

# Yuehua Deng



**Birthday:** June 14, 1997

**Nationality:** China

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## Education

- 2020/09-2024/06 PhD, Chemical Engineering and Technology, South China University of Technology, China
- 2022/10-2023/10 Guest PhD, Pharmaceutical Sciences, University of Copenhagen, Denmark
- 2016/09-2020/06 Bachelor, Applied Chemistry, South China University of Technology, China

## Working Experience

- 2024/08-2025/08 Postdoc Fellow Advanced Biomedical Instrumentation Centre Limited

## Research Interests

Crystal Engineering, Pharmaceutical Multi-Component Solid Forms, Molecular Dynamics Simulation, Density Functional Theory Calculation, Drug Solubility Enhancement via Drug Delivery

## Publications

1. **Yuehua Deng**, Shiyuan Liu, Yanbin Jiang\*, Holger Grohganz and Thomas Rades\*. Salt hydrates as a source to form co-amorphous systems when prepared in the absence of water: hydrogen bond analysis. *Chem. Eng. Sci.*, **2024**, 120232.
2. **Yuehua Deng**, Wei Luo, Zhiyong Zheng, Guixuan Wei, Shiyuan Liu\*, Yanbin Jiang\*, Huaiyu Yang. Prediction of co-amorphous formation using non-bonded interaction energy: Molecular dynamic simulation and experimental validation. *Chem. Eng. Sci.*, **2023**, 118618.
3. **Yuehua Deng**, Shiyuan Liu, Yanbin Jiang\*, Inês C. B. Martins, Thomas Rades\*. Recent advances in co-former screening and formation prediction of multicomponent solid forms of low molecular weight drugs. *Pharmaceutics*. **2023**, 15(9):2174.
4. **Yuehua Deng**, Wenhao Deng, Wenquan Huang, Zhiyong Zheng, Rui Zhang, Shiyuan Liu\*,

Yanbin Jiang\*. Norfloxacin Co-amorphous Salt Systems: Effects of Molecular Descriptors on the Formation and Physical Stability of Co-amorphous systems. *Chem. Eng. Sci.*, **2022**, 117549.

5. **Yuehua Deng**, Yuchen Chen, Fang Xie, Jingwen Tang, Rui Zhang, Huaiyu Yang, Yanbin Jiang\*, Shiyuan Liu\*. Minoxidil Multi-component Crystals with Aromatic Carboxylic Acids: Theoretical Calculation and Structural Analysis. *Cryst. Growth. Des.*, **2022**, 22(6): 3941–3953.
6. **Yuehua Deng**, Ge Huang, Shiyuan Liu, Min Zhang, Nikos S. Hatzakis\*, Yanbin Jiang\*. Loading Co-amorphous on Metal-Organic Frameworks for Gelation Elimination and Anti-cancer Drug Delivery Enhancement. *Chem. Eng. J.*, **2024**, 497, 154452.

## Conferences

2021/05	10th China Industrial Crystallization Science and Engineering Technology High-end Seminar	Tianjin, China
2022/07	11th China Industrial Crystallization Science and Engineering Technology High-end Seminar	Hainan, China
2022/08	14th Global Chinese Chemical Engineers Symposium	Guangzhou, China
2023/09	Drug Research Academy Summer School 2023 of the Graduate Program in Pharmaceutical Sciences	Copenhagen, Denmark
2023/09	17th Annual Meeting of the Pharmaceutical Solid-State Research Cluster (PSSRC)	Cambridge, UK
2024/07	The 8th International Young Scholars Forum of Dalian University of Technology	Dalian, China

## Personal

**Languages:** English (professional working proficiency), Mandarin and Cantonese (native)

**Computer:** Skilled in Microsoft OFFICE, ORIGIN, EndNote, etc.

**Chemistry & Software:** CHEMDRAW, SPSS, Mercury, Multiwfn, Molecular Operation Environment, CrystalExplorer, Material Studio, Gaussian, COSMOtherm, GROMACS, etc. Density Functional Theory Calculations and Molecular Dynamics Simulation

**Experiment skills:** XRPD, FTIR, Raman, DSC, TGA, HNMR, UV, Dissolution, SEM, HPLC, etc.

**References:** Thomas Rades (thomas.rades@sund.ku.dk), Yanbin Jiang (cebjiang@scut.edu.cn), Mingshi Yang (mingshi.yang@sund.ku.dk)

