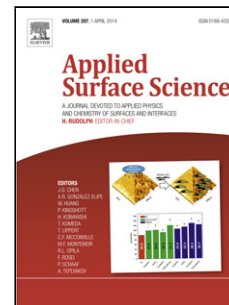


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Title: Electrophoretic deposition of tetracycline modified silk fibroin coatings for functionalization of titanium surfaces

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Highlights

Silk fibroin was decorated with tetracycline in aqueous solution to impart positive charge

Cationic silk fibroin was deposited on titanium substrate as cathode via electrophoretic deposition.

Osteoblast-like cells achieved acceptable cell affinity on the cationic silk fibroin coatings.

Tetracycline was responsible for the antibacterial activity of cationic silk fibroin coatings.

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