

Huipeng Chen



EDUCATION

Ph. D.	Tufts University, Medford, MA, USA, Physics	2009
B. S.	University of Science and Technology of China, Physics	2004

PROFESSIONAL EXPERIENCE

Professor	Fuzhou University	2015.1-present
Research Fellow	Oak Ridge National Lab and University of Tennessee	2011-2014
Postdoctoral Fellow	Texas Tech University	2009- 2011

RESEARCH EXPERIENCE

Flexible and stretchable electronics, Thin Film Transistor, Memory, Phototransistors, Artificial Synapse, Organic Photovoltaics, Printed Electronics, Neutron and X-ray Scattering

RECENT PUBLICATIONS

1. Chen, Q.Z.;Lai, D.X.;He, L.H.;Yujie, Y.;Li, E.L.;Liu, Y.Q.;Zeng, H.A.;**Chen, H.P.***;Guo, T.L. “High-Performance Vertical Organic Phototransistors Enhanced by Ferroelectrics” *ACS Applied Materials & Interfaces*, 2021, 13, 1035.
2. Zhang, J.;Geng, B.W.;Duan, S.M.;Huang, C.C.;Xi, Y.;Mu, Q.;**Chen, H.P.**;Ren, X.C. *;Hu, W.P. “High-resolution organic field-effect transistors manufactured by electrohydrodynamic inkjet printing of doped electrodes” *Journal of Materials Chemistry C*, 2020, 8, 15219.
3. Yu, R.J.;Li, E.L.;Wu, X.M.;Yan, Y.J.;He, W.X.;He, L.H.;Chen, J.W.;**Chen, H.P.***;Guo, T.L. “Electret-Based Organic Synaptic Transistor for Neuromorphic Computing” *ACS Applied Materials & Interfaces*, 2020, 12, 15446.
4. Yang, Q.;Lv, D.X.;Huang, J.S.;Chen, J.W.;**Chen, H.P.***;Guo, T.L. “Modulation of the plasticity of an all-metal oxide synaptic transistor via laser irradiation” *Nanotechnology*, 2020, 31,215202.
5. Yang, H.H.;Yan, Y.J.;Wu, X.M.;Liu, Y.Q.;Chen, Q.Z.;Zhang, G.C.;Chen, S.M.;**Chen, H.P.***;Guo, T.L. “A multilevel vertical photonic memory transistor based on organic semiconductor/inorganic perovskite quantum dot blends” *Journal of Materials Chemistry C*, 2020, 8, 2861.
6. Yan, Y.J.;Wu, X.M.;Chen, Q.Z.;Wang, X.M.;Li, E.L.;Liu, Y.;**Chen, H.P.***;Guo, T.L. “An intrinsically healing artificial neuromorphic device” *Journal of Materials Chemistry C*, 2020, 8, 6869.
7. Yan, Y.J.;Chen, Q.Z.;Wu, X.M.;Wang, X.M.;Li, E.L.;Ke, Y.D.;Liu, Y.;**Chen, H.P.***;Guo, T.L. “High-Performance Organic Electrochemical Transistors with Nanoscale Channel Length and Their Application to Artificial Synapse” *ACS Applied Materials & Interfaces*, 2020, 12, 49915.
8. Wang, X.M.;Zhang, G.C.;Yang, H.H.;Liu, Y.Q.;Chen, S.M.;Lin, Z.X.;**Chen, H.P.***;Guo, T.L. “Quantitative characterization of interface stress using a nanoindentation technique for high performance flexible electronics” *Journal of Materials Chemistry C*, 2020, 8, 12155.
9. Wang, X.M.;Yan, Y.J.;Li, E.L.;Liu, Y.Q.;Lai, D.X.;Lin, Z.X.;Liu, Y.;**Chen, H.P.***;Guo, T.L. “Stretchable synaptic transistors with tunable synaptic behavior” *Nano Energy*, 2020, 75, 104952.
10. Lv, D.X.;Yang, Q.;Chen, Q.Z.;Chen, J.W.;Lai, D.X.;**Chen, H.P.***;Guo, T.L. “All-metal oxide synaptic transistor with modulatable plasticity” *Nanotechnology*, 2020, 31, 065201.
11. Liu, Y.Q.;Yang, W.Y.;Yan, Y.J.;Wu, X.M.;Wang, X.M.;Zhou, Y.L.;Hu, Y.Y.;**Chen, H.P.***;Guo, T.L. “Self-powered high-sensitivity sensory memory actuated by triboelectric sensory receptor for real-time neuromorphic computing” *Nano Energy*, 2020, 75, 104930.

