department of Chemical Engineering, Massachusetts Institute of Technology (MIT), 2016.
11. **Covestro Lectureship in Polymer Science and Engineering**, Department of Polymer Science and Engineering, University of Akron, 2016.

12. **The Wilma and Ephraim Shaw Roseman Award Lectureship**, Department of Chemistry, Johns Hopkins University, 2016.
13. **Sigma-Aldrich Lecturer in Materials Chemistry**, Department of Chemistry, University of North Carolina at Chapel Hill, 2015.
14. **Xue Tang Lecture**, Tsing Hua University, China, 2015.
15. **MRS Symposium-X lecturer**, MRS Fall, Boston, 2015.
16. **The Joe Smith Lectureship in Chemical Engineering and Material Science**, UC Davis, 2015.
17. **The Dale Pearson Distinguished Lectureship in Chemical Engineering**, UC Santa Barbara, 2014.
18. **Kavli Lecturer** at the Frontier in Science Symposium organized by the National Academy of Science, 2014.
19. **Molecular Forum Distinguished Lecturer**, Institute of Chemistry, Chinese Academy of Science, Beijing, China, May 2013.
20. **Xerox Distinguished Lecturer**, Xerox Research Centre of Canada (XRCC), Toronto, Canada, November, 2012.
21. **Myalr Giri Lecturer** in Physical Sciences, Penn State University at Hazleton, April, 2012.
22. **Distinguished Lecturer**, Global Climate and Energy Program, 2011.
23. **Peter B. Sherry Lecturer**, Georgia Institute of Technology, Department of Chemistry, April, 2011
24. **Weissberger/Williams/Farid Distinguished Lectuer**, Kodak Co., April 2010.
25. **Zhu Kezhen Distinguished Lecturer**, Zhejiang University, Hangzhou city, Zhejiang province, China. 2003.
26. **Elizabeth Crosby Lecturer** honoring achievement of women in Materials Science and Engineering, University of Michigan, Department of Material Sciences and Engineering, 2002.
27. **Eastman Lecturer**, University of Akron, Department of Polymer Science, 2001.
28. **Nobel Laureates in Polymer Chemistry Symposium lecturer**, American Chemical Society Polymer Chemistry Division, 2001.

PROFESSIONAL ACTIVITIES:

1. **Award committee member**, AIChE, 2015-present.
2. **International advisory board member**, CIMTEC 2018, Symposium FA "Materials Issues in Flexible and Stretchable Electronics" of the Forum on New Materials, 2017-2018.
3. **International advisory board member**, LG Display, 2010-2014.
4. **International advisory board member**, ShanghaiTech, School of Physical Science and Technology, 2014-present.
5. **Board member**, National Academies Board on Chemical Sciences and Technology, 2009-2012.
6. **Scientific Advisory Board Member**, Plastic Electronics Foundation, 2006-2009.
7. **Board member**, International Advisory Board for the International Conference on the Science and Technology of Synthetic Metals, 2010-present.

8. **Board member**, International Advisory Board for the International Symposium on Functional π -Electron Systems advisory board, 2010-present.
9. **Scientific Advisory Board Member**, NSF Science and Technology Center on Information Technology Research at University of Washington, Georgia Institute of Technology and University of Arizona, 2008-2009.
10. **Member of Board of Directors**, Materials Research Society (MRS), 2003-2005.
11. Canvassing Committee Member in charge of selection of Team Innovation Award recipients, 2003-2006.
12. **Executive Committee Member/Member-at-Large**, Division of Polymer Materials Science and Engineering, American Chemical Society, 2000-2006, 2009-2012.
13. **Program co-chair**, Division of Polymer Materials Science and Engineering, American Chemical Society, 2004-2006.
14. **Ford Travel Grant selection committee**, Division of Polymer Materials Science and Engineering, American Chemical Society, 2003.
15. **Meeting chair**, Materials Research Society in San Francisco, CA, April 2002. Kenneth Rodbell, Eugene Fitzgerald, and Ulrich Goesele, Co-chair.
16. **Conference chair**, Gordon Research Conference on Electronic Processes in Organic Materials, July 2010, co-chair with Greg Scholes.
17. **Membership Co-Chair**, Division of Polymer Materials Science and Engineering, American Chemical Society, 2000-2001.

SYMPOSIA ORGANIZED:

1. "Organic Transistors", SPIE Annual International Symposium on Optical Science and Technology, August 2014. Co-chair with Iain McCulloch.
2. "Organic Transistors", SPIE Annual International Symposium on Optical Science and Technology, August 2013. Co-chair with Iain McCulloch.
3. "Organic Transistors", SPIE Annual International Symposium on Optical Science and Technology, August 2012. Co-chair with Iain McCulloch.
4. "Materials Science and Charge Transport in Organic Semiconductors", MRS symposium Spring 2012. Co-chair with Alejandro Briseno, Jason Locklin, Wei You, Mark Roberts.
5. "Organic Transistors", SPIE Annual International Symposium on Optical Science and Technology, August 2011. Co-chair with Iain McCulloch.
6. "Organic, Flexible, and Printed Electronics", International Conference on Materials for Advanced Technologies (ICMAT), July 2011. Co-chair with Beng Ong, Jie Zhang, and Ananth Dodabalapur.
7. "Materials Science and Charge Transport in Organic Electronics", MRS symposium Spring 2010. Co-chair with Ian McCulloch, Alejandro Briseno, Vitaly Podzorov.
8. "Organic Transistors", SPIE Annual International Symposium on Optical Science and Technology, August 2010. Co-chair with Iain McCulloch.
9. Gordon Conference on Electronic Processes in Organic Materials, July 2010, co-chair with Greg Scholes.
10. Gordon Conference on Electronic Processes in Organic Materials, July 2008, co-vice chair with Greg Scholes.
11. Ninth International Conference on Functional Pi-Electron Systems at the Georgia Institute of Technology on May 23-28, 2010, Scientific Program Committee member.

