

Yuanyuan Wang

Office: Room G221, School of Chemistry and Chemical Engineering,
Nanjing University, 163 Xianlin Avenue, Nanjing, China

Phone: +86-18052098416

Email: wangyy@nju.edu.cn

RESEARCH INTERESTS

- Design and synthesis of cluster-based nanomaterials
- Development of new inorganic photoresists
- 2D assembly and 3D printing of nanomaterials
- Design and Fabrication of nanocrystal thin film devices

RESEARCH EXPERIENCE

2019–pres. **Nanjing University, School of Chemistry and Chemical Engineering**
Professor

2014–2019 **University of Chicago, James Franck Institute**
Postdoctoral Scholar, DOLFIN sub-group leader, Nanopattern Technologies science leader
Advisor: Dmitri V. Talapin

EDUCATION

2009–2014 **Washington University in St. Louis, Department of Chemistry**
PhD, Inorganic Chemistry
Advisor: William E. Buhro

2006–2009 **Nanjing University, School of Chemistry and Chemical Engineering**
MS, Analytical Chemistry
Advisor: Jun-jie Zhu

2002–2006 **Nanjing University, School of Chemistry and Chemical Engineering**
BS, Chemistry

SELECTED PUBLICATIONS

1. P Xiao, Z Zhang, J Ge, Y Deng, X Chen, J Zhang, Z Deng, K Yu, D V Talapin* and **Y Wang***, Surface passivation of intensely luminescent all-inorganic nanocrystals and their direct optical patterning, *Nat. Commun.*, **2023**, 14, 49
2. J Ge, J Liang, X Chen, Y Deng, P Xiao, J-J, Zhu and **Y Wang***, Designing inorganically functionalized magic-size II–VI clusters and unraveling their surface states, *Chem. Sci.*, **2022**, 13, 11755
3. J Yang, X Li, J Zhang, Y Zhou* and **Y Wang***, Direct Formation of Colloidal All-Inorganic Metal Nanocrystals from Magic-Size Clusters, *ACS Appl. Mater. Interfaces*, **2022**, 14, 22838
4. H Wu^(#), **Y Wang^(#)**, J Yu, J Pan, H Cho, A Gupta, I Coropceanu, C Zhou, J Park and D V Talapin* Direct Heat-Induced Patterning of Inorganic Nanomaterials, *J. Am. Chem. Soc.*, **2022**, 144, 10495
5. **Y Wang**, I Fedin, H Zhang and D V Talapin*, Direct Optical Lithography of Functional Inorganic Nanomaterials, *Science*, **2017**, 357, 385.

PATENTS

1. D V Talapin, **Y Wang**, H Zhang, “Photoactive, inorganic ligand-capped inorganic nanocrystals,” 2017. US WO 2018/195143
2. D V Talapin; **Y Wang**; J Pan; H Wu, “Photosensitive, inorganic ligand-capped inorganic nanocrystals”, 2020, US, WO 2020123021 A2 20200618