

Haemolytic activity and cellular toxicity of SBA-15-type silicas: Elucidating the role of the mesostructure, the surface functionality and the linker length

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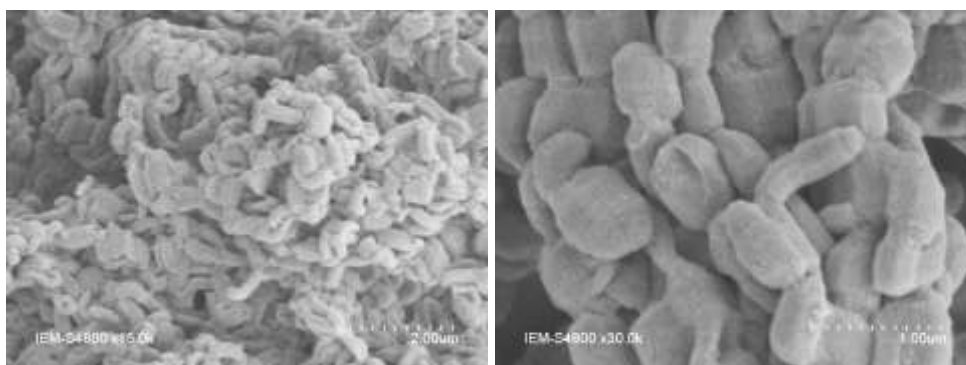
S1: SEM of functional silicates.

S2: Haemolytic activity of silica nanoparticles: α -SiO₂, SBA-15, SBA-SH, SBA-NH₂ and SBA-COOH.

S3: Haemoglobin adsorption studies.

S4: Haemolysis of functional silicates in absence and presence of HAS (t = 2h).

S1: SEM of functional silicates.

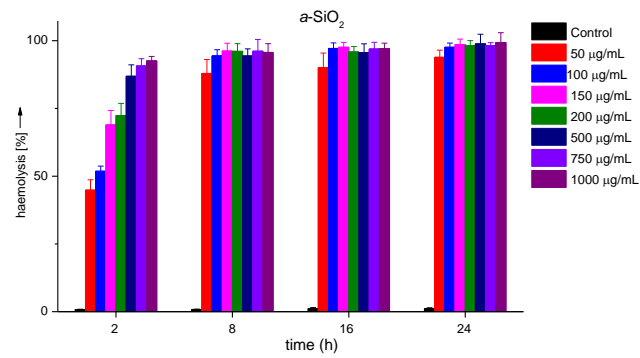


SEM photos of **SBA-NH₂** [(scale bare left = 2 μm); (scale bare right: 1 μm)].

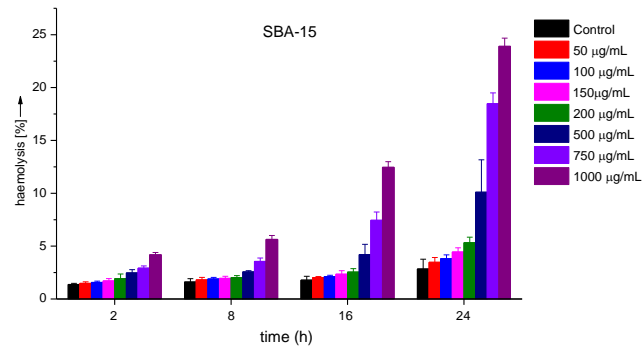


SEM photos of **SBA-SH** (scale bare =1 μm). Both of them showing the typical rod-like morphology of SBA-15-type materials.

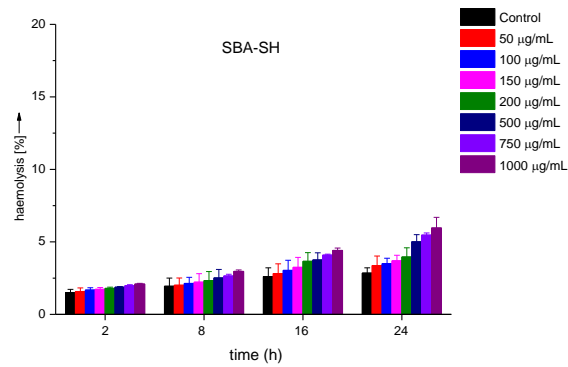
S2: Haemolytic activity of silica nanoparticles: α -SiO₂, SBA-15, SBA-SH, SBA-NH₂ and SBA-COOH.



