

Yangyang Han

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Education Background

Sichuan University Ph.D., Materials science	Sep. 2016-Jun. 2021
Sichuan University M.S., Materials science	Sep. 2015-Sep. 2016
Sichuan University B.S., Polymer Science & Engineering	Sep. 2011-Jun. 2015

Research Experience

Singapore-MIT Alliance for Research and Technology Postdoctoral associate (Supervisor: Prof. Benedetto Marelli) <ul style="list-style-type: none">● Micro and nanofabrication of biomaterials● Drug delivery in plants and food	Aug. 2021-
ETH Zurich, Switzerland Visiting Ph.D. student (Supervisor: Prof. Raffaele Mezzenga) <ul style="list-style-type: none">● Protein fibrils based functional 2D/3D materials● Enzyme sensors based on conductive amyloid aerogel● Interfacial electrostatic self-assembly	Sep. 2018-Sep. 2020
Sichuan University, China Ph.D. student (Supervisor: Prof. Canhui Lu) <ul style="list-style-type: none">● Flexible/wearable electronics and sensors● Self-healing stretchable materials● Conductive materials with unique micro/nano-structures	Sep. 2016-Aug. 2018

Publications

1. **Yangyang Han**, Yiping Cao, Sreenath Bolisetty, Tian Tian, Stephan Handschin, Canhui Lu, Raffaele Mezzenga. Amyloid Fibril-Templated High-Performance Conductive Aerogels with Sensing Properties. *Small*, 2020, 2004932. (Inside cover)
2. **Yangyang Han**, Xiaodong Wu, Xinxing Zhang, Canhui Lu. Archimedean Spiral Inspired Conductive Supramolecular Elastomer with Rapid Electrical and Mechanical Self-Healing Capability for Sensor Application. *Advanced Materials Technologies*, 2019, 4, 1800424.
3. **Yangyang Han**, Xiaodong Wu, Xinxing Zhang, Canhui Lu. Self-Healing, Highly Sensitive Electronic Sensors Enabled by Metal-Ligand Coordination and Hierarchical Structure Design. *ACS Applied Materials & Interfaces*, 2017, 9, 20106-20114.
4. **Yangyang Han**, Xiaodong Wu, Xinxing Zhang, Zehang Zhou, Canhui Lu. Reductant-Free Synthesis of Silver Nanoparticles-Doped Cellulose Microgels for Catalyzing and Product Separation. *ACS Sustainable Chemistry & Engineering*, 2016, 4, 6322-6331.
5. **Yangyang Han**, Xiaodong Wu, Xinxing Zhang, Zehang Zhou, Canhui Lu. Dual Functional Biocomposites Based on Polydopamine Modified Cellulose Nanocrystal for Fe³⁺-Pollutant Detecting and Autoblocking. *ACS Sustainable Chemistry & Engineering*, 2016, 4, 5667-5673.
6. **Yangyang Han**, Xinxing Zhang, Xiaodong Wu, Canhui Lu. Flame Retardant, Heat Insulating Cellulose Aerogels from Waste Cotton Fabrics by in Situ Formation of Magnesium Hydroxide Nanoparticles in Cellulose Gel Nanostructures. *ACS Sustainable Chemistry & Engineering*, 2015, 3, 1853-1859.

Honors and Awards

China National Scholarship for Doctoral Student	2017
Poster Award of Polymer Processing Society Asia/Australia Conference	2016
Excellent Graduate Award, Sichuan University	2015