

	基本信息	
	姓名	吕成
	职称	副研究员
	学历/学位	研究生/博士
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个人简介

The most complex and thus, in my opinion, physically most interesting soft matter systems are of biological nature. Due to their especially high complexity almost all studies of such systems require numerical approaches. I use molecular dynamics (MD) simulations which allow to investigate bio-mimetic systems consisting of several ten thousands of atoms on microsecond timescales in (near) atomic detail depending on the model.

My research shall focus on:

- 1) Molecular Dynamics Explorations of Bio-catalytic Evolution in Enzyme;
- 2) Computational Design of novel structure with applications.

学习工作经历（自本科填起）

2004.09-2008.06 滨州学院，物理学学士
 2008.09-2011.06 中国石油大学（华东），材料学硕士
 2011.07-2016.01 弗莱堡大学，生物物理学博士
 2016.06-至今 江南大学，生物工程学院，副研究员

主要代表性成果：

一、论文（论著）发表情况

目前已发表学术论文14余篇，其中以第一作者身份发表学术论文6篇，被引用超300次：

1. Hongning Zhenga, Cheng Lu, Jun Lan, Shilong Fan, Vikas Nanda, and Fei Xua. How electrostatic networks modulate specificity and stability of collagen. *Proceedings of the National Academy of Sciences*, 2018: 201802171.
2. Lu, Cheng and Knecht, Volker and Stock, Gerhard. Mechanisms for Allosteric Activation of a Protease by Ligand Binding and Oligomerization as Revealed from Molecular Dynamics Simulations. *Proteins Structure Function and Bioinformatics* 84, 2016.
3. Lu, Cheng and Knecht, Volker and Stock, Gerhard. Long-range conformational response of a PDZ domain to ligand binding and release: a molecular dynamics study, *Journal of Chemical Theory and Computation* 12, 2016.
4. Lu, Cheng and Prada-Gracia, Diego and Rao, Francesco. Structure and dynamics of water in crowded environments slows down peptide conformational changes, *Journal of Chemical Physics* 141, 2014.
5. Lv, Cheng and Xue, Qingzhong and Shan, Meixia and Jing, Nuannuan and Ling, Cuicui and Zhou, Xiaoyan and Jiao, Zhiyong and Xing, Wei and Yan, Zifeng. Selfassembly of double helical nanostructures inside carbon nanotubes, *Nanoscale*, 5, 2013.

二、专利情况

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三、承担教学科研项目情况

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| <ol style="list-style-type: none">1、主持国家自然科学基金青年项目：外膜蛋白诱导下蛋白剪切酶DegS的别构激活机制研究（2018.1-2020.12）；2、2017年，江苏省“双创博士”。 |
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四、获奖情况（含指导学生获奖）

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以上资料更新时间截止：2018年8月

























