**Zhenan Bao, Ph.D.**

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Stanford, CA 94305

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### PROFESSIONAL Appointments & EDUCATION:

Department of Chemical Engineering, Stanford University

* Department Chair, ***2018-present***

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. **Wilhelm Exner Medal** presented by Austrian Federal Minister of Science, 2018
2. **American Chemical Society (ACS)** **Applied Polymer Science Award**, 2017.
3. **L’Oreal UNESCO Women in Science Award in Physical Science,** 2017**.**
4. **Member, National Academy of Inventors,** 2017.
5. **Member, National Academy of Engineering**, elected 2016 for synthesis, design, and application of organic semiconductors for flexible electronics.
6. **Nature’s 10**, “Master of Materials”, top ten people who mattered in 2015.
7. [**Andreas Acrivos Award for Professional Progress in Chemical Engineering**](http://www.aiche.org/community/awards/andreas-acrivos-award-professional-progress-chemical-engineering), American Institute of Chemical Engineers (AIChE), 2014.
8. **MRS Fellow,** Materials Research Society,2014**.**
9. **POLY Fellow,** ACS Polymer Chemistry Division, 2014.
10. **American Chemical Society (ACS) Polymer Division Carl S. Marvel Creative Polymer Chemistry Award,** 2013.
11. **World Technology Award Finalist, Materials Category,** presented in association with TIME, Fortune, CNN, and Science, 2013.
12. **Top 100 Materials Scientists**, Ranked by Citation Impact by Thompson Reuters, ranging from 2000-2010.
13. **AAAS Fellow,** American Association for Advancement of Science,2012**.**
14. **Cheung Kong Scholar,**Li Ka Shing Foundation and Chinese Ministry of Education, 2012.
15. **Arthur C. Cope Scholar Award,** ACS,for excellence in Organic Chemistry, 2011.
16. **ACS Fellow**, for outstanding achievements in and contributions to Science, the Profession, and the Society, 2011.
17. **PMSE Fellow,** ACSPolymeric Materials: Science and Engineering,for significant contributions to science and engineering of polymeric materials, 2011.
18. **"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
19. **Honorary Si Yuan Chair Professorship**, School of Chemistry and Chemical Engineering, Nanjing University, Nanjing, China, 2010-2013.
20. **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.
21. **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.**
22. **David Filo and Jerry Yang Faculty Fellow, Stanford University,** 2009.
23. **Polymer International IUPAC Polymer Prize** for creativity and industrial application in polymer science, 2008.
24. **SPIE Fellow**, 2008.
25. **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*).
26. **Nanotech Briefs®’ Nano 50™ Awards** in the Innovator category, 2007.
27. **Teaching Excellence Award**, Stanford Society of Women Engineering, 2007.
28. **Sloan Research Fellow**, Sloan Foundation, 2006.
29. **3M Faculty Award**, 2005.
30. **DuPont Science and Technology Award**, 2005
31. **Finmeccanica Faculty Scholar**, Stanford University, 2004-2007.
32. **Terman Fellow**, Stanford University, 2004-2007.
33. **Robert Noyce Faculty Scholar**, Stanford University, 2004-2005.
34. **MIT TR-100** by MIT Technology Review magazine as one of the top 100 young innovators for this century, September 2003.
35. **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.
36. **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).
37. **ACS Team Innovation Award,** American Chemical Society, for the demonstration of a flexible electronic paper, 2002.
38. **Distinguished Member of Technical Staff**, Bell Labs, 2001.
39. **R&D Magazine’s Editor’s Choice** **Award** of the “Best of the Best” new technology, 2001.
40. **R&D 100 Award** for the work on “Printed Plastic Circuits for Electronic Paper Displays”, 2001.
41. **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>).
42. **National Academy of Engineering as Top 100 Young Engineers**, 2000.
43. GAANN Fellowship, University of Chicago, 1995.
44. Proctor & Gamble Travel Grant, University of Chicago, 1994.
45. Ou Yangzhao Prize for Undergraduate Student, Nanjing University, China, 1989.
46. 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 Lecturer**, 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-pesent.
8. **Board member**, International Advisory Board for the International Symposium on Functional -Electron Systems advisory board, 2010-pesent.
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 Racheal 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, Vladmir 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. Schuoerer, 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:

1. National Tsiao 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

1. Air Products & Chemicals, NY August 2002
2. Cornell University, NY (Chemistry) Sept 2002
3. New York University, NY (Chemistry) Sept 2002
4. Rensselaer Polytechnic Institute, NY (Chemistry) Sept 2002
5. Kodak, NY Sept 2002
6. University of Michigan, MI (Elizabeth Crosby Lecturer,

Materials Science) October 2002

1. Georgia Institute of Technology, GA (Chemistry) Nov 2002
2. Stanford University (Chemical Engineering) Nov 2002
3. Northwestern University (Materials Science) March 2003
4. University of California, Los Angeles, CA (Materials Science) March 2003
5. University of Pennsylvania (Materials Science) March 2003
6. Northwestern University (Chemistry) April 2003
7. University of Pennsylvania (Chemistry) June 2003
8. Samsung Advanced Research Institute Dec 2003
9. Zhe-Jiang University (Zhu Kezhen Distinguished Lecturer,

Physics/Chemistry) Dec 2003

1. IBM Almaden Research Center March 2004
2. Agilent Lab (Palo Alto) July 2004
3. NIST (Polymer Division) July 2004
4. Stanford University, Stanford, CA (Chemistry) Nov 2004
5. University of California, Santa Barbara, CA (Chemical Engineering) Sept 2004
6. University of Texas, Austin, TX (Chemical Engineering) October 2004
7. University of California, Riverside, CA (Chemical Engineering) October 2004
8. GE Corporation, Albany, NY October 2004
9. Stanford University, Stanford, CA (Material Science) Nov 2004
10. Intel Corporation, Santa Clara, CA Nov 2004
11. Zhejiang University, Zhejiang, China (Polymer Science/Engineering) Nov 2004
12. Stanford University, Stanford, CA (Applied Physics) January 2005
13. University of Minnesota, Minneapolis, MN (Chemical Engineering) January 2005
14. University of South Carolina**,** Columbia, SC (Chemistry)May 2005
15. Annual Meeting of Stanford Center for

Integrated Systems, Stanford, CA May 2005

1. University of California,San Diego, CA (Electrical Engineering) June 2005
2. Samsung Advanced Institute of Technology, Korea July 2005
3. Sanyo Corporation, Japan July 2005
4. Williams College, Williams, MA (Chemistry) October 2005
5. Toshiba Research Center, Japan Dec 2005
6. Rensselaer Polytechnic Institute, NY (Microelectronics Center) March 2006
7. University of Tokyo, Japan (Applied Physics) May 2006
8. Annual Meeting of Stanford Center for Integrated Systems,

Stanford, CA May 2006

1. Cornell University, Ithaca, NY (Material Science) August 2006
2. Georgia Institute of Technology, Atlanta, GA Sept 2006

(Chemical Engineering)

1. PARC Research Center, Palo Alto, CA October 2006
2. Lockheed-Martin Co., Palo Alto, CA January 2007
3. Columbia University, New York City, NY (Chemistry) Sept 2007
4. University of Washington, Seattle, WA (Chemical Engineering) Nov 2007
5. Simon Fraser University, Vancouver, Canada (Chemistry) Dec 2007
6. Stanford University, Stanford, CA (Electrical Engineering) January 2008
7. University of Minnesota, Minneapolis, MN (Chemical Engineering) Feb 2008
8. University of California, Berkeley, CA (Chemical Engineering) March 2008
9. Applied Materials Co., Santa Clara, CA April 2008
10. California Institute of Technology, Pasadena, CA May 2008

(Chemical Engineering)

