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Education

- May 2003-July 2007: **Ph.D.** in Organic Chemistry, **Queen's University, Canada**;
Advisor: Dr. Donal H. Macartney, Professor of Chemistry
Governor General Gold Medal Nominee (2008)
Outstanding Thesis Award from Queen's University (2008)
- September 1998-July 2002: **B.Sc. (Honors) in Chemistry**, Jilin University, China
Outstanding Graduate from Jilin University (2002)

Working Experience

- Aug 2023-Present, **Professor** of Supramolecular Pharmaceutics and Nanomedicine, Institute of Chinese Medical Sciences, (also affiliated with Department of Pharmaceutical Sciences, Faculty of Health Sciences), **University of Macau**, Taipa, Macau SAR
- Jan 2021-Present, **Director** of Global Affairs Office, University of Macau
- Aug 2019-Present, **Associate Professor** of Supramolecular Biomaterials and Nanomedicine, Institute of Chinese Medical Sciences, (also affiliated with Department of Pharmaceutical Sciences, Faculty of Health Sciences), **University of Macau**, Taipa, Macau SAR
- Oct 2014-Aug 2019, **Assistant Professor** of Supramolecular Biomaterials and Nanomedicine, Institute of Chinese Medical Sciences, **University of Macau**, Taipa, Macau SAR
- Nov 2009-Oct 2014, **Senior Scientist**, Interventional Medicine R&D, **BTG plc.** (Canadian branch, formerly a part of **Nordion Inc.**, now a part of **Boston Scientific**), Ottawa, Canada
- May 2008-Nov 2009, **Associate Research Officer** (started as a Research Associate) at Steacie Institute for Molecular Sciences, **National Research Council of Canada**, Ottawa, Canada
- Aug 2007-May 2008, **Postdoctoral Fellow**, Department of Chemistry at Queen's University, Canada

Awards and Honors

2023	YIP Visiting Fellow, Magdalene College, University of Cambridge
2022	Macau Science and Technology Awards (2nd Prize, Natural Science Award), Macau
2021	ICMS Outstanding Academic Staff Award, University of Macau
2021	Fudan Scholar, Fudan University
2020	Fellow, the Royal Society of Chemistry
2020	Macau Science and Technology Awards (3rd Prize, Technological Invention Award), Macau
2019	2018-2019 Top 1% Reviewer in Cross-Fields by Publons
2019	2018-2019 Top 1% Reviewer in Chemistry by Publons
2019	Chinese Periodic Table of Young Chemists
2019	UM Teaching Excellence Award (only 1 awardee each year at UM), Macau
2019	China Macrocyclic Arenes and Supramolecular Chemistry Rising Star Award, China
2019	Faculty-Level Best Teacher Award, Macau
2018	Macau Science and Technology Awards (3rd Prize, Natural Science Award), Macau
2018	Faculty-Level Academic Award, Macau
2016	CNRS Visiting Professorship, Marseille, France
2013	BTG Business Excellerator Stage Award, Ottawa, Canada
2011	Nordion Business Excellerator Sprinter Award, Ottawa, Canada
2008	Outstanding Thesis Award at Queen's, Kingston, Canada
2003-2007	Queen's Graduate Awards, Kingston, Canada
2004-2007	Queen's Conference Travel Awards, Kingston, Canada
2005-2006	Graduate Dean's Doctoral Field Travel Grant at Queen's, Kingston, Canada
2002	Outstanding Graduate of Jilin University (top 1%), Changchun, China
1998-2002	Excellent Undergraduate Scholarship, Changchun, China

Publications (H-index of 56)

Selected 30 Papers (Past 5 Years)

A total SCI publication of **200+ papers**, with a total citation of over 10,000+ times and **H-index of 56** (Google Scholar, in Jan 2024); A full list of publications is available upon request, and is also available on Scopus (Author ID: 10539702400 and ORCID: 0000-0001-9489-4241) and Google Scholar.