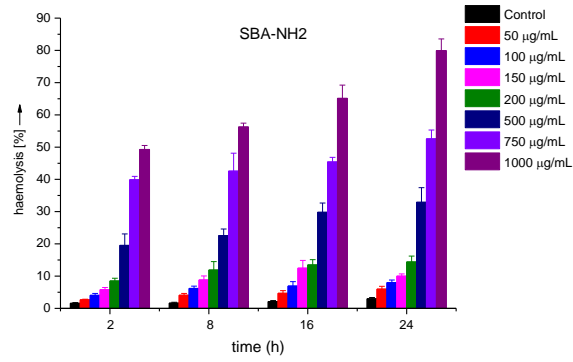
Haemolytic activity of α -SiO₂



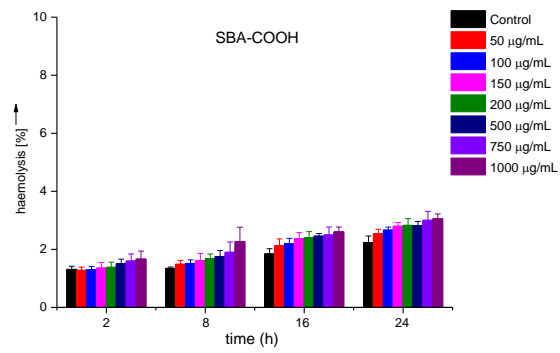
Haemolytic activity of SBA-15



Haemolytic activity of SBA-SH



Haemolytic activity of SBA-NH₂



Haemolytic activity of SBA-COOH

S3: Haemoglobin adsorption studies.

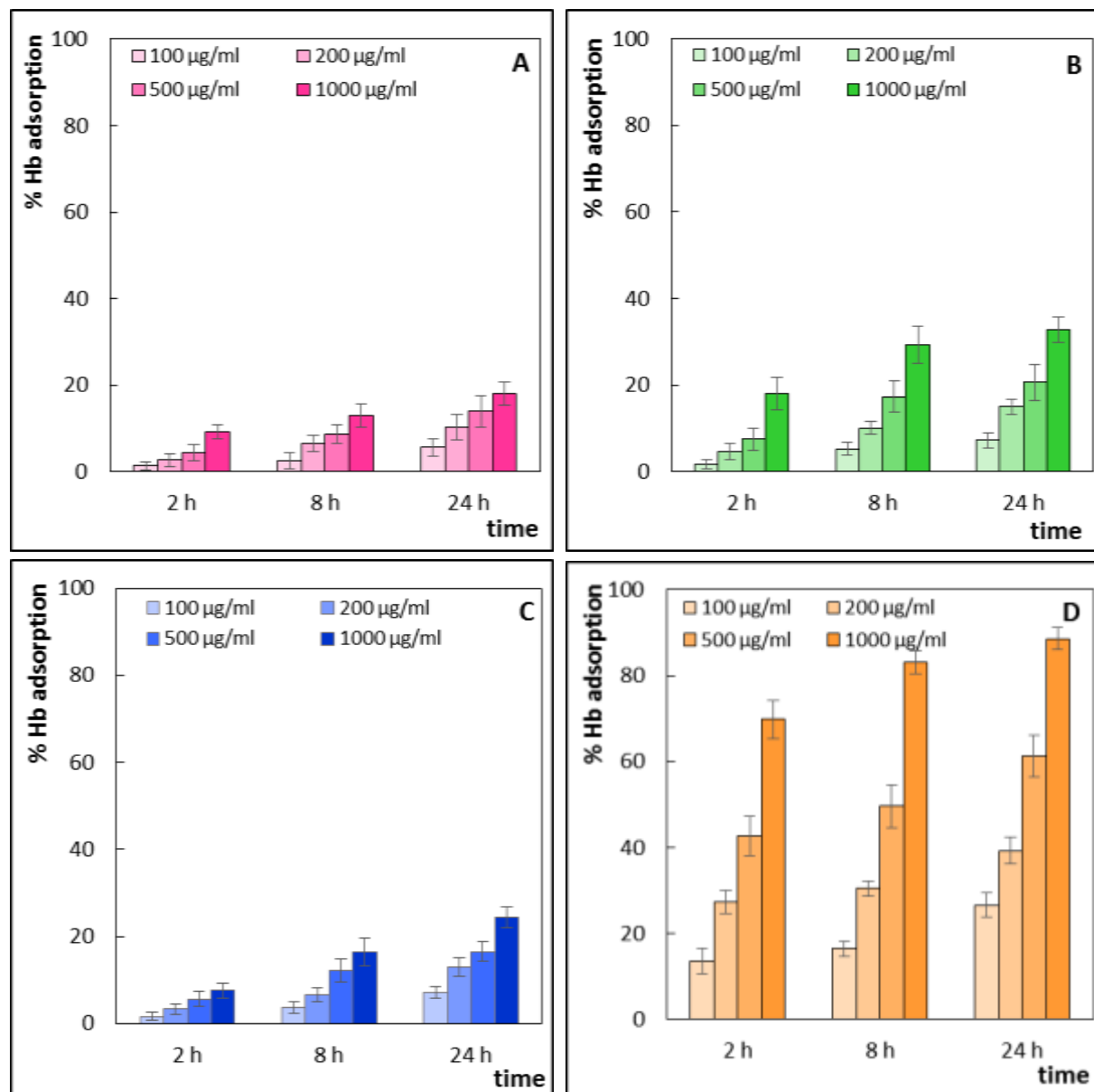


Figure 1. The percentage of haemoglobin adsorption by silica nanoparticles: SBA-15 (A), SBA-SH (B), SBA-NH₂ (C) and SBA-COOH (D).

S4: Hemolysis of functional silicates in absence and presence of HAS (t = 2h).

