

Timothy W. Sirk (U.S. Army Research Laboratory)

Bio:

Timothy W. Sirk is a staff scientist in the field of computational materials science at the US Army Research Laboratory (ARL). He began his research career at ARL in 2010 as an ORISE postdoctoral fellow, where he investigated the mechanics and structure-property relationships of polymers at extreme conditions through a variety of particle-based simulation methods, including atomistic molecular dynamics, Monte Carlo, coarse-graining, and dissipative particle dynamics. His current work is focused on developing next-generation polymeric materials for soldier protection. Prior to joining ARL, Tim earned his Ph.D. in 2009 from the Mechanical Engineering department at Virginia Tech, for his work linking the chemical structure of tea antioxidants to anti-bacterial and anti-carcinogenic properties.