12. Liu, Y.Q.; Wang, X.M.; Yan, Y.J.; Rao, Z.C.; **Chen, H.P.***; Guo, T.L. "A novel post-processed surface modified double-network polymer layer for a triboelectric nanogenerator" *J Mater Chem A*, 2020, 8, 6328.
13. Liu, Y.Q.; Li, E.L.; Wang, X.M.; Chen, Q.Z.; Zhou, Y.L.; Hu, Y.Y.; Chen, G.X.; **Chen, H.P.***; Guo, T.L. "Self-powered artificial auditory pathway for intelligent neuromorphic computing and sound detection" *Nano Energy*, 2020, 78, 105403.
14. Lin, W.K.; Chen, G.X. *; Li, E.L.; Xie, H.X.; Peng, G.; Yu, W.J.; **Chen, H.P.**; Guo, T.L. "Improved stability and performance of all inorganic perovskite quantum dots synthesized directly with N-alkylmonoamine ligands for light-erasable transistor memory" *Organic Electronics*, 2020, 86, 105869.
15. Lin, W.K.; Chen, G.X. *; Li, E.L.; He, L.H.; Yu, W.J.; Peng, G.; **Chen, H.P.**; Guo, T.L. "Nonvolatile Multilevel Photomemory Based on Lead-Free Double Perovskite Cs₂AgBiBr₆ Nanocrystals Wrapped Within SiO₂ as a Charge Trapping Layer" *ACS Applied Materials & Interfaces*, 2020, 12, 43967.
16. Lan, S.Q.; Zhong, J.F.; Li, E.L.; Yan, Y.J.; Wu, X.M.; Chen, Q.Z.; Lin, W.K.; **Chen, H.P.***; Guo, T.L. "High-performance Nonvolatile Organic Photoelectronic Transistor Memory Based on Bulk Heterojunction Structure" *ACS Applied Materials & Interfaces*, 2020, 12, 31716.
17. Kim, Y.G.; Lv, D.X.; Huang, J.S.; Bukke, R.N.; **Chen, H.P. ***; Jang, J. * "Artificial Indium-Tin-Oxide Synaptic Transistor by Inkjet Printing Using Solution-Processed ZrO(x)Gate Dielectric" *Phys Status Solidi A*, 2020, 217.
18. Chen, Q.Z.; Yan, Y.J.; Wu, X.M.; Wang, X.M.; Zhang, G.C.; Chen, J.W.; **Chen, H.P. ***; Guo, T.L. "Gate-tunable all-inorganic QLED with enhanced charge injection balance" *Journal of Materials Chemistry C*, 2020, 8, 1280.
19. Zhang, G.C.; Zhong, J.F.; Chen, Q.Z.; Yan, Y.J.; Chen, H.P. *; Guo, T.L. "High-Performance Organic Phototransistors With Vertical Structure Design" *IEEE Transactions On Electron Devices*, 2019, 66, 1815.
20. Yeliu, K.H.; Zhong, J.F.; Wang, X.M.; Yan, Y.J.; Chen, Q.Z.; Ye, Y. *; **Chen, H.P. ***; Guo, T.L. "High performance n-type vertical organic phototransistors" *Organic Electronics*, 2019, 67, 200.
21. Yang, H.H.; Liu, Y.Q.; Wu, X.M.; Yan, Y.J.; Wang, X.M.; Lan, S.Q.; Zhang, G.C.; **Chen, H.P.***; Guo, T.L. "High-Performance All-Inorganic Perovskite-Quantum-Dot-Based Flexible Organic Phototransistor Memory with Architecture Design" *Advanced Electronic Materials*, 2019, 5, 1900864.
22. Yan, Y.J.; Wu, X.M.; Chen, Q.Z.; Liu, Y.Q.; **Chen, H.P. ***; Guo, T.L. "High-Performance Low-Voltage Flexible Photodetector Arrays Based on All-Solid-State Organic Electrochemical Transistors for Photosensing and Imaging" *ACS Applied Materials & Interfaces*, 2019, 11, 20214.
23. Xue, L.; Liu, Y.; Li, F.S. *; Sun, K.; Chen, W.; Yang, K.Y.; Hu, H.L.; Lin, J.T.; **Chen, H.P.**; Yang, Z.X.; Guo, T.L. "Highly flexible light emitting diodes based on a quantum dots-polymer composite emitting layer" *Vacuum*, 2019, 163, 282.
24. Wu, X.M.; Lan, S.Q.; Zhang, G.C.; **Chen, H.P. ***; Guo, T.L. "The effect of light environment during the film formation process on the morphology and function of organic photovoltaics" *Journal of Materials Chemistry C*, 2019, 7, 10581.
25. Wu, X.M.; Lan, S.Q.; Hu, D.B.; Chen, Q.Z.; Li, E.L.; Yan, Y.J.; **Chen, H.P. ***; Guo, T.L. "High performance flexible multilevel optical memory based on a vertical organic field effect transistor with ultrashort channel length" *Journal of Materials Chemistry C*, 2019, 7, 9229.
26. Wu, X.M.; Lan, S.Q.; Hu, D.B.; Chen, Q.Z.; Li, E.L.; Yan, Y.J.; **Chen, H.P. ***; Guo, T.L. "High performance flexible multilevel optical memory based on a vertical organic field effect transistor with ultrashort channel length" *Journal of Materials Chemistry C*, 2019, 7, 9229.