12. "Organic Transistors", SPIE Annual International Symposium on Optical Science and Technology, August 2009. Co-chair with Iain McCulloch.
13. "Organic Microelectronics", San Francisco, July 2008. Co-chair with Paul Blom, Vladimir Bulovic, Duncan Stewart.
14. "Organic Transistors", SPIE Annual International Symposium on Optical Science and Technology, July 2008. Co-chair with Iain McCulloch.
15. "Conjugated Polymers: Synthesis, Structure, and Applications", MRS symposium Spring 2008. Co-chair with Jason Locklin, Wei You, and Jian Li.
16. "Organic Transistors", SPIE Annual International Symposium on Optical Science and Technology, July 2007. Co-chair with David Gundlach.
17. "Organic Electronics", Japan-American Frontier of Engineering meeting, National Academy of Engineering, Tsukuba, Japan, November 2006.
18. Topical Conference on Organic Electronics, AIChE Annual Meeting, San Francisco, November 2006. Co-chair with Rachel Segalman.
19. "Organic Transistors", SPIE Annual International Symposium on Optical Science and Technology, July 2006. Co-organize with David Gundlach.
20. "Conjugated Polymers: Synthesis, Structure, and Applications", MRS symposium Spring 2006. Co-organize with Rachel Segalman, Lynn Loo, and Anna Hwang.
21. "Organic Transistors", SPIE Annual International Symposium on Optical Science and Technology, July 2005. Co-organize with David Gundlach.
22. "Organic Thin Film Electronics: Transistors, Light Emitting Diodes, and Solar Cells", American Chemical Society ProSpectives Conference, January 2004. Co-organize with Dan Frisbie and Christos Dimitrakopoulos.
23. "Organic and Polymeric Materials for Plastic and Molecular Electronics", American Chemical Society Meeting, September 2003. Co-organize with Cherie Kagan, Bert de Boer.
24. "Organic and Molecular Electronics", American Chemical Society Meeting, April 2002. Co-organize with Cherie Kagan.
25. "Optical Materials, Fabrication, and Characterization", CLEO 2002, Member of Program Subcommittee, Filbert J. Bartoli, Chair.
26. "The Sixth International Conference on Organic Nonlinear Optics", ICONO'6, Tucson, AZ, December 2001. Member of the International Advisory Board, Seth Marder, Chair.
27. "Organic Electrical and Optical Devices and Materials Processing", Materials Research Society in Boston, MA, November 2001. Co-organized with Alex Jen, Vladimir Bulovic, George Malliaras, Susan Ermer, and Michael McGehee.
28. "Nano and Microsystems: Materials, Devices, and Technology", SPIE Annual International Symposium on Optical Science and Technology, July 2001. Member of the Program Committee, Ghassan E. Jabbour, Chair.
29. "Solid State Lighting", SPIE Annual International Symposium on Optical Science and Technology, July 2001. Member of the Program Committee, Ian Ferguson, Chair.
30. "Organic Transistors", SPIE Annual International Symposium on Optical Science and Technology, July 2001. Co-organized with Dennis Fichou.
31. "Novel Organic Materials and Technological Advances for Photonics", European Materials Research Society in Strasbourg, France, June 2001. Member of the Program Committee, Isabelle Ledoux and Joseph Zyss, Co-organizers.

32. “Polymer/Photonic Devices Symposium”, Photonics West '01: San Jose, CA, January 2001, Member of the Program Committee, B. Kippelen, Chair.
33. “Organic Electronics: from Light Emitting Diodes to Integrated Circuits”, European Materials Research Society in Strasbourg, France, June 2000. Member of Program Committee, H. von Seggern, C. Taliani, M. Schuierer, Co-organizers.
34. “Molecular Photonics: From Macroscopic to Nanoscopic Applications”, European Materials Research Society in Strasbourg, France, June 2000. Co-organized with Isabelle Ledoux and Joseph Zyss.
35. “Light-Emitting, Light-Harvesting, and Light-Responding Organic Systems”, American Chemical Society National Meeting in San Francisco, CA, April 2000, Co-organized with Bing R. Hsieh, Fotios Papadimitrakopoulos, and Aaron Wayne Harper.
36. “Electronically and Optically Active Polymers”, Materials Research Society in San Francisco, CA, April 2000. Co-organized with Mary Galvin, John Reynolds, and Lewis Rothberg.
37. “Molecular Photonics at the Interface of Physics, Chemistry and Biology”, European Materials Research Society in Strasbourg, France, June 1999. Co-organized with Isabelle Ledoux and Joseph Zyss.
38. “Electrical, Optical, and Magnetic Properties of Organic Solid State Materials (V)”, Materials Research Society in Boston, MA, November 1999. Co-organized with Alex Jen, John Reynolds, Susan Ermer, and Joe Perry.

JOURNAL EDITORSHIP:

1. Member, International Editorial Advisory Board, **Accounts of Chemical Research**, 2017-present.
2. Member, International Editorial Advisory Board, **Journal of American Chemical Society**, 2015-present.
3. Member, International Editorial Advisory Board, **Macromolecules**, 2015-2017.
4. Member, International Editorial Advisory Board, **ACS Macro Letters**, 2015-2017.
5. Member, International Editorial Advisory Board, **Advanced Electronic Materials**, 2014-present.
6. Member, Executive Advisory Board, **Advanced Science**, 2014-present.
7. Member, International Editorial Advisory Board, **Macromolecules**, 2015-present.
8. Member, International Editorial Advisory Board, **Advanced Materials**, 2013-present.
9. Member, International Editorial Advisory Board, **Materials Horizon**, 2013-present.
10. Member, International Editorial Advisory Board, **Advanced Energy Materials**, 2012-present.
11. Member, International Editorial Advisory Board, **Chemical Communications**, 2012-present.
12. Member, International Editorial Advisory Board, **Nature Asia Materials**, 2011-present.
13. Member, International Editorial Advisory Board, **Nanoscale**, 2012-present.
14. Member, International Editorial Advisory Board, **ACS Nano**, 2010-present.
15. Member, International Editorial Advisory Board, **Materials Today**, 2002-present.
16. Member, International Editorial Advisory Board, **Chemistry of Materials**, 2006-2011.
17. Member, International Editorial Advisory Board, **Advanced Functional Materials**, 2001-2005.
18. Associate Editor, **Chemical Sciences**, 2014-2016.

19. Associate Editor, **Synthetic Metals**, 2009-2011.
20. Associate Editor, **Polymer Reviews**, 2004-2008.
21. Editor, Book on “Organic Thin Film Transistors”, CRC Press, Jason Locklin, co-editor, to appear April 2007.
22. Guest Editor, Synthetic Metals, Proceedings of the EMRS 1999 Spring Meeting, Symposium on “Molecular Photonics at the Interface of Physics, Chemistry and Biology”. Co-edit with I. Ledoux.
23. Editor, MRS Symposium Proceedings Volume 598 on “Electrical, Optical, and Magnetic Properties of Organic Solid-State Materials V”. Co-edit with A. Jen, J. Perry, J. Reynolds, and S. Ermer.
24. Guest Editor, Synthetic Metals, Proceeding of the EMRS 2000 Spring Meeting, Symposium on “Molecular Photonics: From Macroscopic to Nanoscopic Applications”. Co-edit with I. Ledoux and J. Zyss.
25. Guest Editor, special issue on “Electroactive Polymers”, MRS Bulletin, July 2002 Issue. Co-Edit with A. Holmes and V. Bulovic.

EDITORIAL REVIEWER

Served as reviewer for the following journals:

Science, Nature, Nature Materials, Nature Photonics, Nature Nanotechnology, Nature Chemistry, Nature Communications, Asian Nature Materials, Nature Electronics, Nature Biotechnology, Nature Biomedical Engineering, Science Advance, Science Robotics, PNAS, Journal of the American Chemical Society, Nanoletters, Chemistry of Materials, Macromolecules, Advanced Materials, Advanced Functional Materials, Advanced Electronic Materials, Advanced Science, ACS Central Science, ACS Nano, Angewandte Chemie International Edition, Applied Physics Letters, Journal of American Chemical Society, Journal of Applied Physics, Journal of Physical Chemistry, Journal of Polymer Science: A. Polymer Chemistry, Organic Electronics, Polymer, Synthetic Metals, Small, Langmuir.

