



Department: School of Chemical Engineering

Professional field: Materials-oriented chemical engineering

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Profile

Prof. Yiming Wang finished his PhD majored in Chemical Technology at East China University of Science and Technology (ECUST) in 2017. During his PhD, he temporarily moved to Delft University of Technology (TU Delft) in The Netherlands funded by China Scholarship Council (CSC) as a joint PhD. Since September 2017, he started to work as a postdoctoral researcher at TU Delft. From July 2019, he joined in the School of Chemical Engineering at ECUST, and worked as a professor in the field of materials-oriented chemical engineering.

Research Field

Bio-inspired smart materials and their applications in biomedicine.

Research results and selected published papers

1. Zhinan Fu, Yiming Wang*, Fen Li, Xiaofeng Niu, Li Li, Dianhua Liu, Zhiyong Liu, Xuhong Guo*. Access to different transient assemblies through kinetic control over the self-assembly of amphiphilic block copolymers using a versatile micromixer. *Chem. Eng. Sci.* 2021, 246, 116998.
2. Shengyu Bai, Xiaofeng Niu, Hucheng Wang, Lai Wei, Liqun Liu, Xinyu Liu, Rienk Eelkema, Xuhong Guo*, Jan H van Esch, Yiming Wang*. Chemical reaction powered transient polymer hydrogels for controlled formation and free release of pharmaceutical crystals. *Chem. Eng. J.* 2021, 414, 128877.
3. Yiming Wang, Zhi Xu, Matija Lovrak, Vincent A. A. le Sage, Kai Zhang, Xuhong Guo, Rienk Eelkema, Eduardo Mendes, Jan H van Esch*. Biomimetic strain-stiffening self-assembled hydrogels. *Angew. Chem. Int. Ed.* 2020, 59, 4830. (Back Cover)
4. Yiming Wang, Tomasz K. Piskorz, Matija Lovrak, Eduardo Mendes, Xuhong Guo, Rienk Eelkema, Jan H. van Esch*. Transient supramolecular hydrogels formed by aging- induced seeded self-assembly of molecular hydrogelators. *Adv. Sci.* 2020, 7, 1902487.
5. Xiaofeng Niu, Yu Wang, Chengyuan Xu, Zhinan Fu, Shengyu Bai, Jie Wang, Yiming Wang(*), Xuhong Guo*. Access to highly tough hydrogels by polymer modules for application of catalytic reactors. *Ind. Eng. Chem. Res.* 2020, 59, 4977.
6. Yiming Wang, Robin M. de Kruijff, Matija Lovrak, Xuhong Guo, Rienk Eelkema, Jan H. van Esch*. Access to metastable gel states using seeded self-assembly of low-molecular-weight gelators. *Angew. Chem. Int. Ed.* 2019, 58, 3800.
7. Yiming Wang, Matija Lovrak, Qian Liu, Chandan Maity, Vincent A. A. le Sage, Xuhong Guo, Rienk Eelkema, Jan H. van Esch*. Hierarchically compartmentalized supramolecular gels through multilevel self-sorting. *J. Am. Chem. Soc.* 2019, 141, 2847. (Suppl. Cover)
8. Yu Wang, Yiming Wang(*), Jie Wang, Fang Zhao, Zhi Xu, Zhenyu Yuan, Xiaofeng Niu, Li Li, Shengyu Bai, Yulin Shi, Xuhong Guo*. Mineralized supramolecular hydrogels bearing tunable thermos-responsiveness. *Macromol. Rapid Commun.* 2019, 40, 1900516. (Front Cover)
9. Yiming Wang, Sander Oldenhof, Frank Versluis, Maulik Shah, Kai Zhang, Volkert van Steijn, Xuhong Guo*, Rienk Eelkema*, Jan H. van Esch*. Controlled fabrication of micropatterned supramolecular gels by directed self-assembly of small molecular gelators. *Small* 2019, 15, 1804154.
10. Yiming Wang, Frank Versluis, Sander Oldenhof, Vasudevan Lakshminarayanan, Kai Zhang, Yunwei Wang, Jie Wang, Rienk Eelkema*, Xuhong Guo*, Jan H. van Esch*. Directed nanoscale self-assembly of low molecular weight hydrogelators using catalytic nanoparticles. *Adv. Mater.* 2018, 30, 1707408.