1. Tsing Hua University, Beijing, China (Chemistry) June 2008
2. Nanjing University, Nanjing, China (Chemistry) June 2008
3. University of Wisconsin, Madison, WI (Chemical Engineering)    Sept 2008
4. University of Illinois, Urbana-Champaign, IL (Chemical Engineering) Sept 2008
5. Harvard University, Cambridge, MA (Chemistry)                         Sept 2008
6. MIT, Cambridge, MA (Chemical Engineering)                                       Sept 2008
7. UCLA, Los Angeles, CA (Chemical Engineering) Nov 2008
8. Vanderbilt, Nashville, TN (Chemical Engineering) Sept 2009
9. Oak Ridge National Lab, Knoxville, TN Sept 2009
10. Austrian Institute of Technology, Vienna, Austria Oct 2009
11. Kodak, Rochester, NY April 2010
12. Samsung Institute of Technology, Seoul, Korea June 2010
13. Nanjing University, Nanjing, China (Chemistry) July 2010
14. Peking University, Peking, China (Chemistry) July 2010
15. Tsinghua University, Peking, China (Chemistry) July 2010
16. Institute of Chemistry, Chinese Academy of Sciences, Peking, China July 2010
17. University of Oklahoma, Norman, OK (Chemical Engineering) August 2010
18. BASF-The Chemical Company, Ludwigshafen, Germany October 2010
19. Solvay, Brussels, Belgium October 2010
20. Corning, Corning, NY Nov 2010
21. LG Display, Seoul, Korea Nov 2010
22. Georgia Inst of Tech, Atlanta, GA (Chemistry) April 2011
23. University of Chicago, Chicago, IL (Chemistry) April 2011
24. University of Massachusetts, Amherst, MA (Poly. Sci. Eng.) May 2011
25. Nanjing University, Nanjing, China (Chemistry) July 2011
26. Peking University, Peking, China (Chemistry) August 2011
27. Drexel University, Philadelphia, PA (Chemical Engineering) Sept 2011
28. Cornell University, Ithaca, NY (IGERT seminar) Sept 2011
29. Sungkyunkwan University, Seoul, Korea Nov 2011
30. Samsung Institute of Technology, Seoul, Korea Nov 2011
31. LG Display, Seoul, Korea Nov 2011
32. Yamagata University, Yamagata, Japan April 2012
33. Penn State University at Hazleton, PA April 2012
34. Sungkyunkwan University, Seoul, Korea July 2012
35. East China University of Science and Technology, Shanghai, China July 2012
36. Nanjing University, Nanjing, China July 2012
37. Nanjing Industry University, Nanjing, China August 2012
38. Nanjing Post and Telecommunication University August 2012
39. University of Pittsburg, Pittsburg, PA (Chemistry) February 2013
40. Nanjing University May 2013
41. University of California, Berkeley, CA (Chemistry) October 2013
42. Tongji University, Shanghai, China (Chemistry) November 2013
43. Tufts University, Medford, MA (Chemical Engineering) March 2014
44. MIT, Cambridge, MA (Material Science and Engineering) April 2014
45. EPFL at Lausanne, Switzerland (Material Science) May 2014
46. Harvard University, Cambridge, MA (Chemistry) June 2014
47. Singapore Institute of Manufacturing Technology October 2014
48. University of Chicago, Chicago, IL (Molecular Engineering) April 2015
49. University of Delaware, Newark, WI (Chemical Engineering) May 2015
50. Tsing Hua University, Beijing, China (Chemistry) June 2015
51. North Carolina State (Chemical Engineering) August 2015
52. Duke University, Durham, NC (Chemistry) September 2015
53. University of North Carolina, Chapel Hill (Chemistry) September 2015
54. Carnegie Mellon University, Pittsburg, PA (Material Science) September 2015
55. University of Colorado, Boulder, CO (Chemical Engineering) September 2015
56. University of Colorado, Boulder, CO (Chemistry) September 2015
57. Harvard University, Boston, MA (Bioengineering) April 2016
58. Hong Kong Baptist University, Hong Kong (Chemistry) Jun 2016
59. University of Akron, Akron, OH (Polymer Engineering) September 2016
60. Johns Hopkins University, Baltimore, MD (Chemistry) October 2016
61. National Nanyang University of Singapore (School of Engineering) December 2016
62. Peking University, Shenzhen, China (Materials) December 2016
63. National Science Foundation, Arlington, VA April 2017
64. AStar, Singapore May 2017
65. Peking University, Shenzhen, China (Materials) June 2017
66. Technical University of Dresden, Dresden, Germany September 2017
67. Lawrence Livermore National Lab, Livermore, CA August 2017
68. Linkoping University, Linkoping, Sweden September 2017
69. Nanjing University, Nanjing, China September 2017
70. University of Illinois, Urbana-Champaign, IL (Material Science) November 2017
71. Northwestern University, Evanston, IL (Material Science) November 2017
72. University of Texas, Austin, TX (Mechanical Engineering) November 2017
73. Cornell University, Ithaca, NY (Chemical Engineering) April 2018
74. Corning Corporation, NY April 2018
75. Solvay Corporation, Bollate, Italy June 2018

