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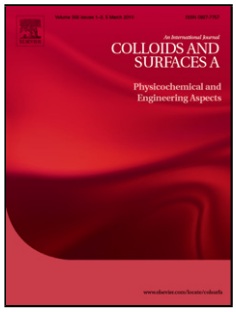

Title: Self-assembly of cysteine-functionalized silver nanoparticles at solid/liquid interfaces

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ACCEPTED MANUSCRIPT

Self-assembly of cysteine-functionalized silver nanoparticles at solid/ liquid interfaces

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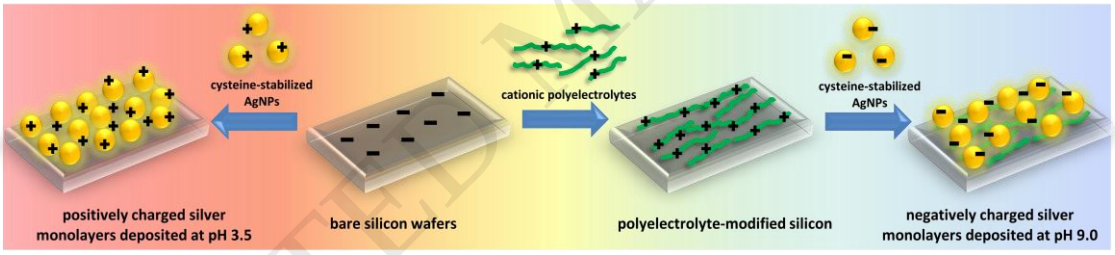
GRAPHICAL ABSTRACT



Highlights

- Thorough physicochemical characteristics of cysteine-stabilized silver nanoparticles were carried out
- Deposition of cysteine-capped nanoparticles on negatively and positively charged surfaces was studied
- Formation of silver nanoparticle monolayers of controlled coverage and structure in self-assembly processes was determined
- Optical properties of cysteine-stabilized nanoparticles and their monolayers deposited on silicon surfaces were evaluated

ABSTRACT

Cysteine-functionalized silver nanoparticles (AgNPs) of an average size of 20±5 nm, applied in the studies, were synthesized in a chemical reduction method. Dynamic light scattering

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