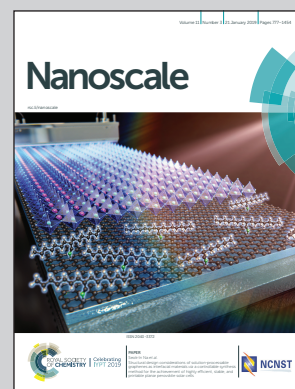


Showcasing research from the Department of Chemical Engineering of the University of Patras and the Institute of Chemical Engineering Sciences, FORTH, GREECE.

3-Arm star pyrene-functional PMMAs for efficient exfoliation of graphite in chloroform: fabrication of graphene-reinforced fibrous veils

Tailor-made, pyrene-functionalized star PMMAs were designed as dispersing agents for the liquid phase exfoliation of graphite. Stable few-layered graphene sheets were achieved in chloroform, with very low polymer/graphite mass ratio. Atomistic Molecular Dynamics simulations provided insights into the exfoliation mechanism. The $G@(PMMA-Py)_3$ hybrids were used to fabricate graphene-reinforced PMMA fibrous veils.

As featured in:



See Constantinos Tsitsilianis *et al.*, *Nanoscale*, 2019, 11, 915.