27. Wang, X.M.; Yang, H.H.; Cao, S.G.; Zhong, J.F.; Fang, Y.; Liu, Y.Q.; Lin, Z.X.; **Chen, H.P.** *; Guo, T.L. “A universal strategy to improve the mechanical stability of flexible organic thin film transistors.” *Journal of Materials Chemistry C*, 2019, 7, 6323.
28. Liu, Y.Q.; Zhong, J.F.; Li, E.L.; Yang, H.H.; Wang, X.M.; Lai, D.X.; **Chen, H.P.** *; Guo, T.L. “Self-powered artificial synapses actuated by triboelectric nanogenerator” *Nano Energy*, 2019, 60, 377.
29. Li, E.L.; Wu, X.M.; Lan, S.Q.; Yang, Q.; Fang, Y.; **Chen, H.P.** *; Guo, T.L. “Flexible ultra-short channel organic ferroelectric non-volatile memory transistors” *Journal of Materials Chemistry C*, 2019, 7, 998.
30. Li, E.L.; Lin, W.K.; Yan, Y.J.; Yang, H.H.; Wang, X.M.; Chen, Q.Z.; Lv, D.X.; Chen, G.X.; **Chen, H.P.** *; Guo, T.L. “Synaptic Transistor Capable of Accelerated Learning Induced by Temperature-Facilitated Modulation of Synaptic Plasticity” *ACS Applied Materials & Interfaces*, 2019, 11, 46008.
31. Lan, S.Q.; Yan, Y.J.; Yang, H.H.; Zhang, G.C.; Ye, Y.; Li, F.S.; **Chen, H.P.** *; Guo, T.L. “Improving device performance of n-type organic field-effect transistors via doping with a p-type organic semiconductor” *Journal of Materials Chemistry C*, 2019, 7, 4543.
32. Lai, D.X.; Li, E.L.; Yan, Y.J.; Liu, Y.Q.; Zhong, J.F.; Lv, D.X.; Ke, Y.D.; **Chen, H.P.** *; Guo, T.L. “Gelatin-hydrogel based organic synaptic transistor” *Organic Electronics*, 2019, 75, 105409.
33. Ji, J.J.; Wu, X.M.; Deng, P.; Zhou, D.G.; Lai, D.X.; Zhan, H.B.; **Chen, H.P.** * “Impact of new skeletal isomerization in polymer semiconductors” *Journal of Materials Chemistry C*, 2019, 7, 10860.
34. He, W.X.; Fang, Y.; Yang, H.H.; Wu, X.M.; He, L.H.; **Chen, H.P.** *; Guo, T.L. “A multi-input light-stimulated synaptic transistor for complex neuromorphic computing” *Journal of Materials Chemistry C*, 2019, 7, 12523.
35. He, J.W.; Li, G.L. *; Lv, Y.W.; Wang, C.L.; Liu, C.S.; Li, J.C.; Flandre, D.; **Chen, H.P.**; Guo, T.L.; Liao, L. * “Defect Self-Compensation for High-Mobility Bilayer InGaZnO/In₂O₃ Thin-Film Transistor” *Advanced Electronic Materials*, 2019, 5, 1900125.
36. Chen, Q.Z.; Yan, Y.J.; Wu, X.M.; Lan, S.O.; Hu, D.B.; Fang, Y.; Lv, D.X.; Zhong, J.F.; **Chen, H.P.** *; Guo, T.L. “High-Performance Quantum-Dot Light-Emitting Transistors Based on Vertical Organic Thin-Film Transistors” *ACS Applied Materials & Interfaces*, 2019, 11, 35888.
37. Chen, J.W.; Li, E.L.; Van, Y.J.; Yang, Q.; Cao, S.G.; Zhong, J.F.; **Chen, H.P.** *; Guo, T.L. “Flexible metal oxide synaptic transistors using biomass-based hydrogel as gate dielectric” *Journal of Physics D-Applied Physics*, 2019, 52, 484002.
38. Chen, G. *; Lin, W.K.; **Chen, H.P.**; Guo, T.L. “Ultra-high stability of cesium lead halide nanocrystals synthesized by a simple one-pot method” *Materials & Design*, 2019, 181, 108100.
39. Chen, C.H.; Yang, Q.; Chen, G.X. *; **Chen, H.P.** *; Guo, T.L. * “Solution-Processed Oxide Complementary Inverter via Laser Annealing and Inkjet Printing” *IEEE Transactions on Electron Devices*, 2019, 66, 4888.
40. Chen, C.H. *; Yang, H.H.; Yang, Q.; Chen, G.X.; **Chen, H.P.**; Guo, T.L. “Low-temperature solution-processed flexible metal oxide thin-film transistors via laser annealing” *Journal of Physics D-Applied Physics*, 2019, 52, 385105.
41. Zhong, J.F.; Wu, X.M.; Lan, S.Q.; Fang, Y.; **Chen, H.P.** *; Guo, T.L. “High Performance Flexible Organic Phototransistors with Ultrashort Channel Length” *ACS Photonics*, 2018, 5, 3712.
42. Zhang, G.C.; Zhang, P.J.; Hu, D.B.; **Chen, H.P.** *; Guo, T.L. “A Postalignment Method for High-Mobility Organic Thin-Film Transistors” *IEEE Transactions on Electron Devices*, 2018, 65, 1101.
43. Zhang, G.C.; Zhang, P.J.; **Chen, H.P.** *; Guo, T.L. “Modification of polymer gate dielectrics for organic thin-film transistor from inkjet printing” *Applied Physics A-Materials Science & Processing*, 2018, 124, 481.