#### (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, 80th Topical Symposium, Murray Hill, NJ April 1999
9. The Fifth IUMRS International Conference on Advance

Materials, China June 1999

1. Gordon Research Conference on “Electronic Materials:

Chemistry, Excitations, and Processing”, VT July 1999

1. ACS, New Orleans, LA August1999
2. “Materials in Heartland” Conference, Carbondale, IL October 1999
3. Sensitive Skin Workshop by NSF/DAPAR, Washington, DC October 1999
4. Flexible Electronics Workshop, Princeton, NJ February 2000
5. 33rd Middle Atlantic Regional Meeting of ACS, Wilmington, DE May 2000
6. European MRS, France May 2000
7. Gordon Conference on “Organic Structures and Properties”, VT June 2000
8. Electronic Materials Conference (EMC), Denver, CO June 2000
9. Sixth US/Germany Polymer Symposium, Evanston, IL August 2000
10. ACS, Washington, DC August 2000
11. PolyMillennium, Hawaii Dec 2000
12. Pacific Chem’2000, Hawaii Dec 2000
13. ACS, San Diego, CA April 2001
14. AMLCD 2001, Japan July 2001
15. ACS, Nobel Symposium, Chicago, IL July 2001
16. International Conference on Digital Printing Technologies

Ft. Lauderdale, FL October 2001

1. ICONO'6, Tucson, AZ Dec 2001
2. MRS, San Francisco, CA April 2002
3. ACS, Orlando, FL (2 invited talks) April 2002
4. Polymer Conference, Manchester, UK April 2002
5. ACS, Boston, MA (3 invited talks) August 2002
6. The 8th International Conference in Search of Electroactive

Polymer, New York, NY Dec 2002

1. MRS, San Francisco, CA (3 invited talks) April 2003
2. IEEE Solid-State Circuits Society (SSCS) workshop on

"Application and Implementation of Organic Electronic Systems",

Boston, MA June 2003

1. Northeast Regional Meeting of ACS on "Nano Technology –

From Current Perspectives to Future Applications", Saratoga

Springs, NY June 2003

1. SPIE, San Diego, CA August 2003
2. 7th PAT 2003 (Polymers for Advanced Technologies) meeting,

Fort Lauderdale, FL Sept 2003

1. Conference on "New Frontiers in Electronic Applications

for Organic Materials", Newark, DE October 2003

1. AVS, Baltimore, MD Nov 2003
2. Workshop on Advances in Molecular Electronics: From Molecular

Materials To Single Molecule Devices, Dresden, Germany February 2004

1. Fragrant Hill Symposium on Molecular and Plastic Electronics

and Photonics, Beijing, China May 2004

1. International Symposium on Organic and Inorganic Electronic
2. Materials and Related Nanotechnologies, Niigata, Japan June 2004
3. Gordon Conference on Electronic Processes in Organic Materials

South Hadley, MA July 2004

1. ACS, Philadelphia, PA (2 invited talks) August 2004
2. SPIE, Denver, CO August 2004
3. Gordon Conference on Surface Chemistry, Ventura, CA February 2005
4. ACS, San Diego, CA (3 invited talks) March 2005
5. Electronic Materials Symposium (ECS), Santa Clara, CA April 2005
6. MIT Stanford Berkley Nanoforum, Stanford, CA April 2005
7. International Symposium on Organic Optoelectronic

