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GENERAL INFORMATION

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)

Employment

- Jan 2021-Present, **Director** of Global Affairs Office, University of Macau
- Aug 2019-Present, **Associate Professor**, 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 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

2021	ICMS Outstanding Academic Staff Award, University of Macau
2021	World Top 100,000 Scientists (globalauthorid.com)
2020	Stanford World Top 2% Scientists
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, Macau
2019	China Macrocyclic Arenes and Supramolecular Chemistry Rising Star Award, China
2019	ICMS Best Teacher Award, Macau
2018	Macau Science and Technology Awards (3rd Prize, Natural Science Award), Macau
2018	ICMS Outstanding Academic Staff Award, Macau

PUBLICATIONS

Selected 20 Papers (Past 3 Years)

A total SCI publication of **190+ papers**, with a total citation of over 5500+ times and **H-index of 43** (Google Scholar, in Dec. 2021); A full list of publications is available on Scopus (Author ID: 10539702400 and ORCID: 0000-0001-9489-4241) and Google Scholar.

1. 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.

2. 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. [Selected as hot paper and frontpiece highlight.](#)
3. Cheng Gao, Qian Cheng, Junyan Li, Jia Chen, Qingfu Wang, Jianwen Wei, Qiaoxian Huang, Simon M. Y. Lee,* Dayong Gu,* **Ruibing Wang**,* “Supramolecular macrophage-liposome marriage for cell-hitchhiking delivery and immunotherapy of acute pneumonia and melanoma,” *Advanced Functional Materials*, 2021, 37, 2102440.
4. Kuikun Yang, Guocan Yu, Rui Tian, Zijian Zhou, Hongzhang Deng*, Ling Li, Zhen Yang, Guofeng Zhang, Dahai Liu, Jianwen Wei, Ludan Yue, **Ruibing Wang**,* and Xiaoyuan Chen,* “Oxygen-Evolving Manganese Ferrite Nanovesicles for Hypoxia-Responsive Drug Delivery and Enhanced Cancer Chemoimmunotherapy,” *Advanced Functional Materials*, 2021, 31, 2008078.
5. Ludan Yue, Kuikun Yang, Junyan Li, Qian Cheng and **Ruibing Wang*** “Self-Propelled Asymmetrical Nanomotor for Self-Reported Gas Therapy,” *Small*, 2021, 17, 202102286.
6. Qian Cheng, Ludan Yue, Junyan Li, Cheng Gao, Yuanfu Ding, Chen Sun, Mengze Xu, Zhen Yuan, and **Ruibing Wang**,* “Supramolecular tropism driven aggregation of nanoparticles in situ for tumor-specific bioimaging and photothermal therapy,” *Small*, 2021, 17, 2101332.
7. Chen Sun, Ziyi Wang, Kuikun Yang, Ludan Yue, Qian Cheng, Yan-long Ma, Siyu Lu, Guosong Chen, and **Ruibing Wang**,* “Polyamine-responsive Morphological Transformation of a Supramolecular Peptide for Specific Drug Accumulation and Retention in Cancer Cells,” *Small*, 2021, 17, 202101139.
8. Kuikun Yang, Ludan Yue, Zhiqing Yang, Guocan Yu, Lang Rao, Rui Tian, Jianwen Wei, Chen Sun, Xiangjun Zhang, Mengze Xu, Zhen Yuan, Xiaoyuan Chen,* and **Ruibing Wang**,* “A Hypoxia Responsive Nanoassembly for Tumor Specific Oxygenation and Enhanced Sonodynamic Therapy,” *Biomaterials*, 2021, 275, 120822.
9. Jia Chen, Shengke Li, Zeyu Wang, Yating Pan, Jianwen Wei, Siyu Lu, Qing-Wen Zhang, LianHui Wang and **Ruibing Wang*** “Synthesis of AIEgen Functionalized Cucurbit[7]uril for Subcellular Bioimaging and Synergistic Photodynamic Therapy and Supramolecular Chemotherapy“, *Chemical Science*, 2021, 12, 7727-7734. [Selected as a Chem Sci Pick!](#)
10. Hang Yin, David Bardelang* and **Ruibing Wang**,* “Macrocycles and Related Hosts as supramolecular antidotes,” *Trends in Chemistry*, 2021, 3, 1-4.
11. 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.
12. 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.](#)
13. Qiaoxian Huang, Hong Zhao, Mingju Shui, Dong-Sheng Guo* and **Ruibing Wang**,* “Heparin Reversal by an Oligoethylene Glycol Functionalized Guanidinocalixarene,” *Chemical Science*, 2020, 11, 9623-9629.
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. 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, 454.](#)
16. Tianlei Sun, Cheryl H. T. Kwong, Cheng Gao, Jianwen Wei, Ludan Yue, Jianxiang Zhang, Richard Dequan Ye* and **Ruibing Wang (correspondence author)**,* “Amelioration of ulcerative colitis via inflammatory regulation by macrophage-biomimetic nanomedicine,” *Theranostics*, 2020, 10, 10106-10119.
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](#)).

SERVICES

University and Faculty Services

Director, Global Affairs office, University of Macau, Jan. 2021-Present

Programme Director, State Key Laboratory of Quality Research in Chinese Medicine, July 2020-June 2021
Deputy Director, Editorial Office of *Chinese Medicine* (impact factor of 5.455), ISCM and University of Macau, Nov. 2016-Present

Coordinator, Social and Academic Affairs, Academic Staff Association at University of Macau, March 2016-2018

Fellow, Chao Kuang Piu College, University of Macau, Oct. 2014-Present

Committee Member, UM Scholarship Committee, Nov. 2018-Present

External Services

Editorial Advisory Board Member, *ACS Applied Bio Materials*, Jan. 2020-Present

Editor, *Journal of Nanomaterials*, February 2012-Present

Editorial Board Member, *Chinese Journal of Chemical Education* (Chinese Core journal), Jan 2017-Present

Review Editor for Medicinal and Pharmaceutical Chemistry Section, and Supramolecular Chemistry Section, *Frontiers in Chemistry*, Dec 2015-Present

Topic Editor for “Nanotechnology in Traditional Medicines and Natural Products”, *Frontiers in Chemistry*

Founding Member and President, *Macau Society of Supramolecular Chemistry and Biomaterials*, Nov. 2020-Present

Founding Member and Vice President, *Macau Society of Nuclear Medicine and Molecular Imaging*, Aug. 2016-Present

Vice-Chairman, Macau Local Organizing Committee, Macau Young Scientists competition and iSWEEEP competition for Macau Youth, leading Macau team to Houston (US), Hong Kong, and Turkey, winning several international competition medals in 2017 and 2018

External Examiner for National Natural Science Foundation of China (NSFC)

External Examiner for French National Research Agency (ANR)

External Examiner for Czech Science Foundation (GACR)

External Examiner for Israel Science Foundation (ISF)

Ad-hoc Referee for 60+ journals including *Nature Communications*, *Angew. Chem. Int. Ed.*, *ACS Nano*, *Nano Lett.*, *Nano Today*, *Chem. Sci.*, *Small*, *Biomaterials*, *Theranostics*, *Journal of Controlled Release*, *ACS Applied Materials & Interfaces*, *Chemical Communications*, and *Molecular Pharmaceutics*