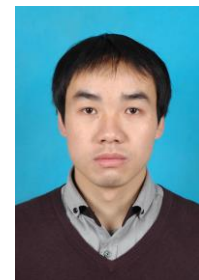


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研究经历:

- 09/2014 -现在: Postdoctoral Fellow

Harvard University, Cambridge

- 09/2013-09/2014: Postdoctoral Research Associate

University of Notre Dame, South Bend

教育背景:

09/2008-07/2013: School of Chemistry & Chemical Engineering, Huazhong University of Science and Technology, Wuhan, P. R. China.

Degree: PhD, Major: Polymer Chemistry and Physics

09/2004-06/2008: Hubei University, Wuhan, P. R. China.

Degree: Bachelor's degree, Major: Materials Science and Engineering

其他经历

同行评审杂志审稿人: *Carbohydrate Polymers*, *Food Hydrocolloids*, *ACS Applied Materials & Interface*, *Soft matter*, *Sensors and Actuators B: Chemical*, *Lab on a chip*

已经发表的同行评审研究论文:

1. **Y. Hu**,* J. Peréz-Mercader.* Controlled Synthesis of Uniform, Micrometer-Sized Ruthenium-Functionalized Poly(N-Isopropylacrylamide) Gel Particles and their Application to the Catalysis of the Belousov–Zhabotinsky Reaction. *Macromolecular Rapid Communications*, 2016, DOI: 10.1002/marc.201600577. (*通讯作者. 被 *Macromolecular Rapid Communications* 选为 *back cover* : <http://onlinelibrary.wiley.com/doi/10.1002/marc.201770011/full>)
2. **Y. Hu**,* J. Peréz-Mercader.* Microfluidic fabrication of polymersomes enclosing an active Belousov-Zhabotinsky reaction: effect on their stability of solute concentrations in the external media. *Colloids and Surfaces B: Biointerfaces*, 2016, 146 406–414. (*通讯作者)
3. **Y. Hu**, S. Wang, A. Abbaspourrad, A. M. Ardekani. Fabrication of Shape Controllable Janus Alginate/pNIPAAm Microgels via Microfluidics Technique and Off-Chip Ionic Cross-Linking. *Langmuir*, 2015, 31 (6), pp 1885–1891. (被 *Purdue* 作为高亮新闻 同时被 <https://phys.org/> 网站报道). 被引次数 : 7

4. **Y. Hu**, G. Azadi, A. M. Ardekani. Microfluidic fabrication of shape-tunable alginate microgels: Effect of size and impact velocity. *Carbohydrate Polymers*, 2015, 120:38-45. 被引次数 : 6
5. **Y. Hu**, J. Wang, C. Li, Z. Li, R. Liang, Q. Wang, H. Wang, J. Zhu, Y. Yang. Non-spherical hollow microgels with uniform sizes and tunable shapes from microfluidic-assisted approach. *Science of Advanced Materials*, 2015, 7(5):902-908.
6. **Y. Hu**, J. Wang, C. Li, Q. Wang, H. Wang, J. Zhu, Y. Yang. Janus Photonic Crystal Microspheres: Centrifugation-Assisted Generation and Reversible Optical Property. *Langmuir*, 2013, 29 (50), 15529–15534. 被引次数 : 15
7. **Y. Hu**, J. Wang, H. Wang, Q. Wang, J. Zhu, Y. Yang. Microfluidic fabrication and thermo-reversible response of core/shell photonic crystal microspheres based on deformable nanogels. *Langmuir*, 2012, 28, 17186 – 17192. 被引次数 : 34
8. **Y. Hu**, Q. Wang, J. Wang, J. Zhu, H. Wang, Y. Yang. Shape controllable microgel particles prepared by microfluidic combining external ionic crosslinking. *Biomicrofluidics*. 2012.6(2):p.026502. (被 *AIP Biomicrofluidics* 作为高亮文章重点介绍, 同时该论文被选为 2012 年 6 月 4 日出版的 *Virtual Journal of Nanoscale Science & Technology* 上. 8th of the top 20 Most Read Articles June to September 2012). 被引次数 : 50
9. X. Jia, K. Wang, J. Wang, **Y. Hu**, L. Shen, J. Zhu. Full-Color Photonic Hydrogels for pH and Ionic Strength Sensing. *European Polymer Journal*, 2016, 83, 60–66.
10. X. Jia, **Y. Hu**, K. Wang, Liang, J. Li, J. Wang, J. Zhu. Uniform Core–Shell Photonic Crystal Microbeads as Microcarriers for Optical Encoding. *Langmuir*, 2014, 30 (40), pp 11883–11889. 被引次数 : 4
11. Q. Wang, X. Xiao, **Y. Hu**, H. Wang, Y. Yang. Reinforcement of phenylalanine-based supramolecular hydrogels by hybridizing poly(N-isopropylacrylamide) nanogels. *RSC Adv.*, 2014, 4, 22380-22386. 被引次数 : 6
12. J. Wang, **Y. Hu**, R. Deng, R. Liang, W. Li, S. Liu, J. Zhu. Multiresponsive Hydrogel Photonic Crystal Microparticles with Inverse-Opal Structure. *Langmuir*, 2013, 29 (28), pp 8825–8834. 被引次数 : 22
13. J. Wang, **Y. Hu**, R. Deng, W. Xu, S. Liu, R. Liang, Z. Nie, J. Zhu. Construction of multifunctional photonic crystal microcapsules with tunable shell structures by combining microfluidic and controlled photopolymerization. *Lab Chip*, 2012. 12(16): p. 2795-8. 被引次数 : 18

以上引用数据均来自于 Google scholar （截止 2017.02）

待发表的研究论文及专利:

1. **Y. Hu**, J. Peréz-Mercader*. Microfluidics fabrication of self-oscillating microgels clusters with tailored temperature responsive property using polymersomes as a ‘microreactor’. *To be submitted*, 2017.
2. **Y. Hu**, J. Peréz-Mercader*. One step fabrication of monodispersed self-oscillating colloidosomes with chemomechanical oscillating properties using microfluidics. *In preparation*, 2017.
3. **Y. Hu**, J. Peréz-Mercader*. Non imperative fabrication of monodispersed self-oscillating microgels from macromolecular precursors within droplets ‘microreactors’ fabricated by microfluidics. *In preparation*, 2017.
4. **Y. Hu**, J. Peréz-Mercader*. A simple, versatile and high throughput glass-capillary microfluidic device for the production of polymersomes, microcapsules and multiple emulsions. *In preparation* (Patent), 2017.

综合技能:

- 聚合物合成: RAFT, Free radical polymerization, polycondensation reactions, emulsion polymerization, various of polymer modification reactions
- 单分散胶体的合成: SiO₂, Polystyrene (PS), poly(N-Isopropylacrylamide) (pNIPAAm) based copolymers, poly(ethylene glycol) (PEG) based copolymers, core/shell particles (Au-pNIPAAm, PS-pNIPAAm etc.)
- 技术: Soft lithography (mainly photolithography) based microfluidics, glass capillaries based microfluidics, surface modification on solid materials
- 分析技术及手段: Nuclear magnetic resonance spectroscopy, Fourier transform infrared spectroscopy (FTIR), thermogravimetric analysis (TGA), differential scanning calorimetry (DSC), dynamic light scattering (DLS), Optical/Fluorescence microscopy (O/FM), Scanning electronic microscopy(SEM), Transmission electronic microscopy (TEM), Gel Permeation Chromatography (GPC)
- 计算机技能: Matlab, Origin, 3D max, Auto CAD, Adobe Photoshop, Adobe Illustrator