44. Wan, D.;Liu, X.Q.;Abliz, A.;Liu, C.S.;Yang, Y.B.*;Wu, W.;Li, G.L.;Li, J.C.;**Chen, H.P.**;Guo, T.L.;Liao, L. "Design of Highly Stable Tungsten-Doped IZO Thin-Film Transistors With Enhanced Performance" *IEEE Transactions On Electron Devices*, 2018, 65, 1018.
45. Sun, D.W.;Chen, C.H.;Zhang, J.;Wu, X.M.;**Chen, H.P.***;Guo, T.L. "High performance inkjet-printed metal oxide thin film transistors via addition of insulating polymer with proper molecular weight" *Applied Physics Letters*, 2018, 112, 012102.
46. Ma, Y.L.;**Chen, H.P.***;Tang, Y.B.;Wang, J.Y.;Ma, W.*;Zheng, Q.D.*"Modulation of bulk heterojunction morphology through small pi-bridge changes for polymer solar cells with enhanced performance" *Journal of Materials Chemistry C*, 2018, 6, 5999.
47. Liang, Y.M.;Lan, S.Q.;Deng, P.*;Zhou, D.G.;Guo, Z.Y.*;**Chen, H.P.***;Zhan, H.B. "Regioregular and Regioirregular Poly(selenophene-perylene diimide) Acceptors for Polymer-Polymer Solar Cells" *ACS Applied Materials & Interfaces*, 2018, 10, 32397.
48. Han, G.Q.;Wang, X.M.;Zhang, J.;Zhang, G.C.;Yang, H.H.;Hu, D.B.;Sun, D.W.;Wu, X.M.;Ye, Y.;**Chen, H.P.***;Guo, T.L."Interface engineering with double-network dielectric structure for flexible organic thin film transistors" *Organic Electronics*, 2018, 52, 213.
49. Han, G.Q.;Cao, S.G.;Yang, Q.;Yang, W.Y.;Guo, T.L.;**Chen, H.P.***"High-Performance All-Solution-Processed Flexible Photodetector Arrays Based on Ultrashort Channel Amorphous Oxide Semiconductor Transistors" *ACS Applied Materials & Interfaces*, 2018, 10, 40631.
50. Fang, Y.;Wu, X.M.;Lan, S.Q.;Zhong, J.F.;Sun, D.W.;**Chen, H.P.***;Guo, T.L. "Inkjet-Printed Vertical Organic Field-Effect Transistor Arrays and Their Image Sensors" *ACS Applied Materials & Interfaces*, 2018, 10, 30587.
51. Abliz, A.;Wan, D.;Chen, J.Y.;Xu, L.;He, J.W.;Yang, Y.B.*;Duan, H.M.;Liu, C.S.;Jiang, C.Z.;**Chen, H.P.**;Guo, T.L.;Liao, L. "Enhanced Reliability of In-Ga-ZnO Thin-Film Transistors Through Design of Dual Passivation Layers" *IEEE Transactions On Electron Devices*, 2018, 65, 2844.
52. Yang, H.H.;Chen, C.H.;Zhang, G.C.;Lan, S.Q.;**Chen, H.P.***;Guo, T.L. "Solution-Processed Organic Thin-Film Transistor Arrays with the Assistance of Laser Ablation" *ACS Applied Materials & Interfaces*, 2017, 9, 3849.
53. Wu, X.M.;Lan, S.Q.;Zhang, G.C.;Chen, Q.Z.;**Chen, H.P.***;Guo, T.L. "Morphology of a Ternary Blend Solar Cell Based on Small Molecule: Conjugated Polymer: Fullerene Fabricated by Blade Coating" *Advanced Functional Materials*, 2017, 27, 1703268.
54. Wan, D.;Abliz, A.;Su, M.;Liu, C.S.;Jiang, C.Z.;Li, G.L.;**Chen, H.P.**;Guo, T.L.;Liu, X.Q.;Liao, L.* "Low-Frequency Noise in High-Mobility a-InGaZnO/InSnO Nanowire Composite Thin-Film Transistors" *IEEE Electron Device Letters*, 2017, 38, 1540.
55. Lan, S.Q.;Yang, H.H.;Zhang, G.C.;Wu, X.M.;Chen, Q.Z.;Chen, L.;**Chen, H.P.***;Guo, T.L. "Importance of Solvent Removal Rate on the Morphology and Device Performance of Organic Photovoltaics with Solvent Annealing" *ACS Applied Materials & Interfaces*, 2017, 9, 20679.
56. Hu, D.B.;Zhang, G.C.;Yang, H.H.;Zhang, J.;Chen, C.H.;Lan, S.Q.;**Chen, H.P.***;Guo, T.L. "High-Performance Nonvolatile Organic Transistor Memory Using Quantum Dots-Based Floating Gate" *IEEE Transactions on Electron Devices*, 2017, 64, 3816.
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58. Han, G.Q.;Zhang, J.;Zhang, G.C.;Yang, H.H.;Lan, S.Q.;Wang, X.M.;**Chen, H.P.***;Guo, T.L. "Surface Infused Interpenetrating Network as Gate Dielectric for High Performance Thin Film Transistors" *Macromolecular Materials and Engineering*, 2017, 302, 1600562.
59. Chen, C.H.;Chen, G.X.;Yang, H.H.;Zhang, G.C.;Hu, D.B.;**Chen, H.P.***;Guo, T.L."Solution-processed metal oxide arrays using femtosecond laser ablation and annealing for thin-film transistors" *Journal of Materials Chemistry C*, 2017, 5, 9273.
60. Abliz, A.;Gao, Q.G.;Wan, D.;Liu, X.Q.;Xu, L.;Liu, C.S.*;Jiang, C.Z.;Li, X.F.;**Chen, H.P.**;Guo, T.L.;Li, J.C.;Liao, L. *"Effects of Nitrogen and Hydrogen Codoping on the Electrical Performance