PROPOSAL/PROGRAM REVIEWER:

1. National Science Foundation (Division of Materials Research: Polymer Program, Solid State Chemistry & Electronic Materials, Division of Chemistry).
2. National Research Council of Canada.
3. Research Grants Council of Hong Kong.
4. National Research Council of Taiwan.
5. American Chemical Society (ACS) Petroleum Research Fund.
6. Panel member, Polymers review panel for the Faculty Early Career Development (CAREER) Program by National Science Foundation (NSF), October 2004.
7. Panel member, Polymers review panel for the Faculty Early Career Development (CAREER) Program by National Science Foundation (NSF), October 2002.
8. Reverse Site Panel member, Nanoscale Science and Engineering Centers (NSEC) by National Science Foundation (NSF), May 2001.
9. Panel member, site visit, Material Research Science and Engineering Centers (MRSEC) funded by National Science Foundation (NSF) in MIT, October 2000.

10. Panel member, Material Research Science and Engineering Centers (MRSEC) by National Science Foundation (NSF), 1999.
11. Panel member, Material Research Science and Engineering Centers (MRSEC) by National Science Foundation (NSF), 1997.

PROFESSIONAL AFFILIATIONS:

1. American Chemical Society
2. Materials Research Society
3. Society of Photo-optical Instrumentation Engineers
4. American Association for the Advancement of Science
5. American Institute of Chemical Engineers

PRESENTATIONS:

(A) Invited Research Lectures:

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|--|---------------|
| 1. National Tsing Tung University, Taiwan (Chemistry) | June 1994 |
| 2. Stevens Institute of Technology, NJ (Materials) | April 1998 |
| 3. Northeastern University, MA (Materials) | Nov 1998 |
| 4. Princeton University, NJ (Electrical Engineering) | Nov 1998 |
| 5. Norfolk State University, VA (Chemistry) | Nov 1998 |
| 6. Cornell University, NY (Materials) | May 1999 |
| 7. NEC Research Lab, Princeton, NJ (Materials) | May 1999 |
| 8. Ecole Normale Supérieure de Cachan, France (Physics) | June 1999 |
| 9. Georgia Institute of Technology, GA (Chemistry) | Nov 1999 |
| 10. University of Chicago, IL (Chemistry) | February 2000 |
| 11. Queen's University, Canada (Chemistry) | April 2000 |
| 12. University of California, Los Angeles, CA (Materials) | May 2000 |
| 13. National Research Council, Canada (Materials) | October 2000 |
| 14. Xerox, Canada (Materials) | October 2000 |
| 15. IBM, Yorktown Heights, NY (Materials) | Nov 2000 |
| 16. University of Arizona, Tucson, AZ (Chemistry) | February 2001 |
| 17. University of Washington, Seattle, WA (Materials) | February 2001 |
| 18. University of California, Davis, CA (Chemistry) | February 2001 |
| 19. University of California, Los Angeles, CA (chemistry) | April 2000 |
| 20. Yale University, CT (Applied Physics) | May 2001 |
| 21. Columbia University, NY (Materials) | June 2001 |
| 22. University of Tokyo, Japan (Electrical Engineering) | July 2001 |
| 23. Tokyo Institute of Technology, Japan (Materials) | July 2001 |
| 24. Yale University, CT (Chemistry) | Sept 2001 |
| 25. University of Akron, OH (Eastman Lecturer, Polymer Science) | Nov 2001 |
| 26. Rochester University, NY (Chemistry) | Nov 2001 |
| 27. Caltech, CA (Materials Science and Chemistry) | January 2002 |
| 28. MIT, MA (Chemical Engineering) | February 2002 |
| 29. Columbia University, NY (Chemistry) | April 2002 |
| 30. East China University of Science and Technology,
China (Chemical Engineering) | July 2002 |
| 31. Air Products & Chemicals, NY | August 2002 |

32. Cornell University, NY (Chemistry)	Sept 2002
33. New York University, NY (Chemistry)	Sept 2002
34. Rensselaer Polytechnic Institute, NY (Chemistry)	Sept 2002
35. Kodak, NY	Sept 2002
36. University of Michigan, MI (Elizabeth Crosby Lecturer, Materials Science)	October 2002
37. Georgia Institute of Technology, GA (Chemistry)	Nov 2002
38. Stanford University (Chemical Engineering)	Nov 2002
39. Northwestern University (Materials Science)	March 2003
40. University of California, Los Angeles, CA (Materials Science)	March 2003
41. University of Pennsylvania (Materials Science)	March 2003
42. Northwestern University (Chemistry)	April 2003
43. University of Pennsylvania (Chemistry)	June 2003
44. Samsung Advanced Research Institute	Dec 2003
45. Zhe-Jiang University (Zhu Kezhen Distinguished Lecturer, Physics/Chemistry)	Dec 2003
46. IBM Almaden Research Center	March 2004
47. Agilent Lab (Palo Alto)	July 2004
48. NIST (Polymer Division)	July 2004
49. Stanford University, Stanford, CA (Chemistry)	Nov 2004
50. University of California, Santa Barbara, CA (Chemical Engineering)	Sept 2004
51. University of Texas, Austin, TX (Chemical Engineering)	October 2004
52. University of California, Riverside, CA (Chemical Engineering)	October 2004
53. GE Corporation, Albany, NY	October 2004
54. Stanford University, Stanford, CA (Material Science)	Nov 2004
55. Intel Corporation, Santa Clara, CA	Nov 2004
56. Zhejiang University, Zhejiang, China (Polymer Science/Engineering)	Nov 2004
57. Stanford University, Stanford, CA (Applied Physics)	January 2005
58. University of Minnesota, Minneapolis, MN (Chemical Engineering)	January 2005
59. University of South Carolina, Columbia, SC (Chemistry)	May 2005
60. Annual Meeting of Stanford Center for Integrated Systems, Stanford, CA	May 2005
61. University of California, San Diego, CA (Electrical Engineering)	June 2005
62. Samsung Advanced Institute of Technology, Korea	July 2005
63. Sanyo Corporation, Japan	July 2005
64. Williams College, Williams, MA (Chemistry)	October 2005
65. Toshiba Research Center, Japan	Dec 2005
66. Rensselaer Polytechnic Institute, NY (Microelectronics Center)	March 2006
67. University of Tokyo, Japan (Applied Physics)	May 2006
68. Annual Meeting of Stanford Center for Integrated Systems, Stanford, CA	May 2006
69. Cornell University, Ithaca, NY (Material Science)	August 2006
70. Georgia Institute of Technology, Atlanta, GA (Chemical Engineering)	Sept 2006
71. PARC Research Center, Palo Alto, CA	October 2006
72. Lockheed-Martin Co., Palo Alto, CA	January 2007