Materials and Thin Film Devices,ChinaAugust 2005

1. Frontiers in Optics conference, Denver, CO October 2005
2. The International Symposium on Molecular Scale Electronics,

Tsukuba, Japan Dec 2005

1. International Workshop on Semiconducting Polymers,

Hsinchu, Taiwan Feb 2006

1. ACS, Atlanta, GA March 2006
2. 4th International Symposium on Organic Molecular Electronics, May 2006

Saitama, Japan

1. ACS, San Francisco, CA Sept 2006
2. Golden Gate Polymer Forum, Mountain View, CA October 2006
3. DARPA 3D Design of Organic Semiconductors Workshop January 2007
4. ACS, Chicago, IL (3 invited talks) March 2007
5. MRS, San Francisco, CA (2 invited talks) April 2007
6. International Conference on Materials for

Advanced Technologies, Singapore July 2007

1. Organic Microelectronics, Seattle, WA July 2007
2. Plastic Electronics Foundation Annual Summit,

Frankfurt, Germany October 2007

1. Opportunities for Nanostructured Polymeric Materials for

Device Fabrication Workshop by ACS POLY Nov 2007

1. APS, New Orleans, LA March 2008
2. SPIE Defense and Security Conference March 2008
3. Sweden Royal Society of Chemistry Trends in Organic April 2008

Chemistry Workshop, Uppsala, Sweden

1. International Workshop on Organic Inorganic Hybrid June 2008

Functional Materials, Hangzhou, China

1. 42nd IUPAC Polymer Congress MACRO 2008, Taipei, Taiwan July 2008
2. SPIE, San Diego, CA August 2008
3. ACS POLY US-Japan POLYMAT, Ventura, CA August 2008
4. ECS, Honolulu, HI October 2008
5. IntertechPira Thin film Transistor Conference, La Jolla, CA Nov 2008
6. MRS, Boston, MA (2 invited talks) Nov 2008
7. ACS, Salt Lake City, UT (2 invited talks) March 2009
8. SID, San Antonio, TX June 2009
9. IEEE/MRS/ACS Organic Microelectronics Workshop

San Francisco, CA July 2009

1. Gordon Research Conference on Thin Film Growth

New London, NH July 2009

1. Aquitaine Conference on Polymers, France October 2009
2. ACS, San Francisco, CA (3 invited talks) March 2010
3. MRS, San Francisco, CA (2 invited talks) April 2010
4. MRS, Boston, MA Dec 2010
5. MRS, San Francisco, CA (3 invited talks) April 2011
6. ICMAT, Singapore (2 invited talks) July 2011
7. ACS, Denver, CO August 2011
8. International Workshop on Printed Electronics, Muju, Korea Nov 2011
9. MRS, Boston MA Dec 2011
10. ACS, San Diego, CA (2 invited talks) March 2012
11. MRS, San Francisco, CA (3 invited talks) April 2012
12. International Symposium on Graphene and Green Technologies

Tianjing, China April 2012

1. FlexTech Alliance Wearable Electronics Workshop April 2012

San Jose, CA

1. Workshop on Biomimetic Mechanical Systems

Seoul National University, Seoul, Korea July 2012

1. ENGE 2012 International Conference on Electronic Materials and

Nanotechnology for Green Environment, Jeju Island, Korea Sep 2012

1. MRS, Boston, MA Nov 2012
2. MRS, San Francisco, CA (2 invited talks) April 2013
3. ACS, New Orleans, LA (3 invited talks) April 2013
4. International SPIE DSS13 Micro-Nanotechnology Sensors, Systems, and Applications Conference, Baltimore, ML May 2013
5. Council for Chemical Research (CCR) Annual Forum on Chemical Research, Arlington, VA May 2013
6. International Materials Research Congress, Cancun, Mexico August 2013
7. ACS, Indianapolis, IN Sept 2013
8. [International Conference on Flexible and Printed](http://www.icfpe.org/) Electronics, Jeju Island, Korea

Sept 2013

1. 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 Oct 2016

University of California at San Francisco, CA

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

185. ACS, New Orleans, LA (3 talks) Mar 2018

#### INVITED PLENARY LECTURES AND KEYNOTE SPEECHES:

1. Canada-France Conference on Molecular Photonics and October 2001

Plastics Electronics, Canada

“Electroactive Polymeric and Organic Materials for Thin-Film-

Transistor Applications”

