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## 2022

**Extension of the TraPPE Force Field for Battery Electrolyte Solvents.**

Luo Z, Burrows SA, Smoukov SK, Fan X and Boek ES. *Journal of Physical Chemistry B (Soft Condensed Matter and Biophysical Chemistry)*. American Chemical Society.

**End-to-end system for rapid and sensitive early-detection of SARS-CoV-2 for resourcepoor and field-test environments using a \$51 lab-in-a-backpack.**

Lin EE, Razzaque UA, Burrows SA and Smoukov SK. *Plos One* vol. 17, (1 January). Public Library of Science.

## 2021

**Virtual voids method to generate low-density microporous carbon structures using quenched molecular dynamics simulation.**

Luo Z, Burrows SA, Fan X, Smoukov SK and Boek ES. *Carbon* vol. 183, 438-448.

**Benchmarking of Molecular Dynamics Force Fields for SolidLiquid and SolidSolid Phase Transitions in Alkanes.**

Burrows SA, Korotkin I, Smoukov SK, Boek E and Karabasov S. *The Journal of Physical Chemistry B* vol. 125, (19) 5145-5159. American Chemical Society (Acs).