

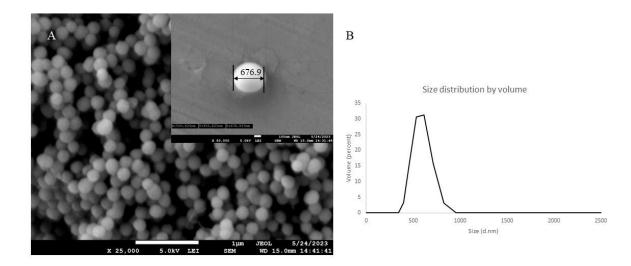
Supplementary Material

PMO	Particle size* (by volume)/nm	Polydispersity index (PDI)
PMO-OH (SS4)	495±131.9	0.12±0.39
AVPI@PMO (SS36)	650±395	0.51±0.19
c[RGDfK]@PMO (SS28)	900±395	0.45±0.19
DTP@PMO (SS35)	725±395	0.82±0.19

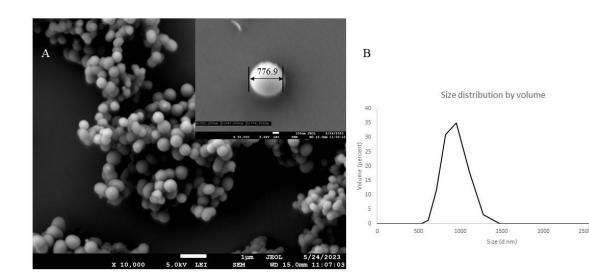
^{*}Data expressed as mean \pm standard deviation (n = 3).

Supplementary Table S1 Summary of hydrodynamic size distribution by volume (20°C) of samples used in this work.

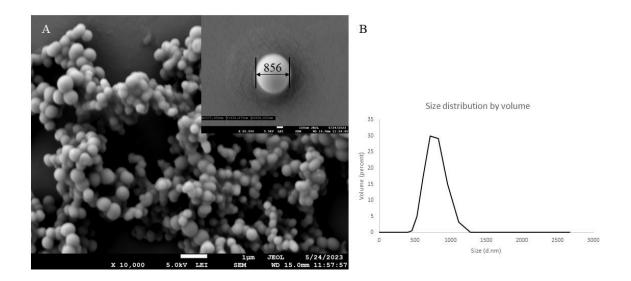
Supplementary Figure S1 SEM images of the AVPI@PMO (**SS36**) at 25k of magnification and inset at 50k of magnification (**A**) and hydrodynamic distribution by volume determined by DLS (water, 20°C) (**B**).



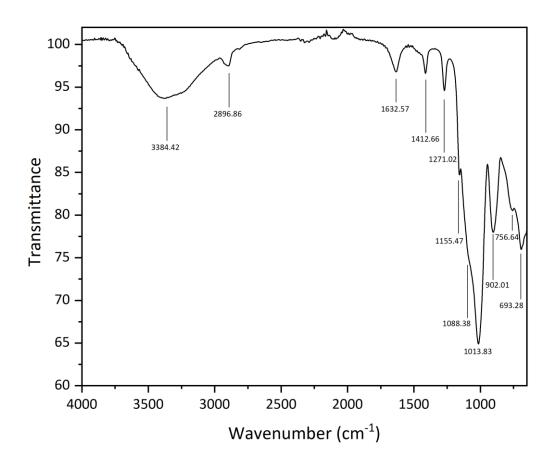
Supplementary Figure S2 SEM images of the c[RGDfK]@PMO (**SS28**) at 10k of magnification and inset at 50k of magnification (**A**) and hydrodynamic distribution by volume determined by DLS (water, 20°C) (**B**)



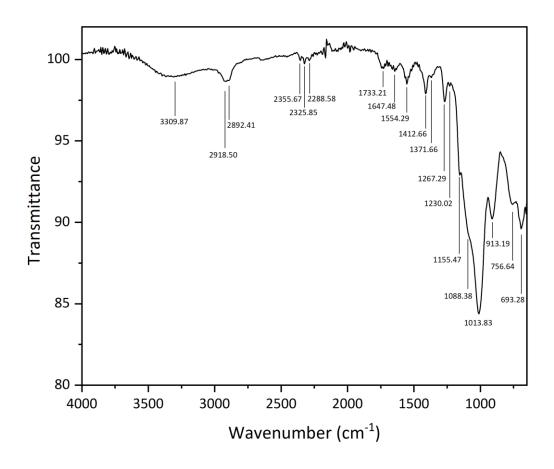
Supplementary Figure S3 SEM images of the AVPI-c[RGDfK]@PMO (DTP@PMO) (**SS35**) at 10k of magnification and inset at 50k of magnification (**A**) and hydrodynamic distribution by volume determined by DLS (water, 20°C) (**B**)