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| 73. Columbia University, New York City, NY (Chemistry) | Sept 2007 |
| 74. University of Washington, Seattle, WA (Chemical Engineering) | Nov 2007 |
| 75. Simon Fraser University, Vancouver, Canada (Chemistry) | Dec 2007 |
| 76. Stanford University, Stanford, CA (Electrical Engineering) | January 2008 |
| 77. University of Minnesota, Minneapolis, MN (Chemical Engineering) | Feb 2008 |
| 78. University of California, Berkeley, CA (Chemical Engineering) | March 2008 |
| 79. Applied Materials Co., Santa Clara, CA | April 2008 |
| 80. California Institute of Technology, Pasadena, CA
(Chemical Engineering) | May 2008 |
| 81. Tsing Hua University, Beijing, China (Chemistry) | June 2008 |
| 82. Nanjing University, Nanjing, China (Chemistry) | June 2008 |
| 83. University of Wisconsin, Madison, WI (Chemical Engineering) | Sept 2008 |
| 84. University of Illinois, Urbana-Champaign, IL (Chemical Engineering) | Sept 2008 |
| 85. Harvard University, Cambridge, MA (Chemistry) | Sept 2008 |
| 86. MIT, Cambridge, MA (Chemical Engineering) | Sept 2008 |
| 87. UCLA, Los Angeles, CA (Chemical Engineering) | Nov 2008 |
| 88. Vanderbilt, Nashville, TN (Chemical Engineering) | Sept 2009 |
| 89. Oak Ridge National Lab, Knoxville, TN | Sept 2009 |
| 90. Austrian Institute of Technology, Vienna, Austria | Oct 2009 |
| 91. Kodak, Rochester, NY | April 2010 |
| 92. Samsung Institute of Technology, Seoul, Korea | June 2010 |
| 93. Nanjing University, Nanjing, China (Chemistry) | July 2010 |
| 94. Peking University, Peking, China (Chemistry) | July 2010 |
| 95. Tsinghua University, Peking, China (Chemistry) | July 2010 |
| 96. Institute of Chemistry, Chinese Academy of Sciences, Peking, China | July 2010 |
| 97. University of Oklahoma, Norman, OK (Chemical Engineering) | August 2010 |
| 98. BASF-The Chemical Company, Ludwigshafen, Germany | October 2010 |
| 99. Solvay, Brussels, Belgium | October 2010 |
| 100. Corning, Corning, NY | Nov 2010 |
| 101. LG Display, Seoul, Korea | Nov 2010 |
| 102. Georgia Inst of Tech, Atlanta, GA (Chemistry) | April 2011 |
| 103. University of Chicago, Chicago, IL (Chemistry) | April 2011 |
| 104. University of Massachusetts, Amherst, MA (Poly. Sci. Eng.) | May 2011 |
| 105. Nanjing University, Nanjing, China (Chemistry) | July 2011 |
| 106. Peking University, Peking, China (Chemistry) | August 2011 |
| 107. Drexel University, Philadelphia, PA (Chemical Engineering) | Sept 2011 |
| 108. Cornell University, Ithaca, NY (IGERT seminar) | Sept 2011 |
| 109. Sungkyunkwan University, Seoul, Korea | Nov 2011 |
| 110. Samsung Institute of Technology, Seoul, Korea | Nov 2011 |
| 111. LG Display, Seoul, Korea | Nov 2011 |
| 112. Yamagata University, Yamagata, Japan | April 2012 |
| 113. Penn State University at Hazleton, PA | April 2012 |
| 114. Sungkyunkwan University, Seoul, Korea | July 2012 |
| 115. East China University of Science and Technology, Shanghai, China | July 2012 |
| 116. Nanjing University, Nanjing, China | July 2012 |
| 117. Nanjing Industry University, Nanjing, China | August 2012 |

118. Nanjing Post and Telecommunication University	August 2012
119. University of Pittsburg, Pittsburg, PA (Chemistry)	February 2013
120. Nanjing University	May 2013
121. University of California, Berkeley, CA (Chemistry)	October 2013
122. Tongji University, Shanghai, China (Chemistry)	November 2013
123. Tufts University, Medford, MA (Chemical Engineering)	March 2014
124. MIT, Cambridge, MA (Material Science and Engineering)	April 2014
125. EPFL at Lausanne, Switzerland (Material Science)	May 2014
126. Harvard University, Cambridge, MA (Chemistry)	June 2014
127. Singapore Institute of Manufacturing Technology	October 2014
128. University of Chicago, Chicago, IL (Molecular Engineering)	April 2015
129. University of Delaware, Newark, WI (Chemical Engineering)	May 2015
130. Tsing Hua University, Beijing, China (Chemistry)	June 2015
131. North Carolina State (Chemical Engineering)	August 2015
132. Duke University, Durham, NC (Chemistry)	September 2015
133. University of North Carolina, Chapel Hill (Chemistry)	September 2015
134. Carnegie Mellon University, Pittsburg, PA (Material Science)	September 2015
135. University of Colorado, Boulder, CO (Chemical Engineering)	September 2015
136. University of Colorado, Boulder, CO (Chemistry)	September 2015
137. Harvard University, Boston, MA (Bioengineering)	April 2016
138. Hong Kong Baptist University, Hong Kong (Chemistry)	Jun 2016
139. University of Akron, Akron, OH (Polymer Engineering)	September 2016
140. Johns Hopkins University, Baltimore, MD (Chemistry)	October 2016
141. National Nanyang University of Singapore (School of Engineering)	December 2016
142. Peking University, Shenzhen, China (Materials)	December 2016
143. National Science Foundation, Arlington, VA	April 2017
144. AStar, Singapore	May 2017
145. Peking University, Shenzhen, China (Materials)	June 2017
146. Technical University of Dresden, Dresden, Germany	September 2017
147. Lawrence Livermore National Lab, Livermore, CA	August 2017
148. Linkoping University, Linkoping, Sweden	September 2017
149. Nanjing University, Nanjing, China	September 2017
150. University of Illinois, Urbana-Champaign, IL (Material Science)	November 2017
151. Northwestern University, Evanston, IL (Material Science)	November 2017
152. University of Texas, Austin, TX (Mechanical Engineering)	November 2017

(B) Invited Conference Lectures

1. ACS Biannual Meeting, Santa Barbara, CA	Nov 1996
2. NSF Materials Chemistry Workshop, Pasadena, CA	October 1997
3. European MRS, France	June 1998
4. IEEE Summer Topical meeting, Monterey, CA	July 1998
5. ACS, Dallas, TX	March 1998
6. MRS, Boston, MA	Nov 1998
7. SPIE Photonic West conference, San Jose, CA	January 1999
8. APS, 80 th Topical Symposium, Murray Hill, NJ	April 1999
9. The Fifth IUMRS International Conference on Advance	

