Jihua Chen

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Publications

Education

University of Michigan–Ann Arbor, MI	Macromolecular Sci. and Engr.	Ph.D., 2006
Clemson University, SC	Textiles, Fiber, and Polymer Sci.	M.S., 2002
Beijing Univ. of Aeronautics & Astronautics, China	Polymers and Composites	B.S., 1997

Research Area and Expertise

1. Ion and electron active polymers for energy storage
2. Structure-function correlations of soft and hybrid naomaterials
3. Biomimetic materials

Professional Experience

2011–p	Staff Scientist, Center for Nanophase Materials Sciences (CNMS), Oak Ridge National Laboratory (ORNL)
2009–2010	Postdoctoral Associate, CNMS, ORNL
2007–2009	Postdoctoral Associate, Chemical Engineering and Materials Science, University of Minnesota at Twin Cities (Advisors: Profs. F.S. Bates and C.D. Frisbie)
2002-2006	Graduate Research Assistant, University of Michigan-Ann Arbor (Advisor: Prof. D.C. Martin)

Professional and Synergistic Activities

2008–p	Manuscript Reviewer: *Energy and Environmental Science; Chemical Society Review; Nanoscale; Crystal Growth & Design; IEEE Electron Device Letter; Chemical Communications; Journal of Materials Chemistry; RSC Advances; Crystal Engineering Communications; Physical Chemistry Chemical Physics; Polymer Chemistry*; *Dalton Transactions; Soft Matter; Synthetic Metals; Materials Research Society Proceedings; Applied Physics Letters; Journal of Applied Polymer Science; Journal of Electronic Materials; Materials Horizons; Microscopy and Microanalysis*
2012-p	Impact of Materials on Society Subcommittee, Materials Research Society (MRS)
2012	Session Chair, "Low-Voltage Electron Microscopy and Spectroscopy" (MRS fall)
2012–p	Proposal Reviewer: DOE Basic Energy Sciences; ACS Petroleum Fund
2015	Symposium Organizer, Microscopy and Microanalysis Annual Meeting, Portland, OR, August 2-6

Publications

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100. A. Marrocchi, P. Adriaensens, E. Bartollini, B. Barkakati, R. Carleer, J. Chen, D. K. Hensley, C. Petrucci, M. Tassi, L. Vaccaro, "Novel Cross-Linked Polystyrenes with Large Space Network as Tailor-Made Catalyst Supports for Sustainable Media", *European Polymer Journal*, In Press (2015)
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96. D. Khatiwada, S. Venkatesan, Q. Chen, J. Chen, N. Adhikari, A. Dubey, A.F. Mitul, L. Mohammed, Q. Qiao, "Improved Performance by Morphology Control via Fullerenes in PBDT-TBT-AlkoBT Based Organic Solar Cells", *Journal of Material Chemistry A*, **3**, 15307 (2015)
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94. S. Bi, Z. He, J. Chen, D. Li, "Solution-Grown Small Molecule Organic Semiconductor with Enhanced Crystal Alignment and Areal Coverage for Organic Thin Film Transistors", *AIP Advances*, 5, 077170 (2015)
93. N.T. Shewmon, D.L. Watkins, J.F. Galindo, R.B. Zerdan, J. Chen, J. Keum, A. E. Roitberg, J. Xue, R.K. Castellano, "Enhancement in Organic Photovoltaic Efficiency through the Synergistic Interplay of Molecular Donor Hydrogen Bonding and pi-Stacking", *Advanced Functional Materials*, **25**, 5166 (2015)
92. S. Das, J.K. Keum, J.F. Browning, G. Gu, B. Yang, O. Dyck, C. Do, W. Chen, J. Chen, I.N. Ivanov, K. Hong, A.J. Rondinone, P.C. Joshi, D.B. Geohegan, G. Duscher, K. Xiao, "Correlating High Power Conversion Efficiency of PTB7:PC71BM Inverted Organic Solar Cells with Nanoscale Structures", *Nanoscale*, Advance Article, DOI: 10.1039/C5NR03332B (2015)
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Role of Domain Crystallinity, Domain Purity and Domain Interface Sharpness for Reduced Bimolecular Recombination in Polymer Solar Cells," Accepted by *Nano Energy* (2015)

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