## Honors and Awards

2019	Meritorious Winner of Interdisciplinary Contest in Modeling
2022	President Scholarship of South China University of Technology
2023	Wuliangye Scholarship of South China University of Technology

# 邓月华



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籍贯: 广东云浮 政治面貌: 共青团员

## 教育背景

2020/09-2024/06 华南理工大学 化学工程与技术 博士  
2022/10-2023/10 丹麦哥本哈根大学 药学 国家公派联合培养博士生  
2016/09-2020/06 华南理工大学 应用化学 学士

## 工作经历

2024/08- 香港大学 李嘉诚医学院药理及药剂学系 博士后

## 研究领域

晶体工程, 药物多组分固体形式, 分子动力学模拟, 密度泛函理论计算, 药物递送

## 论文

- Yuehua Deng**, Ge Huang, Shiyuan Liu, Min Zhang, Nikos S. Hatzakis\*, Yanbin Jiang\*. Loading Co-amorphous on Metal-Organic Frameworks for Gelation Elimination and Anti-cancer Drug Delivery Enhancement. (*Chem. Eng. J.* **2024**, 497, 154452.)
- Yuehua Deng**, Shiyuan Liu, Yanbin Jiang\*, Holger Grohganz and Thomas Rades\*. Salt hydrates as a source to form co-amorphous systems when prepared in the absence of water: hydrogen bond analysis. *Chem. Eng. Sci.*, **2024**, 120232.
- Yuehua Deng**, Wei Luo, Zhiyong Zheng, Guixuan Wei, Shiyuan Liu\*, Yanbin Jiang\*, Huaiyu Yang. Prediction of co-amorphous formation using non-bonded interaction energy: Molecular dynamic simulation and experimental validation. *Chem. Eng. Sci.*, **2023**, 118618.
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6. **Yuehua Deng**, Yuchen Chen, Fang Xie, Jingwen Tang, Rui Zhang, Huaiyu Yang, Yanbin Jiang\*, Shiyuan Liu\*. Minoxidil Multi-component Crystals with Aromatic Carboxylic Acids: Theoretical Calculation and Structural Analysis. *Cryst. Growth. Des.*, **2022**, 22(6): 3941–3953.

## 学术会议

- |         |  |                     |
|---------|--|---------------------|
| 2021/05 | 米诺地尔-苯甲酸衍生物共晶的预测和制备, 第十届中国工业结晶科学与工程技术高端研讨会   | 天津                  |
| 2022/07 | 基于分子非键相互作用能预测共无定形形成, 第十一届中国工业结晶科学与工程技术高端研讨会  | 海南海口                |
| 2022/08 | 基于分子间非键相互作用能预测共无定形形成, 第 14 届全球华人化工学者研讨会优秀博士生论坛   | 广东广州                |
| 2023/09 | Oral presentation on Drug Research Academy summer school 2023 of the graduate program in pharmaceutical sciences | Copenhagen, Denmark |
| 2023/09 | Oral presentation on 17th Annual Meeting of the Pharmaceutical Solid-State Research Cluster (PSSRC)              | Cambridge, UK       |
| 2024/07 | 第八届大连理工大学国际青年学者论坛  | 辽宁大连                |

## 个人

语言: 英语 (专业工作水平), 普通话 (母语), 粤语 (母语)

计算机软件: Skilled in Microsoft OFFICE, ORIGIN, EndNote, etc.

计算化学软件: CHEMDRAW, SPSS, Mercury, Multiwfn, Molecular Operation Environment, CrystalExplorer, Material Studio, Gaussian, COSMOtherm, GROMACS, etc. Density Functional Theory calculations and molecular dynamics)

实验技能: XRPD, FTIR, Raman, DSC, TGA, HNMR, UV, Dissolution, SEM, HPLC, etc.

推荐人: Thomas Rades (thomas.rades@sund.ku.dk), Yanbin Jiang (cebjiang@scut.edu.cn), Mingshi Yang (mingshi.yang@sund.ku.dk), Aviva Chow (asfchow@hku.hk)

## 荣誉奖励

- |      |                                     |
|------|-------------------------------------|
| 2018 | 国家奖学金                               |
| 2019 | 国际数学建模大赛优秀奖获得者 (Meritorious Winner) |
| 2022 | 华南理工大学校长奖学金                         |
| 2023 | 华南理工大学五粮液奖学金                        |