1. The Fifth International Symposium on Functional May 2002

-Electron Systems, Germany

“Conjugated Oligomers and Polymers for Plastic Electronics”

1. Symposium on Novel Materials, Piscatway, NJ May 2002

“Organic Materials for Plastic and Molecular Electronics”

1. International Conference on Synthetic Metals, Shanghai, China June 2002

“Recent Progress in Plastic Electronics”

1. Society of Vacuum Coaters Annual meeting, Denver, CO April 2005

“Materials and Processing of Organic Materials for

Thin Film Electronics”

6) Opening ceremony of Taiwan Flexible Electronics Consortium, Taiwan June 2005

“Organic Materials for Flexible Electronics”

7) AM-LCD’05 Conference, Kanazawa, Japan July 2005

“Organic Thin Film Transistors”

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”

1. AICHE Annual Conference, Plenary session on Nov 2009

Nano Science and Engineering Forum, Nashville, TN.

“Carbon Nanotube Networks”

1. Kodak Weissberger/Williams/Farid Distinguished April 2010

Seminar Series, Rochester, NY

“Recent Progress in Organic Transistors”

1. Functional  Systems 9, Atlanta, GA May 2010

“Organic Semiconductors”

1. International Conference on Organic Electronics, Paris, France June 2010

“Organic Electronic Materials”

1. Yonsei University 125th Anniversary Workshop on Humantronics June 2010

Yonsei, Korea

“Organic Transistor Sensors for Flexible Electronic Skin Applications”

1. Plastic Electronics Foundation Annual Conference, Dresden, Germany October 2010

“Recent Progress in Organic Electronics”

1. UNIST Annual ymposium 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

and Applications, YangZhou, China, Nov 2012

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  Systems, Arcachon, France

“Skin-Inspired Electronics” June 2013

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](http://www.aiche.org/community/awards/andreas-acrivos-award-professional-progress-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, Hong Kong 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”

58) ACS POLY/PMSE Plenary Talk, New Orleans, LA Apr 2018

“Skin-Inspired Polymer Materials”

59) IUPAC MACRO, Cairns, Australia Jul 2018

“Skin-Inspired Polymer Materials”

60) KAIST International Workshop Aug 2018

“Skin-Inspired Electronics”