Materials, China	June 1999
10. Gordon Research Conference on "Electronic Materials: Chemistry, Excitations, and Processing", VT	July 1999
11. ACS, New Orleans, LA	August 1999
12. "Materials in Heartland" Conference, Carbondale, IL	October 1999
13. Sensitive Skin Workshop by NSF/DAPAR, Washington, DC	October 1999
14. Flexible Electronics Workshop, Princeton, NJ	February 2000
15. 33rd Middle Atlantic Regional Meeting of ACS, Wilmington, DE	May 2000
16. European MRS, France	May 2000
17. Gordon Conference on "Organic Structures and Properties", VT	June 2000
18. Electronic Materials Conference (EMC), Denver, CO	June 2000
19. Sixth US/Germany Polymer Symposium, Evanston, IL	August 2000
20. ACS, Washington, DC	August 2000
21. PolyMillennium, Hawaii	Dec 2000
22. Pacific Chem'2000, Hawaii	Dec 2000
23. ACS, San Diego, CA	April 2001
24. AMLCD 2001, Japan	July 2001
25. ACS, Nobel Symposium, Chicago, IL	July 2001
26. International Conference on Digital Printing Technologies Ft. Lauderdale, FL	October 2001
27. ICONO'6, Tucson, AZ	Dec 2001
28. MRS, San Francisco, CA	April 2002
29. ACS, Orlando, FL (2 invited talks)	April 2002
31. Polymer Conference, Manchester, UK	April 2002
32. ACS, Boston, MA (3 invited talks)	August 2002
35. The 8 th International Conference in Search of Electroactive Polymer, New York, NY	Dec 2002
36. MRS, San Francisco, CA (3 invited talks)	April 2003
39. IEEE Solid-State Circuits Society (SSCS) workshop on "Application and Implementation of Organic Electronic Systems", Boston, MA	June 2003
40. Northeast Regional Meeting of ACS on "Nano Technology – From Current Perspectives to Future Applications", Saratoga Springs, NY	June 2003
41. SPIE, San Diego, CA	August 2003
42. 7th PAT 2003 (Polymers for Advanced Technologies) meeting, Fort Lauderdale, FL	Sept 2003
43. Conference on "New Frontiers in Electronic Applications for Organic Materials", Newark, DE	October 2003
44. AVS, Baltimore, MD	Nov 2003
45. Workshop on Advances in Molecular Electronics: From Molecular Materials To Single Molecule Devices, Dresden, Germany	February 2004
46. Fragrant Hill Symposium on Molecular and Plastic Electronics and Photonics, Beijing, China	May 2004
47. International Symposium on Organic and Inorganic Electronic	
48. Materials and Related Nanotechnologies, Niigata, Japan	June 2004

49. Gordon Conference on Electronic Processes in Organic Materials South Hadley, MA	July 2004
50. ACS, Philadelphia, PA (2 invited talks)	August 2004
52. SPIE, Denver, CO	August 2004
53. Gordon Conference on Surface Chemistry, Ventura, CA	February 2005
54. ACS, San Diego, CA (3 invited talks)	March 2005
57. Electronic Materials Symposium (ECS), Santa Clara, CA	April 2005
58. MIT Stanford Berkley Nanoforum, Stanford, CA	April 2005
59. International Symposium on Organic Optoelectronic Materials and Thin Film Devices, China	August 2005
60. Frontiers in Optics conference, Denver, CO	October 2005
61. The International Symposium on Molecular Scale Electronics, Tsukuba, Japan	Dec 2005
62. International Workshop on Semiconducting Polymers, Hsinchu, Taiwan	Feb 2006
63. ACS, Atlanta, GA	March 2006
64. 4th International Symposium on Organic Molecular Electronics, Saitama, Japan	May 2006
65. ACS, San Francisco, CA	Sept 2006
66. Golden Gate Polymer Forum, Mountain View, CA	October 2006
67. DARPA 3D Design of Organic Semiconductors Workshop	January 2007
68. ACS, Chicago, IL (3 invited talks)	March 2007
71. MRS, San Francisco, CA (2 invited talks)	April 2007
73. International Conference on Materials for Advanced Technologies, Singapore	July 2007
74. Organic Microelectronics, Seattle, WA	July 2007
75. Plastic Electronics Foundation Annual Summit, Frankfurt, Germany	October 2007
76. Opportunities for Nanostructured Polymeric Materials for Device Fabrication Workshop by ACS POLY	Nov 2007
77. APS, New Orleans, LA	March 2008
78. SPIE Defense and Security Conference	March 2008
79. Sweden Royal Society of Chemistry Trends in Organic Chemistry Workshop, Uppsala, Sweden	April 2008
80. International Workshop on Organic Inorganic Hybrid Functional Materials, Hangzhou, China	June 2008
81. 42 nd IUPAC Polymer Congress MACRO 2008, Taipei, Taiwan	July 2008
82. SPIE, San Diego, CA	August 2008
83. ACS POLY US-Japan POLYMAT, Ventura, CA	August 2008
84. ECS, Honolulu, HI	October 2008
85. IntertechPira Thin film Transistor Conference, La Jolla, CA	Nov 2008
86. MRS, Boston, MA (2 invited talks)	Nov 2008
88. ACS, Salt Lake City, UT (2 invited talks)	March 2009
90. SID, San Antonio, TX	June 2009
91. IEEE/MRS/ACS Organic Microelectronics Workshop San Francisco, CA	July 2009

92. Gordon Research Conference on Thin Film Growth New London, NH	July 2009
93. Aquitaine Conference on Polymers, France	October 2009
94. ACS, San Francisco, CA (3 invited talks)	March 2010
97. MRS, San Francisco, CA (2 invited talks)	April 2010
99. MRS, Boston, MA	Dec 2010
100. MRS, San Francisco, CA (3 invited talks)	April 2011
103. ICMAT, Singapore (2 invited talks)	July 2011
105. ACS, Denver, CO	August 2011
106. International Workshop on Printed Electronics, Muju, Korea	Nov 2011
107. MRS, Boston MA	Dec 2011
108. ACS, San Diego, CA (2 invited talks)	March 2012
110. MRS, San Francisco, CA (3 invited talks)	April 2012
113. International Symposium on Graphene and Green Technologies Tianjing, China	April 2012
114. FlexTech Alliance Wearable Electronics Workshop San Jose, CA	April 2012
115. Workshop on Biomimetic Mechanical Systems Seoul National University, Seoul, Korea	July 2012
116. ENGE 2012 International Conference on Electronic Materials and Nanotechnology for Green Environment, Jeju Island, Korea	Sep 2012
117. MRS, Boston, MA	Nov 2012
118. MRS, San Francisco, CA (2 invited talks)	April 2013
120. ACS, New Orleans, LA (3 invited talks)	April 2013
123. International SPIE DSS13 Micro-Nanotechnology Sensors, Systems, and Applications Conference, Baltimore, ML	May 2013
124. Council for Chemical Research (CCR) Annual Forum on Chemical Research, Arlington, VA	May 2013
125. International Materials Research Congress, Cancun, Mexico	August 2013
126. ACS, Indianapolis, IN	Sept 2013
127. International Conference on Flexible and Printed Electronics, Jeju Island, Korea	Sept 2013
128. International Colloquium on Flexible Electronics, Thuwal, Saudi Arabia	Nov 2013
129. ACS, Dallas, TX	March 2014
130. MRS, San Francisco, CA (6 invited talks)	April 2014
136. Gordon Research Conference on Electronic Processes in Organic Materials, Luca, Italy	May 2014
137. Gordon Research Conference on Hybrid Electronic and Photonic Materials and Phenomena	June 2014
138. ACS, San Francisco, CA (5 invited talks)	August 2014
143. Bioelectronics Symposium, Nanyang Technology University, Singapore	October 2014
144. AIChE, Atlanta, GA	Nov 2014
145. MRS, Boston, MA (2 talks)	Dec 2014
147. LOPEC Printed Electronics, Munich, Germany	March 2015
148. ACS, Denver, CO (5 talks)	March 2015

