

# **Finding Solvents for Low-Dimensional Nanomaterials using the Corresponding Distances Method**

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Low-dimensional nanomaterials such as carbon nanotubes and graphene exhibit most of their unique properties only as individual particles. However, to date no reliable, economical and scalable method has been discovered that can individualize these nanoparticles. I will show why dispersants are insufficient to achieve this for 1D and 2D materials and why thermodynamic solvents are needed. Computer simulations can be used to search for such solvents, but traditional methods are computationally and administratively very expensive. I will show how the Corresponding Distances Method can be used for solvent discovery and why it is an order of magnitude more efficient than available alternatives.