### 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**, 555, 83-88, 2018.
2. Y. Kim, A. Chortos, W. Xu, Y. Liu, J. Y. Oh, D. Son, J. Kang, A. M. Foudeh, C. Zhu, Y. Lee, S. Niu, J. Liu, R. Pfattner, Z. Bao, T.-W. Lee, "[A bioinspired flexible organic artificial afferent nerve](http://dx.doi.org/10.1126/science.aao0098)", **Science**, 360, 998-1003, 2018.
3. 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](https://dx.doi.org/10.1038/s41560-017-0044-5)", **Nature Energy**, 3, 30-36, 2018.
4. (Invited) X. Gu, L. Shaw, K. Gu, M. F. Toney Z. Bao, "[The meniscus-guided deposition of semiconducting polymers](https://dx.doi.org/10.1038/s41467-018-02833-9)", **Nature Comm.**, 9, 534, 2018.
5. C. Zhu, A. Chortos, Y. Wang, R. Pfattner, T. Lei, A. C. Hinckley, I. Pochorovski, X. Yan, J. W.-F. To, J. Y. Oh, J. B.-H. Tok, Z. Bao, B. Murmann, "[Stretchable temperature-sensing circuits with strain suppression based on carbon nanotube transistors](https://dx.doi.org/10.1038/s41928-018-0041-0)", **Nature Elec.**, 1, 183-190, 2018.
6. V. R. Feig, H. Tran, M. Lee, Z. Bao , "[Mechanically tunable conductive interpenetrating network hydrogels that mimic the elastic moduli of biological tissues](https://dx.doi.org/10.1038/s41467-018-05222-4)", **Nature Comm.**, 9, 2740, 2018.
7. C. M. Boutry, Y. Kaizawa, B. C. Schroeder, A. Chortos, A. Legrand, Z. Wang, J. Chang, P. Fox, Z. Bao, "[A stretchable and biodegradable strain and pressure sensor for orthopaedic application](https://dx.doi.org/10.1038/s41928-018-0071-7)", **Nature Elec.**, 1, 314-321, 2018.
8. L. Jin, A. Chortos, F. Lian, E. Pop, C. Linder, Z. Bao, W. Cai, "[Microstructural origin of resistance–strain hysteresis in carbon nanotube thin film conductors](https://doi.org/10.1073/pnas.1717217115)", **Proc. Natl. Acad. Sci. U.S.A.**, 115, 9, 1986-1991 2018.
9. V. R. Feig, H. Tran, Z. Bao, "[Biodegradable Polymeric Materials in Degradable Electronic Devices](https://dx.doi.org/10.1021/acscentsci.7b00595)", **ACS Cent. Sci.**, 4, 3,337–348, 2018.
10. J. Kang, D. Son, G.-J. N. Wang, Y. Liu, J. Lopez, Y. Kim, J. Y. Oh, T. Katsumata, J. Mun, Y. Lee, L. Jin, J. B.-H. Tok, Z. Bao, "[Tough and Water-Insensitive Self-Healing Elastomer for Robust Electronic Skin](https://dx.doi.org/10.1002/adma.201706846)", **Adv. Mater.**, 30, 1706846, 2018.
11. X. Yan , Z. Liu, Q. Zhang, J. Lopez, H. Wang, H.-C. Wu, S. Niu, H. Yan, S. Wang, T. Lei, J. Li, D. Qi, P. Huang, J. Huang, Y. Zhang, Y. Wang, G. Li, J. B.-H. Tok, X. Chen, Z. Bao, "[Quadruple H-Bonding Cross-Linked Supramolecular Polymeric Materials as Substrates for Stretchable, Antitearing, and Self-Healable Thin Film Electrodes](https://doi.org/10.1021/jacs.8b01682)", **J. Amer. Chem. Soc.**, 140, 15, 5280-5289, 2018.
12. S. Chen, Z. Chen, S. Siahrostami, D. Higgins, D. Nordlund, D. Sokaras, T. R. Kim, Y. Liu, X. Yan, E. Nilsson, R. Sinclair, J. K. Nørskov, T. F. Jaramillo, Z. Bao, "[Designing Boron Nitride Islands in Carbon Materials for Efficient Electrochemical Synthesis of Hydrogen Peroxide](https://doi.org/10.1021/jacs.8b02798)", **J. Amer. Chem. Soc.**, 140,25, 7851-7859, 2018.
13. J. Park, M. Lee, D. Feng, Z. Huang, A. C. Hinckley, A. Yakovenko, X. Zou, Y. Cui, Z. Bao,  "[Stabilization of Hexaaminobenzene in a 2D Conductive Metal–Organic Framework for High Power Sodium Storage](https://doi.org/10.1021/jacs.8b06020)", **J. Am. Chem. Soc.**, Articles ASAP, 2018.