153. OrgBIO's project training school, Bari, Italy	March 2015
154. MRS, San Francisco, CA	April 2015
155. SID, Santa Clara, CA	June 2015
156. International Conference on Self-healing Materials, Durham, NC	June 2015
157. Symposium on Bioelectrochemistry and more, Vienna, Austria	June 2015
158. F-pi conference on Conjugated Functional Materials, Seattle, WA	July 2015
159. MRS, Boston, MA (2 talks)	Nov 2015
161. Pacific Chem, Honolulu, HI (3 talks)	Dec 2015
164. Symposium on Supramolecular Chemistry & Functional Materials Tokyo, Japan	Jan 2016
165. International Symposium on Functional Materials Okinawa, Japan	Jan 2016
166. ACS, San Diego, CA (4 talks)	Mar 2016
170. MRS, Phoenix, AZ (2 talks)	Apr 2016
172. Medicine for the Future Summit, Hong Kong	Aug 2016
173. Orthotic and Prosthetic Innovation and Technology conference University of California at San Francisco, CA	Oct 2016
174. MRS, Boston, MA (2 talks)	Nov 2016
176. WearableTech+Digital Health+NeuroScience, Stanford, CA	Feb 2017
177. MRS, Phoenix, AZ (2 talks)	Apr 2017
179. iFlex Symposium, Singapore	May 2017
180. Stanford CNC Annual Symposium	May 2017
181. Stanford PHIND Center Symposium	May 2017
182. Stimulus Polymer Symposium by ACS POLY, CA	Oct 2017
183. IDTechEx Printed Electronics USA, Santa Clara, CA	Nov 2017
184. MRS, Boston, MA	Nov 2017

INVITED PLENARY LECTURES AND KEYNOTE SPEECHES:

1) Canada-France Conference on Molecular Photonics and Plastics Electronics, Canada "Electroactive Polymeric and Organic Materials for Thin-Film- Transistor Applications"	October 2001
2) The Fifth International Symposium on Functional π -Electron Systems, Germany "Conjugated Oligomers and Polymers for Plastic Electronics"	May 2002
3) Symposium on Novel Materials, Piscataway, NJ "Organic Materials for Plastic and Molecular Electronics"	May 2002
4) International Conference on Synthetic Metals, Shanghai, China "Recent Progress in Plastic Electronics"	June 2002
5) Society of Vacuum Coaters Annual meeting, Denver, CO "Materials and Processing of Organic Materials for Thin Film Electronics"	April 2005
6) Opening ceremony of Taiwan Flexible Electronics Consortium, Taiwan "Organic Materials for Flexible Electronics"	June 2005
7) AM-LCD'05 Conference, Kanazawa, Japan "Organic Thin Film Transistors"	July 2005

- 8) SPIE Annual meeting, San Diego, CA August 2006
“Organic Thin Film Electronics”
- 9) 42nd IUPAC Polymer Congress MACRO 2008, Taiwan, July 2008
Award address “Polymers for Flexible Electronics”
- 10) AIChE Annual Conference, Plenary session on Nov 2009
Nano Science and Engineering Forum, Nashville, TN.
“Carbon Nanotube Networks”
- 11) Kodak Weissberger/Williams/Farid Distinguished April 2010
Seminar Series, Rochester, NY
“Recent Progress in Organic Transistors”
- 12) Functional π - Systems 9, Atlanta, GA May 2010
“Organic Semiconductors”
- 13) International Conference on Organic Electronics, Paris, France June 2010
“Organic Electronic Materials”
- 14) Yonsei University 125th Anniversary Workshop on Humantronics June 2010
Yonsei, Korea
“Organic Transistor Sensors for Flexible Electronic Skin Applications”
- 15) Plastic Electronics Foundation Annual Conference, Dresden, Germany October 2010
“Recent Progress in Organic Electronics”
- 16) UNIST Annual symposium on Next Generation Energy, Ulsan, Korea Nov 2010
“Carbon Nanomaterial-Based Transparent Electrodes”
- 17) AAAS conference symposium on Functional Organic Electronic Feb 2011
and Photonic Materials, Washington DC.
“Organic Transistor Sensors and Circuits for Flexible Electronic Skin”
- 18) Symposium on Nanomaterials Based Sensors for Biomedical March 2011
Applications, Sydney, Australia,
“Organic Transistor Sensors and Circuits for Flexible Electronic Skin”
- 19) Frontier of Polymer Sciences Symposium, Lyon, France May 2011
“Polymers for Flexible Electronic Skin Applications”
- 20) SPIE Annual meeting, San Diego, CA August 2011
“Organic Transistors for Electronic Skin”
- 21) ACS Annual Fall meeting, Denver, CO August 2011
Cope Scholar Award address, “Integrated Organic Materials
Design for Flexible Electronics”
- 22) 11th European Conference on Molecular Electronics, Barcelona, Spain Sept 2011
- 23) International Conference on Synthetic Metals, Atlanta, Georgia July 2012
- 24) Electronic Process in Organic Solids, Materials Design, Processing Nov 2012
and Applications, YangZhou, China,
- 25) ACS Annual Spring Meeting, New Orleans, LA April 2013
Polymer Chemistry Division Carl Marvel Creative Polymer Chemistry Award address
“Integrated Polymer Design for Flexible Electronics”
- 26) International Conference on Molecular Electronics and Devices, Daejeon, South Korea
“Material Design and Applications for Flexible Electronics” May 2013
- 27) International Conference on Functional π - Systems, Arcachon, France June 2013
“Skin-Inspired Electronics”
- 28) Center for Integrated Nanotechnologies Annual User Conference, Santa Fe, NM