- and Reliability of InGaZnO Thin -Film Transistors” *ACS Applied Materials & Interfaces*, 2017, 9, 10798.
61. Zhang, G.C.; Yang, H.H.; He, L.L.; Hu, L.Q.; Lan, S.Q.; Li, F.S.; **Chen, H.P.***; Guo, T.L. “Importance of Domain Purity in Semi-Conducting Polymer/Insulating Polymer Blends Transistors” *Journal of Polymer Science Part B-Polymer Physics*, 2016, 54, 1760.
 62. Yang, H.H.; Zhang, G.C.; Zhu, J.; He, W.X.; Lan, S.Q.; Liao, L.; **Chen, H.P.***; Guo, T.L. * “Improving Charge Mobility of Polymer Transistors by Judicious Choice of the Molecular Weight of Insulating Polymer Additive” *Journal of Physical Chemistry C*, 2016, 120, 17282.
 63. Lan, S.Q.; Yang, H.H.; Zhang, G.C.; Wu, X.M.; Ning, W.; Wang, S.M.; **Chen, H.P.***; Guo, T.L. “Impact of Fullerene Structure on Nanoscale Morphology and Miscibility and Correlation of Performance on Small Molecules: Fullerene Solar Cell” *Journal of Physical Chemistry C*, 2016, 120, 21317.
 64. Abliz, A.; Wang, J.L.; Xu, L.; Wan, D.; Liao, L.*; Ye, C.; Liu, C.S.*; Jiang, C.Z.; **Chen, H.P.**; Guo, T.L. “Boost up the electrical performance of InGaZnO thin film transistors by inserting an ultrathin InGaZnO:H layer” *Applied Physics Letters*, 2016, 108, 213501.
 65. **Chen, H.P.**; Hsiao, Y.Z.; Chen, J.H.; Hu, B.; Dadmun, M.* “Distinguishing the Importance of Fullerene Phase Separation from Polymer Ordering in the Performance of Low Band Gap Polymer:Bis-Fullerene Heterojunctions”, *Advanced Functional Materials*, 2014, 24, 7284.
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 72. **Chen, HP**; Hu, S; Zang, HD; Hu, B and Dadmun, MD. “Precise Structural Development and its Correlation to Function in Conjugated Polymer:Fullerene Thin Films by controlled solvent annealing” *Advanced Functional Materials*, 2013, 23, 1701.
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 74. **Chen, HP**; Yu, ZN and Hedden RC. “Influence of Thermal History on Mesoscale Ordering in a Polymedomian Smectic Network” *Journal of Polymer science: Part B, Polymer Physics*, 2013, 51, 225.
 75. **Chen, HP**; Lentz, DM and Hedden, RC “Solution Templating of Au and Ag Nanoparticles by Linear Poly(2-(diethylamino)ethyl methacrylate)” *Journal of Nanoparticle Research*, 2012, 14, 690.

