

Yichuan Zhang received his bachelor degree in 2009 and master degree in 2012 from Sichuan University, China. Later, he worked in industry for over two years. Then he received PhD degree from KU Leuven, Belgium and PhD degree from University of Mons, Belgium, in 2019. He subsequently joined the group of Prof. Guangming Chen as an associate researcher at College of Materials Science and Engineering, Shenzhen University. His research mainly contains thermoelectric composites, wetting dynamics and conductive polymer composites.



Email: yichuan.zhang@szu.edu.cn, zhangyichuan1986@qq.com

ORCID: <https://orcid.org/0000-0001-9260-161X>

Google Scholar: <https://scholar.google.com/citations?user=BUckbE4AAAAJ&hl=zh-CN>

ResearchGate: https://www.researchgate.net/profile/Yichuan_Zhang4

Education

Mar. 2015-Mar. 2019

PhD in Engineering Science, KU Leuven, Belgium

PhD in Science, Université de Mons, Belgium

Jun. 2012- Sep. 2009

Master in Engineering Science, Sichuan University, China

Jun 2009- Sep 2005

Bachelor in Engineering Science, Sichuan University, China

Publications (* corresponding authors, # Co-first authors)

1) Z Li, L Deng, H Lv, L Liang, W Deng, **Y Zhang***, G Chen*. Mechanically robust and flexible films of ionic liquid-modulated polymer thermoelectric composites. *Adv. Funct. Mater.* 2021, accepted.

1) W Deng, L Deng, Z Li, **Y Zhang***, G Chen.* Synergistically boosting thermoelectric performance of PEDOT:PSS/SWCNT composites via the ion-exchange effect and promoting SWCNT dispersion by the ionic liquid. *ACS Appl. Mater. Interfaces* 2021, 13, 12131-12140.

2) L Deng, X Huang, H Lv, **Y Zhang***, G Chen.* Unravelling the mechanism of processing protocols

induced microstructure evolution on polymer thermoelectric performance. *Appl. Mater. Today* 2021, 22: 100959.

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7) **Y Zhang***, S Moins, O Coulembier, D Seveno, J De Coninck. Capillary rise of polydimethylsiloxane around a poly(ethylene terephthalate) fiber versus viscosity: existence of a sharp transition in the dynamic wetting behavior, *J. Colloid Interface Sci.* 2019, 536, 499-506.

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12) **Y Zhang**, K Dai, J Tang, X Ji, Z Li*. Anisotropically conductive polymer composites with a selective distribution of carbon black in an in situ microfibrillar reinforced blend. *Mater. Lett.*, 2010, 64: 1430-1432.

13) **Y Zhang**, K Dai, H Pang, Q Luo, Z Li*, W Zhang. Temperature and time dependence of electrical resistivity in an anisotropically conductive polymer composite with in situ conductive

microfibrils. *J. Appl. Polym. Sci.*, 2012, 124: 1808-1814.

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15) L Deng, **Y. Zhang**, S Wei, H Lv, G Chen*. Highly foldable and flexible films of PEDOT:PSS/Xuan paper composites for thermoelectric application. *J. Mater. Chem. A*, 2021, 9, 8317-8324.

16) H Lv, L Liang, Y Zhang, L Deng, Z Chen, Z Liu*, H Wang*, G Chen*. A flexible spring-shaped architecture with optimized thermal design for wearable thermoelectric energy harvesting. *Nano Energy* 2021, 88: 106260.

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Book Chapters

1) **Y Zhang**, Z Li. "Microfibril Reinforced Polymer-Polymer Composite via Hot Stretching: Electrically Conductive Functionalization" in Chapter 13 of *Synthetic Polymer-Polymer Composites*, D. Bhattacharyya and S. Fakirov (Eds.), Hanser Verlag, 2012, pages: 437-463. Print ISBN: 978-1-

56990-510-4.

2) **Y Zhang**. "Calendaring molding" in Chapter 8 of *Processing Techniques of Synthetic Resins*, R. Huang (Edited), Chemical Industry Press, 2014, pages: 368-398. Print ISBN: 9787122200525.

Patents

1) X Xu, B Liu, R Yang, W Li, F Zhang, Q Liu, **Y Zhang**, et al. Coal chemical grouting method for filling high-risk areas Chinese invention patent. Patent Number: ZL201410425396.4.