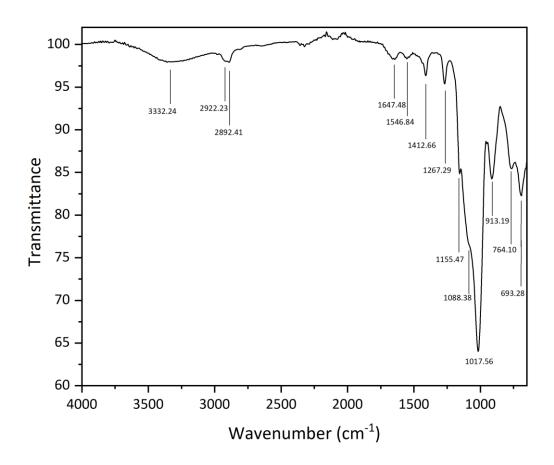
Supplementary Figure S4 IR-spectrum of PMO-OH (**SS4**) were measured within the wavenumber range of to 650 cm⁻¹.



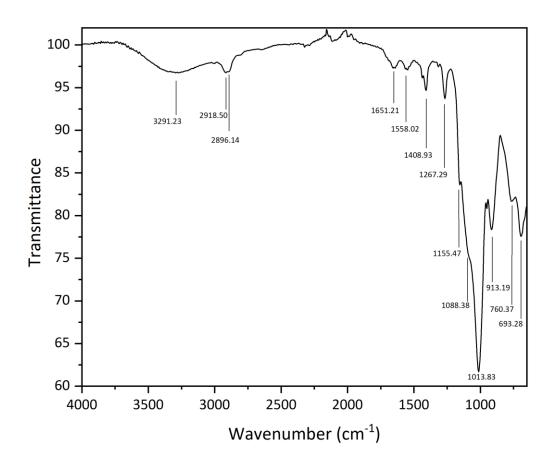
Supplementary Figure S5 IR-spectrum of ICPTES@PMO (**SS14**) were measured within the wavenumber range of 4000 to 650 cm⁻¹.



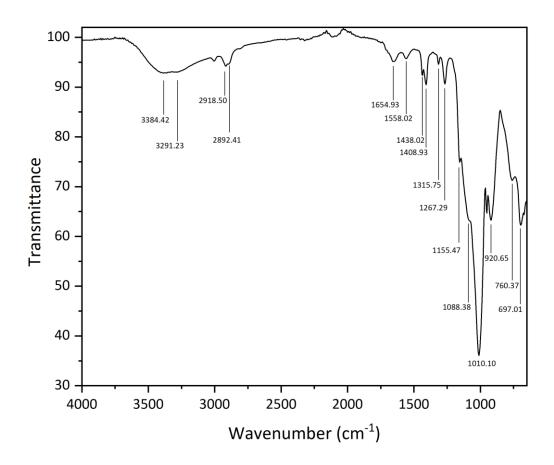
Supplementary Figure S6 IR-spectrum of c[RGDfK]@PMO (SS28) were measured within the wavenumber range of 4000 to 650 cm⁻¹.



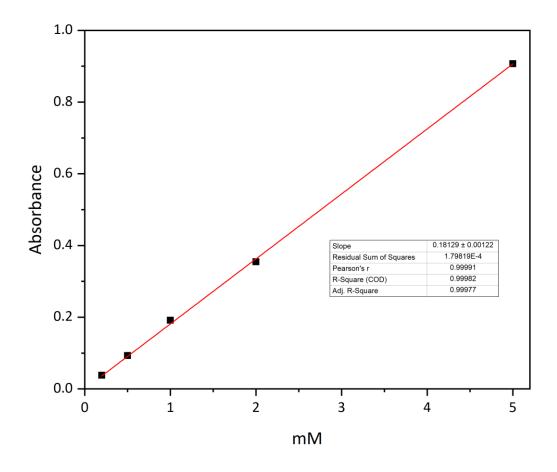
Supplementary Figure S7 IR-spectrum of AVPI-c[RGDfK]@PMO (DTP@PMO) (**SS35**) were measured within the wavenumber range of to 650 cm⁻¹.



Supplementary Figure S8 IR-spectrum of AVPI@PMO (SS36) were measured within the wavenumber range of 4000 to 650 cm⁻¹.



Supplementary Figure S9 Calibration curve of Phenylalanine (λ_{ex} 240nm, λ_{em} 282nm)



Supplementary Figure S10 Calibration curve of Fmoc-Alanine (λ_{ex} 397nm, λ_{em} 280nm)