76. **Chen, HP**; Lentz, DM; Rhoades, AM; Pyles, RA; Haider, KW; Vanapalli, SA; Nunley, RK and Hedden, RC. "Surface Infusion Micropatterning of Elastomeric Substrates", *Microfluidics and Nanofluidics*, 2012, 12, 451.
77. Lentz, DM; **Chen, HP**; Yu, ZN; Patil, HP; Crane, CA and Hedden, RC. "Influence of Strain Rate and Temperature on Necking transition in a Polydomain Smectic Main Chain Elastomer" *Journal of Polymer science: Part B, Polymer Physics*, 2011, 49, 591. (Cover)
78. **Chen, HP**; Pyda M and Cebe, P. "Non-Crystallization of PET-PLA Blends Blends" *Thermochimica Acta*, 2009, 492, 61.
79. **Chen, HP** and Cebe, P. "Vitrification and Devitrification of Rigid Amorphous Fraction of PET during Quasi-isothermal Cooling and Heating" *Macromolecules*, 2009,42,288.
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81. **Chen, HP** and Cebe, P. "Quenching of Polymer Inside Aluminum DSC Pans: Origin of an Apparent Artifact" *Thermochimica Acta*, 2008, 476, 63.
82. **Chen, HP**; Hu, X and Cebe, P. "Thermal Properties and Phase Transitions in Blends of Nylon-6 with Silk Fibroin" *Journal of Thermal Analysis and Calorimetry*, 2008, 93, 201.
83. **Chen, HP**; Xu, H and Cebe, P. "Thermal and Structural Properties of Blends of Isotactic with Atactic Polystyrene" *Polymer*, 2007, 48, 6404.
84. **Chen, H** and Cebe, P. "Investigation of the Rigid Amorphous Fraction in Nylon-6" *Journal of Thermal Analysis and Calorimetry*, 2007, 89, 417.

