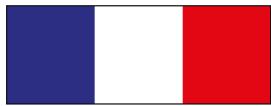


French - German opportunities of cooperation to face the European revolution in neutron science



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Structural investigation on PTX-loaded poly(2-oxazoline) molecular brushes

Wednesday 15 May 2019 21:40 (20 minutes)

Poly(2-alkyl-2-oxazoline) molecular brushes, featuring PMeOx-b-PBuOx side arms, are investigated in aqueous solution. While hydrophobic PBuOx is attached to the backbone, storing the anticancer drug, Paclitaxel, the hydrophilic PMeOx is at the periphery, facilitating transport in water. With small-angle neutron scattering, the structure of the PTX-loaded molecular brushes with different backbone length was revealed, disclosing the effect of the molecular architecture on the drug-loading ability.

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