



## 张建国个人简历

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### 教育经历:

2006.9 ~ 2011.7: 中国科学院化学研究所，高分子化学与物理，理学博士

2002.9 ~ 2006.7: 华侨大学，材料科学与工程学院，材料科学与工程，工学学士

### 工作经历:

2018.4 ~ 至今: 广州大学，化学化工学院，副教授

2015.11 ~ 2018.3: 德国马普高分子研究所，博士后

2011.8 ~ 2015.10: 德国达姆施塔特工业大学, 博士后

科研方向:

计算模拟、液滴蒸发动力学、表面与界面物理化学、软物质材料多尺度理论模型的构建

科研项目:

国家自然科学基金青年项目, 蒸发诱导高分子共混物溶液形成分层结构的计算机模拟研究, 2019/01 - 2021/12, 25万元, 在研, 主持

代表性论文:

1. **Zhang, Jianguo**; Mukherji, Debashish; Kremer, Kurt<sup>\*</sup>; Daoulas, Kostas Ch.<sup>\*</sup>, Studying polymer solutions with particle-based models linked to classical density functionals: co-non-solvency, *Soft Matter*, 2018,14(45):9282~9295.
2. **Zhang, Jianguo**<sup>\*</sup>; Milzetti, Jasmin; Leroy, Frederic; Mueller-Plathe, Florian, Formation of coffee-stain patterns at the nanoscale: The role of nanoparticle solubility and solvent evaporation rate, *Journal of Chemical Physics*, 2017, 146(11).
3. **Zhang, Jianguo**; Mukherji, Debashish; Daoulas, Kostas Ch.<sup>\*</sup>, Studying PMMA films on silica surfaces with generic microscopic and mesoscale models, *The European Physical Journal - Special Topics*, 2016, 225(8-9): 1423~1440.
4. **Zhang, Jianguo**<sup>\*</sup>; Mueller-Plathe, Florian; Leroy, Frederic<sup>\*</sup>, Pinning of the Contact Line during Evaporation on Heterogeneous Surfaces: Slowdown or Temporary Immobilization? Insights from a Nanoscale Study, *Langmuir*, 2015,31(27): 7544~7552.

5. Leroy, Frederic<sup>\*</sup>; Liu, Shengyuan; **Zhang, Jianguo**, Parametrizing Nonbonded Interactions from Wetting Experiments via the Work of Adhesion: Example of Water on Graphene Surfaces, *Journal of Physical Chemistry C*, 2015, 119(51): 28470~28481.

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7. **Zhang, Jianguo**; Guo, Hongxia<sup>\*</sup>, Transferability of Coarse-Grained Force Field for nCB Liquid Crystal Systems, *Journal of Physical Chemistry B*, 2014, 118(17): 4647~4660.

8. **Zhang, Jianguo**; Leroy, Frederic; Mueller-Plathe, Florian<sup>\*</sup>, Evaporation of Nanodroplets on Heated Substrates: A Molecular Dynamics Simulation Study, *Langmuir*, 2013, 29(31): 9770~9782.

9. **Zhang, Jianguo**<sup>\*</sup>; Mueller-Plathe, Florian; Yahia-Ouahmed, Meziane; Leroy, Frederic, A steady-state non-equilibrium molecular dynamics approach for the study of evaporation processes, *Journal of Chemical Physics*, 2013, 139(13).

10. **Zhang, Jianguo**; Su, Jiaye; Ma, Yanping; Guo, Hongxia<sup>\*</sup>, Coarse-Grained Molecular Dynamics Simulations of the Phase Behavior of the 4-Cyano-4'-pentylbiphenyl Liquid Crystal System, *Journal of Physical Chemistry B*, 2012, 116(7): 2075~2089.

11. **Zhang, Jianguo**; Su, Jiaye; Guo, Hongxia<sup>\*</sup>, An Atomistic Simulation for 4-Cyano-4'-pentylbiphenyl and Its Homologue with a Reoptimized Force Field, *Journal of Physical Chemistry B*, 2011, 115(10): 2214~2227.

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