

Complete list of publications

1. Kaustubh Rane and Nico van der Vegt, **“Using grand canonical Monte Carlo simulations to understand the role of interfacial fluctuations on solvation at the water-vapor interface,”** (to be submitted).
2. Kaustubh Rane and Nico van der Vegt, **“Understanding the influence of capillary waves on solvation at the liquid-vapor interface,”** J. Chem. Phys. 144, 114111 (2016). [link](#)
3. Kaustubh Rane and Jeffrey Errington, **“Understanding the influence of Coulombic interactions on the wetting behavior of ionic liquids,”** J. Chem. Phys. 141, 174706 (2014). [link](#)
4. Kaustubh Rane, Vaibhaw Kumar, Scott Wierzchowski, Majeed Shaik and Jeffrey Errington, **“Liquid-vapor phase behavior of asphaltene-like molecules,”** Ind. Eng. Chem. Res. 53, 17833 (2014). [link](#)
5. Vaibhaw Kumar, Kaustubh Rane, Scott Wierzchowski, Majeed Shaik and Jeffrey Errington, **“Evaluation of the performance of GAFF and CGenFF in the prediction of liquid-vapor saturation properties of naphthalene derivatives,”** Ind. Eng. Chem. Res. 53, 16072 (2014). [link](#)
6. Kaustubh Rane and Jeffrey Errington, **“Saturation properties of 1-alkyl-3-methylimidazolium based ionic liquids,”** J. Phys. Chem. B 118, 8734 (2014). [link](#)

7. Kaustubh Rane and Jeffrey Errington, “**Using Monte Carlo simulations to compute liquid-vapor saturation properties of ionic liquids,**” J. Phys. Chem. B 117, 8018 (2013).

[link](#)

8. Kaustubh Rane, Sabharish Murali and Jeffrey Errington, “**Monte Carlo simulation methods for computing liquid-vapor saturation properties of model systems,**” J. Chem.

Theory Comput. 9, 2552 (2013). [link](#)

9. Kaustubh Rane, Vaibhaw Kumar and Jeffrey Errington, “**Monte Carlo simulation methods for computing the wetting and drying properties of model systems,**” J. Chem.

Phys. 135, 234102 (2011). [link](#)