14. S. Chen, D. M. Koshy, Y. Tsao, R. Pfattner, X. Yan, D. Feng, Z. Bao, "[Highly Tunable and Facile Synthesis of Uniform Carbon Flower Particles](https://doi.org/10.1021/jacs.8b05825)", **J. Am. Chem. Soc.**, Articles ASAP, 2018.
15. M. R. Lukatskaya, J. Feldblyum, D. G. Mackanic, F. Lissel, D. L. Michels, Y. Cui, Z. Bao, "[Concentrated Mixed Cation Acetate “Water-in-Salt” Solutions as Green and Low Cost High Voltage Electrolytes for Aqueous Batteries](https://doi.org/10.1039/C8EE00833G)", **Energy Environ. Sci.**, Accepted Manuscript, 2018.
16. S. Wang, J.Y. Oh, J. Xu, H. Tran, Z. Bao, "[Skin-Inspired Electronics: An Emerging Paradigm](https://doi.org/10.1021/acs.accounts.8b00015)", **Acc. Chem. Res.**, 51, 5, 1033-1045, 2018.
17. G.-J. N. Wang, A. Gasperini, Z. Bao, "[Stretchable Polymer Semiconductors for Plastic Electronics](https://doi.org/10.1002/aelm.201700429)", **Adv. Electron. Mater.**, 4, 2, 1700429, 2018.
18. T. Munaoka, X. Yan, J. Lopez, J. W. F. To, J. Park, J. B.-H. Tok, Y. Cui, Z. Bao, "[Ionically Conductive Self-Healing Binder for Low Cost Si Microparticles Anodes in Li-Ion Batteries](https://doi.org/10.1002/aenm.201703138)", **Adv. Energy Mater.**,  8, 1703138, 2018.
19. F. Molina‐Lopez, H.‐C. Wu, G.‐J. N. Wang, H. Yan, L. Shaw, J. Xu, M. F. Toney, Z. Bao,  "[Enhancing Molecular Alignment and Charge Transport of Solution‐Sheared Semiconducting Polymer Films by the Electrical‐Blade Effect](https://doi.org/10.1002/aelm.201800110)", **Adv. Electron. Mater.**, 4, 1800110, 2018.
20. 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](http://onlinelibrary.wiley.com/doi/10.1002/adma.201704401/abstract)", **Adv. Mater.**, 30, 1704401, 2018.
21. K.L. Gu , Y. Zhou, W.A. Morrison, K. Park, S. Park, Z. Bao, "[Nanoscale Domain Imaging of All-Polymer Organic Solar Cells by Photo-Induced Force Microscopy](http://doi.org/10.1021/acsnano.7b07865)", **ACS Nano**, 12, 2, 1473-1481, 2018.
22. G.-J. N. Wang , F. Molina-Lopez, H. Zhang, J. Xu, H.-C. Wu , J. Lopez, L. Shaw , J. Mun, Q. Zhang, S. Wang, A. Ehrlich, Z. Bao, "[Nonhalogenated Solvent Processable and Printable High-Performance Polymer Semiconductor Enabled by Isomeric Nonconjugated Flexible Linkers](https://doi.org/10.1021/acs.macromol.8b00971)", **Macromolecules**, ACS Editors Choice, 51, 13, 4976–4985, 2018.
23. Q. Zhang, S. Niu, L. Wang, J. Lopez, S. Chen, Y. Cai, R. Du, Y. Liu, J.‐C. Lai, L. Liu, C.‐H. Li, X. Yan, C. Liu, J. B.‐H. Tok, X. Jia, Z. Bao, "[An Elastic Autonomous Self‐Healing Capacitive Sensor Based on a Dynamic Dual Crosslinked Chemical System](https://doi.org/10.1002/adma.201801435)", **Adv. Mater.**, 1801435, 2018.
24. H.‐C. Wu, S. Rondeau‐Gagné, Y.‐C. Chiu, F. Lissel, J. W. F. To, Y. Tsao, J. Y. Oh, B. Tang, W.‐C. Chen, J. B.‐H. Tok, Z. Bao, "[Enhanced Charge Transport and Stability Conferred by Iron(III)‐Coordination in a Conjugated Polymer Thin‐Film Transistors](https://doi.org/10.1002/aelm.201800239)", **Adv. Electron. Mater.**, 1800239, 2018.
25. (Special Issue, Guest Editor) Q. Zhang, D. F. Perepichka, Z. Bao, "[Celebrating 50 years of Professor Fred Wudl’s contributions to the field of organic semiconductors](http://dx.doi.org/10.1039/C8TC90055H)", **J. Mater. Chem. C**, 6, 3483-3484, 2018.
26. L. Shaw , H. Yan, X. Gu, P. Hayoz, R. T. Weitz, D. Kaelblein, M. F. Toney, and Z. Bao,  "[Microstructural Evolution of the Thin Films of a Donor–Acceptor Semiconducting Polymer Deposited by Meniscus-Guided Coating](https://doi.org/10.1021/acs.macromol.8b00350)", **Macromolecules**, 51, 11, 4325-4340, 2018.
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