1. Cheng Gao, Cheryl H.T. Kwong, Mian Tang, Jinwei Liu, Hiotong Kam, Shengke Li, Simon M. Y. Lee, Chunhai Fan, Hua-Zhong Yu, Ruibing Wang*, "A bacterially engineered macrophage sponge as a neutralization decoy to treat bacterial infection," *Matter*, 2023, 6, 3889-3911. Highlighted by Zhao et al, *Matter*, 2023, 6, 3695-3698.
2. Ludan Yue, Cheng Gao, Junyan Li, Hanbin Chen, Simon M. Y. Lee, Ruifeng Luo, Ruibing Wang*, "Chemotaxis-guided self-propelled macrophage motor for targeted treatment of acute pneumonia," *Advanced Materials*, 2023, 35, 202211626.
3. Meng Xu, Haidong Zha, Jiamao Chen, Simon Ming-Yuen Lee, Qi Wang*, Ruibing Wang*, Ying Zheng*, "“Ice & Fire” Supramolecular Cell-Conjugation Drug Delivery Platform for Deep Tumor Ablation and Boosted Anti-Tumor Immunity," *Advanced Materials*, 2023, 35, 202305287.
4. Beibei Xie, Huichao Zhao, Yuanfu Ding, Ziyi Wang, Cheng Gao, Shengke Li, Kehan Zhang, Seong Wan Ip, Huazhong Yu, **Ruibing Wang***, "Supramolecularly Engineered Conjugate of Bacteria and Cell Membrane-Coated Magnetic Nanoparticles for Enhanced Ferroptosis and Immunotherapy of Tumors," *Advanced Science*, 2023, 10, 2304407.
5. Cheng Gao, Qingfu Wang, Junyan Li, Cheryl H.T. Kwong, Jianwen Wei, Beibei Xie, Siyu Lu, Simon M. Y. Lee,* and Ruibing Wang*, "In vivo hitchhiking of immune cells by intracellular self-assembly of bacteria-mimetic nanomedicine for targeted therapy of melanoma," *Science Advances*, 2022, 8, eabn1805. [Selected as Science Advances feature article, with artworks showcased online.](#)
6. Ziyi Wang, Chen Sun, Kuikun Yang, Xiaoyuan Chen* and Ruibing Wang*, "Cucurbituril-Based Supramolecular Polymers for Biomedical Applications," *Angewandte Chemie International Edition*, 2022, 61, e2022067.
7. Cheng Gao, Cheryl H.T. Kwong, Qingfu Wang, Hiotong Kam, Jianwen Wei, Qian Chen, Jian Zhang, Simon M. Y. Lee,* Dayong Gu and Ruibing Wang*, "Surface-engineered chlorella alleviated hypoxic tumor microenvironment for enhanced chemotherapy and immunotherapy of first-line drugs," *Materials Today*, 2022, DOI: 10.1016/j.mattod.2022.06.024, in press.
8. Ziyi Wang, Chen Sun, Kuikun Yang, Xiaoyuan Chen* and Ruibing Wang*, "Cucurbituril-Based Supramolecular Polymers for Biomedical Applications," *Angewandte Chemie International Edition*, 2022, DOI: 10.1002/anie.202206763, in press.
9. Kuikun Yang, Zhiqing Yang, Guocan Yu*, Zhihong Nie*, Ruibing Wang*, Xiaoyuan Chen*, "Polyprodrug Nanomedicines: An Emerging Paradigm for Cancer Therapy," *Advanced Materials*, 2022, 34, 2107434.
10. Kuikun Yang, Guocan Yu, Zhiqing Yang, Ludan Yue, Xiangjun Zhang, Chen Sun, Jianwen Wei, Lang Rao, Xiaoyuan Chen,* and Ruibing Wang*, "Supramolecular Polymerization-induced Nanoassemblies for Self-augmented Cascade Chemotherapy and Chemodynamic Therapy of Tumor," *Angewandte Chemie International Edition*, 2021, 60, 17570-17578.
11. Shuwen Guo, Qiaoxian Huang, Yuan Chen, Jianwen Wei, Jun Zheng, Leyong Wang, Yitao Wang and Ruibing Wang*, "Synthesis and Bioactivity of Guanidinium - Functionalized Pillar[5]arene as a Biofilm Disruptor," *Angewandte Chemie International Edition*, 2021, 60, 618-623 ([hot paper and frontpiece highlight](#)).
12. Ludan Yue, Kuikun Yang, Xin-Yue Lou, Ying-Wei Yang* and Ruibing Wang*, "Versatile roles of macrocycles in organic-inorganic hybrid materials for biomedical applications," *Matter*, 2020, 3, 1557-1588.
13. Chen Sun, Ziyi Wang, Ludan Yue, Qiaoxian Huang, Qian Cheng and Ruibing Wang*, "Supramolecular Induction of Mitochondrial Aggregation and Fusion," *Journal of the American Chemical Society*, 2020, 142, 16523-16527 ([featured as a Supplementary Cover Article](#)).
14. Cheng Gao, Qian Cheng, Jianwen Wei, Chen Sun, Siyu Lu, Cheryl H.T. Kwong, Simon M.Y. Lee, Zhiyuan Zhong* and Ruibing Wang*, "Bioorthogonal supramolecular cell-conjugation for targeted hitchhiking drug delivery," *Materials Today*, 2020, 40, 9-17 ([selected as an Inside Cover Feature Article](#)).
15. Xue Yang, Ruibing Wang,* Anthony Kermagoret,* and David Bardelang,* "Oligomeric Cucurbituril Complexes: from Peculiar Assemblies to Emerging Applications," *Angewandte Chemie International Edition*, 2020, 132, 21464-21476.
16. Cheng Gao, Qiaoxian Huang, Conghui Liu, Cheryl H.T Kwong, Ludan Yue, Jian-Bo Wan, Simon M. Y. Lee* and Ruibing Wang*, "Treatment of atherosclerosis by macrophage-biomimetic nanoparticles via targeted pharmacotherapy and sequestration of proinflammatory cytokines," *Nature Communications*, 2020, 11, 2622. Highlighted by Nature Review Cardiology, 2020.