- “Skin-Inspired Electronics” Sept 2013
- 29) Soochow Science and Technology Forum, Soochow, China Nov 2013
 “Materials and Processes for Skin-Inspired Electronics”
- 30) The Croucher Foundation Advanced Study Institute on Printed Electronics, Hong Kong
 “Skin-Inspired Electronics Based on Organic Materials” Dec 2013
- 31) Kent State University Annual Symposium on Organic Photovoltaics, Kent, OH
 “Molecular Design and Processing of Organic Semiconductors” April 2014
- 32) IUPAC MACRO Conference on Macromolecules, Chiangmai, Thailand July 2014
 “Skin-Inspired Electronics Based on Polymer Materials”
- 33) Samsung Forum, Suwon, Korea Nov 2014
 “Stretchable Electronics Based on Organic Materials”
- 34) 13th CSACS Annual Meeting, Montreal, Canada May 2015
 “Supramolecular Chemistry in Skin-Inspired Electronics”
- 35) Frontiers of Nanochemistry - 2015” (FNC-2015), Beijing, China June 2015
 “Carbon Nano Chemistry for Skin-Inspired Electronics”
- 36) 5th Molecular Materials Meeting (M3) July 2015
 “Skin-Inspired Electronics Based on Organic Materials”
- 37) Bayreuth Polymer Symposium (BPS 15), Bayreuth, Germany Sept 2015
 “Skin-Inspired Electronics Based on Polymer Materials”
- 38) European networking program on Smart Inorganic Polymers conference
 Uppsala, Sweden Sept 2015
 “Supramolecular Chemistry in Skin-Inspired Electronics”
- 39) CHInano Conference & Expo, Suzhou, China Oct 2015
 “Skin-Inspired Electronics Based on Nano Materials”
- 40) AIChE Annual Meeting Andreas Acrivos Award for Professional Progress in Chemical
 Engineering Award Address, Salt Lake City, Utah Oct 2015
- 41) Symposium on Flexible and Stretchable Electronics, Singapore Nov 2015
 “Stretchable Electronics Based on Polymer Materials”
- 42) MRS Symposium-X, Boston, Massachusetts Nov 2015
 “Skin-Inspired Electronics Based on Organic Materials”
- 43) 14th Pacific Polymer Conference, Kauai, Hawaii Nov 2015
 “Skin-Inspired Electronics Based on Polymer Materials”
- 44) Nature Conference on Flexible Electronics Jun 2016
 “Skin-Inspired Electronic Materials and Devices”
- 45) 11th Sino-US Nano Forum, Nanjing, China Jun 2016
 “Nano Materials in Skin-Inspired Electronic Materials and Devices”
- 46) International Conference on Synthetic Metals, Guangzhou, China Jun 2016
 “Skin-Inspired Electronic Materials and Devices”
- 47) 30th Chinese Chemical Society Annual Meeting Jul 2016
 “Chemistry in Skin-Inspired Electronic Materials and Devices”
- 48) SPIE annual meeting, San Diego, CA Aug 2016
 “Skin-Inspired Electronic Materials and Devices”
- 49) 9th Singapore International Chemical Conference (SICC-9), Singapore Dec 2016
 “Skin-Inspired Electronic Materials and Devices”
- 50) Naff Symposium, University of Kentucky, Lexington, Kentucky Mar 2017
 “Skin-Inspired Electronic Materials and Devices”

- 51) American Chemical Society (ACS), Applied Polymer Science Award Address Apr 2017
 “Skin-Inspired Electronic Materials and Devices”
- 52) Symposium on Recent Advances in Organic Bioelectronics Jun 2017
 “Skin-Inspired Electronic Materials and Devices”
- 53) International Conference on Advanced Materials (ICMAT), Singapore Jun 2017
 “Skin-Inspired Electronic Materials and Devices”
- 54) European Conference on Molecular Electronics, Dresden, Germany Aug 2017
 “Skin-Inspired Electronic Materials and Devices”
- 55) Knut and Alice Wallenberg Foundation Jubilee Symposium on Materials and Technology for a Digital Future, Norkoping, Sweden Sep 2017
 “Skin-Inspired Electronic Materials and Devices”
- 56) CHAINS: CHEMistry As INnovating Science (CHAINS) 2017 by Netherlands Organisation for Scientific Research (NWO), Netherlands Dec 2017
 “Skin-Inspired Electronic Materials and Devices”
- 57) Bowei Research Conference, Hsinchu, Taiwan Jan 2018
 “Skin-inspired Organic Electronic Materials and Devices”

PUBLICATIONS:

2018:

1. S. Wang, J. Xu, W. Wang, G.-J. N. Wang, R. Rastak, F. Molina-Lopez, J.W. Chung, S. Niu, V.R. Feig, J. Lopez, T. Lei, S.-K. Kwon, Y. Kim, A.M. Foudeh, A. Ehrlich, A. Gasperini, Y. Yun, B. Murmann, J.B.-H. Tok, Z. Bao, "Skin Electronics from Scalable Fabrication of Intrinsically Stretchable Transistor Array", **Nature**, in press, 2018.
2. D. Feng, T. Lei, M.R. Lukatskaya, J. Park, Z. Huang, M. Lee, L. Shaw, S. Chen, A.A. Yakovenko, A. Kulkarni, J. Xiao, K. Fredrickson, J.B. Tok, X. Zou, Y. Cui, Z Bao, "Robust and conductive two-dimensional metal–organic frameworks with exceptionally high volumetric and areal capacitance", **Nature Energy**, 2018.
3. G.-J. N. Wang, A. Gasperini, Z. Bao, "Stretchable Polymer Semiconductors for Plastic Electronics", **Adv. Electron. Mater.**, 2018.
4. Y. Lee, J.Y. Oh, T.R. Kim, X. Gu, Y. Kim, G.-J. N. Wang, H.-C. Wu, R. Pfattner, J.W.F. To, T. Katsumata, D. Son, J. Kang, J.R. Matthews, W. Niu, M. He, R. Sinclair, Y. Cui, J. B.-H. Tok, T.-W. Lee, Z. Bao, "Deformable Organic Nanowire Field-Effect Transistors", **Adv. Mater.**, 2018.

2017:

5. J. Xu, S. Wang, G.-J. N. Wang, C. Zhu, S. Luo, L. Jin, X. Gu, S. Chen, V. R. Feig, J. W. F. To, S. Rondeau-Gagné, J. Park, B. C. Schroeder, C. Lu, J. Y. Oh, Y. Wang, Y.-H. Kim, H. Yan, R. Sinclair, D. Zhou, G. Xue, B. Murmann, C. Linder, W. Cai, J. B.-H. Tok, J. W. Chung, Z. Bao, "Highly stretchable polymer semiconductor films through the nanoconfinement effect", **Science**, 355, 59-64, 2017.

6. B. Chu, W. Burnett, J.W. Chung, Z. Bao, "Bring on the bodyNET", **Nature**, 355, 328-330, 2017.
7. M. Lee, J. Hong, J. Lopez, Y. Sun, D. Feng, K. Lim, W.C. Chueh, M.F. Toney, Y. Cui, Z. Bao, "High-performance sodium–organic battery by realizing four-sodium storage in disodium rhodizonate", **Nature Energy**, 2017.
8. Y. Wang, C. Zhu, R. Pfattner, H. Yan, L. Jin, S. Chen, F. Molina-Lopez, F. Lissel, J. Liu, N. I. Rabiah, Z. Chen, J. W. Chung, C. Linder, M. F. Toney, B. Murmann, Z. Bao, "A highly stretchable, transparent, and conductive polymer", **Science Advances**, 3, 3, 2017.
9. N. Liu, A. Chortos, T. Lei, L. Jin, T. R. Kim, W.-G. Bae, C. Zhu, S. Wang, R. Pfattner, X. Chen, R. Sinclair, Z. Bao, "Ultrasensitive and stretchable graphene electrodes", **Science Advances**, 3, 2017.
10. T. Lei, M. Guan, J. Liu, H.-C. Lin, R. Pfattner, L. Shaw, A. F. McGuire, T.-C. Huang, L. Shao, K.-T. Cheng, J. B.-H. Tok, Z. Bao, "Biocompatible and totally disintegrable semiconducting polymer for ultrathin and ultralightweight transient electronics", **Proc. Natl. Acad. Sci. U.S.A.**, 114, 5107-5112, 2017.
11. J. Zhao, L. Liao, F. Shi, T. Lei, G. Chen, A. Pei, J. Sun, K. Yan, G. Zhou, J. Xie, C. Liu, Y. Li, Z. Liang, Z. Bao, Y. Cui, "Surface fluorination of reactive battery anode materials for enhanced stability", **J. Am. Chem. Soc.**, 139, 11550-11558, 2017.
12. W.-Y. Lee, H.-C. Wu, C. Lu, B. D. Naab, W.-C. Chen, Z. Bao, "n-Type Doped Conjugated Polymer for Nonvolatile Memory", **Adv. Mater.**, 29, 1605116, 2017.
13. (Guest editor) D. J. Lipomi, Z. Bao, "Stretchable and ultraflexible organic electronics", **MRS Bull.**, 42, 93-97, 2017.
14. Z. Chen, R. Pfattner, Z. Bao, "Characterization and Understanding of Thermoresponsive Polymer Composites Based on Spiky Nanostructured Fillers", **Adv. Electron. Mater.**, 3, 1600397, 2017.
15. C. Lu, W.-Y. Lee, X. Gu, J. Xu, H.-H. Chou, H. Yan, Y.-C. Chiu, M. He, J. R. Matthews, W. Niu, J. B.-H. Tok, M. F. Toney, W.-C. Chen, Z. Bao, "Effects of Molecular Structure and Packing Order on the Stretchability of Semicrystalline Conjugated Poly(Tetrathienoacene-diketopyrrolopyrrole) Polymers", **Adv. Electron. Mater.**, 3, 1600311, 2017.
16. F. Molina-Lopez, H. Yan, X. Gu, Y. Kim, M. F. Toney, Z. Bao, "Electric Field Tuning Molecular Packing and Electrical Properties of Solution-Shearing Coated Organic Semiconducting Thin Films", **Adv. Funct. Mater.**, 27, 1605503, 2017.
17. T. H. Lee, K. Kim, G. Kim, H. J. Park, D. Scullion, L. Shaw, M.-G. Kim, X. Gu, W.-G.

