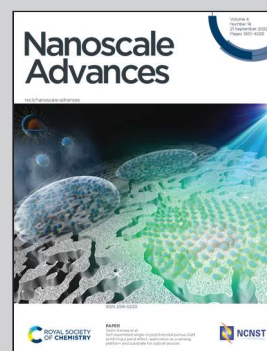


Showcasing research from Professor Akiyoshi's laboratory, Graduate School of Engineering, Kyoto University, Kyoto, Japan.

Glycopeptoid nanospheres: glycosylation-induced coacervation of poly(sarcosine)

We report that the conjugation of maltopentaose to water-soluble homo-poly(sarcosine) induced self-association (non-ionic coacervation) and enabled formation of monodisperse nanospheres (nanometer-scale droplets) in water, although homo-poly(sarcosine) did not form any aggregates. The glycopeptoid nanosphere with both hydrophobic and hydrophilic domain inside is interesting for potential application as a new type of nanocarrier for drug delivery system.

As featured in:



See Kazunari Akiyoshi *et al.*, *Nanoscale Adv.*, 2022, **4**, 3707.