17. Chenwen Li, Yang Zhao, Juan Cheng, Jiawei Guo, Qixiong Zhang, Xiangjun Zhang, Jiong Ren, Fengchao Wang, Jun Huang, Houyuan Hu, Ruibing Wang,* and Jianxiang Zhang,* “A Proresolving Peptide Nanotherapy for Site-Specific Treatment of Inflammatory Bowel Disease by Regulating Proinflammatory Microenvironment and Gut Microbiota,” *Advanced Science*, 2019, 6, 1900610.
18. Sébastien Combes, Khoa Truong Tran, Mehmet Menaf Ayhan, Hakim Karoui, Antal Rockenbauer, Alain Tonetto, Valérie Monnier, Laurence Charles, Roselyne Rosas, Stéphane Viel, Didier Siri, Paul Tordo, Sylvain Clair, Ruibing Wang,* David Bardelang,* and Olivier Ouari,* “Triangular regulation of cucurbit[8]uril 1:1 complexes,” *Journal of the American Chemical Society*, 2019, 141, 5897-5907 ([selected as a Supplementary Cover Article](#)).
19. Cheng Gao, Qiaoxian Huang, Qingping Lan, Yu Feng, Fan Tang, Maggie P.M. Hoi, Jianxiang Zhang, Simon M. Y. Lee,* and Ruibing Wang,* “A user-friendly herbicide derived from photo-responsive supramolecular vesicles,” *Nature Communications*, 2018, 9, 2967.
20. Songling Han, Siyu Chen, Lanlan Li, Jin Li, Huijie An, Hui Tao, Yi Jia, Shan Lu, Ruibing Wang,* and Jianxiang Zhang,* “Multiscale and Multifunctional Emulsions by Host-Guest Interaction-Mediated Self-Assembly,” *ACS Central Science*, 2018, 4, 600-605 (banner highlight).