PROJECTS

- "Investigation of Field Effect Organic Photovoltaics based on Vertical Transistors" *Natural Science Foundation for Distinguished Young Scholars of Fujian Province* **¥300,000** 2020-2023 (PI)
- "Investigation of Field Effect Organic Photovoltaics based on Vertical Transistors" *National Natural Science Foundation of China* **¥700,000** 2020-2023 (PI)
- "Interfacial engineering for high performance printed thin film transistors" *National Key Research and Development Program of China* **¥6,000,000** 2016-2020 (PI)
- "Small molecular:polymer:fullerene ternary solar cell from blade coating" *National Natural Science Foundation of China* **¥230,000** 2016-2018 (PI)
- "High performance organic electronic materials and devices" *Research funding form Fuzhou University* **¥3,000,000** 2015-2108 (PI)

Recent Invited Talks

- 20th International Meeting on Information Display 2020
 16th International Thin Film Transistor Conference 2020
 2th National Organic Field Effect Transistors 2019
 International Conference on Computer Aided Design for Thin-Film Transistor Technologies 2018
 15th International Thin Film Transistor Conference 2018

PROFESSIONAL AFFILIATIONS

The Youth Editor for "SmartMat"

- Review for:
Nature Electronics Since 8/2019
Nature Communications Since 6/2018
Advanced Materials Since 7/2012
Advanced Functional Materials since 11/2011

Advanced Energy Materials since 2/2012
ACS Applied Materials & Interfaces since 2016/1
Chemical Communication since 1/2013
Macromolecules since 6/2011
Polymer Chemistry since 1/2013
Journal of Physical Chemistry 12/1012
Macromolecular Materials and Engineering since 6/2010
Macromolecular Chemistry and Physics since 7/2011
Journal of Polymer Science Part B: Polymer Physics since 4/2011
Journal of Chemical & Engineering Data since 5/2011
Journal of Thermal Analysis and Calorimetry since 7/2011
Polymer Testing since 7/2011
European Polymer Journal since 6/2011
Journal of Non-Crystalline Solids since 3/2012
Industrial & Engineering Chemistry Research since 9/2011
Fibers and Polymers since 4/2012