- Bae, E. J. G. Santos, Z. Lee, H. S. Shin, Y. Nishi, Z. Bao, "Chemical Vapor Deposited Hexagonal Boron Nitride as a Scalable Template for High-Performance Organic Field-Effect Transistors", **Chem. Mater.**, 29, 2341-2347, 2017.
18. Z. Chen, S. Chen, S. Siahrostami, P. Chakthranont, C. Hahn, D. Nordlund, S. Dimosthenis, J. K. Nørskov, Z. Bao, T. F. Jaramillo, "Development of a reactor with carbon catalysts for modular-scale, low-cost electrochemical generation of H₂O₂", **React. Chem. Eng.**, 2, 239-245, 2017.
 19. X. Gu, Y. Zhou, K. Gu, T. Kurosawa, Y. Guo, Y. Li, H. Lin, B. C. Schroeder, H. Yan, F. Molina-Lopez, C. J. Tassone, C. Wang, S. C. B. Mannsfeld, H. Yan, D. Zhao, M. F. Toney, Z. Bao, "Roll-to-Roll Printed Large-Area All-Polymer Solar Cells with 5% Efficiency Based on a Low Crystallinity Conjugated Polymer Blend", **Adv. Energy Mater.**, 7, 1602742, 2017.
 20. T. Lei, I. Pochorovski, Z. Bao, "Separation of Semiconducting Carbon Nanotubes for Flexible and Stretchable Electronics Using Polymer Removable Method", **Acc. Chem. Res.**, 50, 1096-1104, 2017.
 21. A. Chortos, I. Pochorovski, P. Lin, G. Pitner, X. Yan, T. Z. Gao, J. W. F. To, T. Lei, J. W. Will III, H.-S. P. Wong, Z. Bao, "Universal Selective Dispersion of Semiconducting Carbon Nanotubes from Commercial Sources Using a Supramolecular Polymer", **ACS Nano**, 11, 5660-5669, 2017.
 22. Y.-L. Rao, V. Feig, X. Gu, G.-J. N. Wang, Z. Bao, "The effects of counter anions on the dynamic mechanical response in polymer networks crosslinked by metal–ligand coordination", **J. Polym. Sci. A Polym. Chem.**, 55, 3110-3116, 2017.
 23. W. Liu, J. Chen, Z. Chen, K. Liu, G. Zhou, Y. Sun, M.-S. Song, Z. Bao, Y. Cui, "Stretchable Lithium-Ion Batteries Enabled by Device-Scaled Wavy Structure and Elastic-Sticky Separator", **Adv. Energy Mater.**, In press, 2017.
 24. B. C. Schroeder, T. Kurosawa, T. Fu, Y.-C. Chiu, J. Mun, G.-J. Nathan Wang, X. Gu, L. Shaw, J. W. E. Kneller, T. Kreouzis, M. F. Toney, Z. Bao, "Taming Charge Transport in Semiconducting Polymers with Branched Alkyl Side Chains", **Adv. Funct. Mater.**, 27, 1701973, 2017.
 25. A. Chortos, C. Zhu, J. Y. Oh, X. Yan, I. Pochorovski, J. W. F. To, N. Liu, U. Kraft, B. Murmann, Z. Bao, "Investigating Limiting Factors in Stretchable All-Carbon Transistors for Reliable Stretchable Electronics", **ACS Nano**, 11, 7925-7937, 2017.
 26. T. Kurosawa, X. Gu, K. L. Gu, Y. Zhou, H. Yan, C. Wang, G.-J. N. Wang, M. F. Toney, Z. Bao, "Understanding the Impact of Oligomeric Polystyrene Side Chain Arrangement on the All-Polymer Solar Cell Performance", **Adv. Energy Mater.**, 1701552, 2017.
 27. M. Minagawa, Y. Kim, M. Claus, Z. Bao, "Reducing the contact resistance in bottom-

- contact-type organic field-effect transistors using an AgO_x interface layer", **Appl. Phys. Express**, 10, 9, 2017.
28. Y. Tsao, Z. Chen, S. Rondeau-Gagné, Q. Zhang, H. Yao, S. Chen, G. Zhou, C. Zu, Y. Cui, Z. Bao, "Enhanced Cycling Stability of Sulfur Electrodes through Effective Binding of Pyridine-Functionalized Polymer", **ACS Energy Lett.**, 2, 2454-2462, 2017.
 29. F.L. Lee, A.B. Farimani, K.L. Gu, H. Yan, M.F. Toney, Z. Bao, and V.S. Pande, "Solution-Phase Conformation and Dynamics of Conjugated Isoindigo-Based Donor-Acceptor Polymer Single Chains", **J. Phys. Chem. Lett.**, 8, 22, 5479–5486, 2017.
 30. S. Chen, Z. Chen, S. Siahrostami, T.R. Kim, D. Nordlund, D. Sokaras, S.H. Nowak, J.W.F. To, D.C Higgins, R. Sinclair, J.K. Norskov, T.F. Jaramillo, Z. Bao, "Defective Carbon-based Materials for the Electrochemical Synthesis of Hydrogen Peroxide", **ACS Sus. Chem. Eng.**, Just Accepted, 2017.
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3. US9147845, "Single walled carbon nanotube-based planar photodector",

4. US9133130, "n-Type doped organic materials and methods therefor",
5. US9130171, "High-mobility structures, apparatuses and methods therefor",
6. US9112058, "Interface apparatus and methods",
7. US9087995, "Fullerene-doped nanostructures and methods therefor",
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