Real-time study of biomolecular coatings using one-dimensional photonic crystal based biosensors

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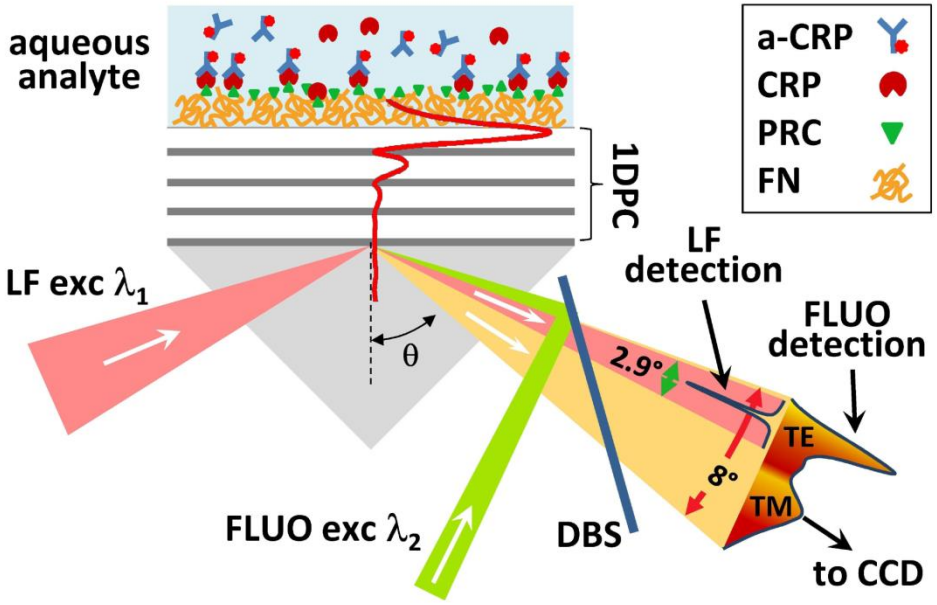
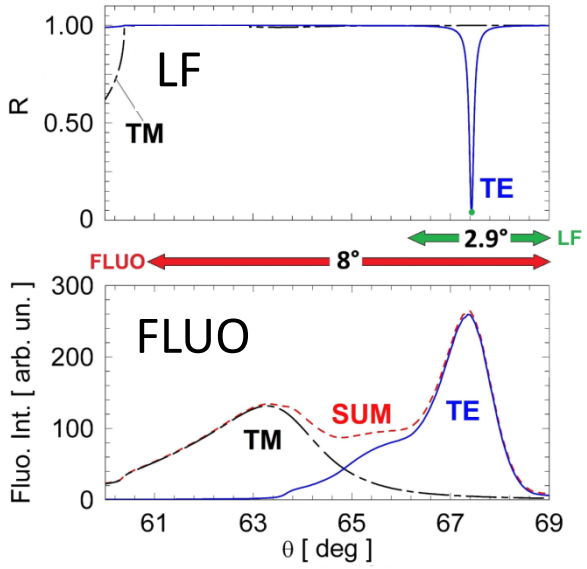
Concept





Read-out system

BLOCH ELECTROMAGNETIC SURFACE WAVE BIOSENSORS FOR EARLY CANCER DIAGNOSIS

SEVENTH FRAMEWORK PROGRAMME

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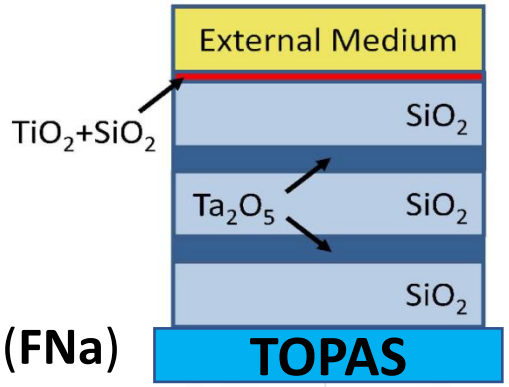
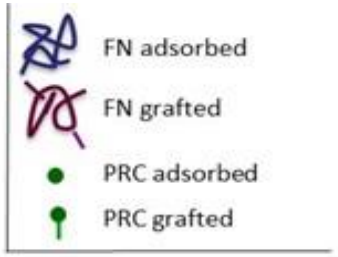
Binary coating combinations

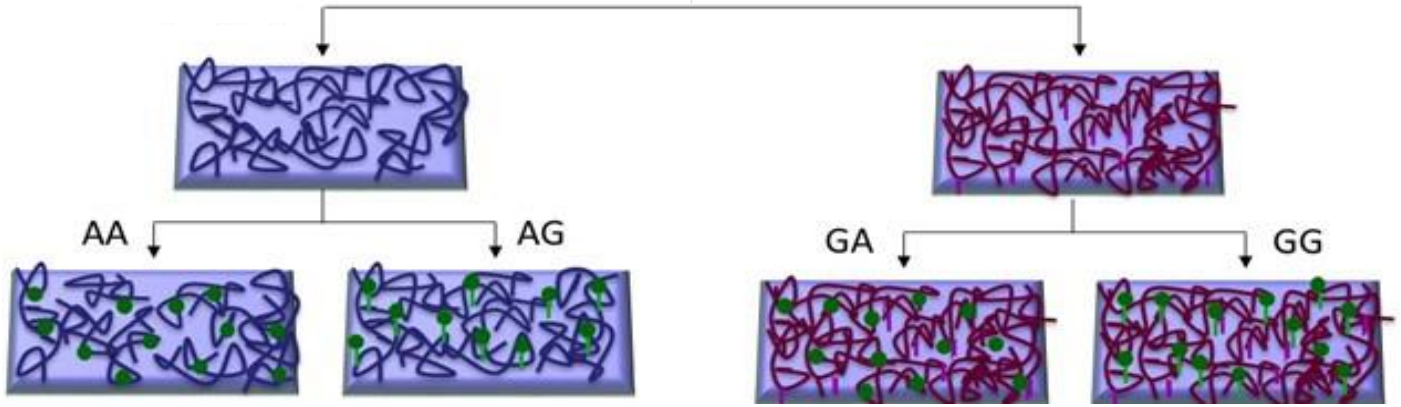
A = Adsorption
G = Grafting



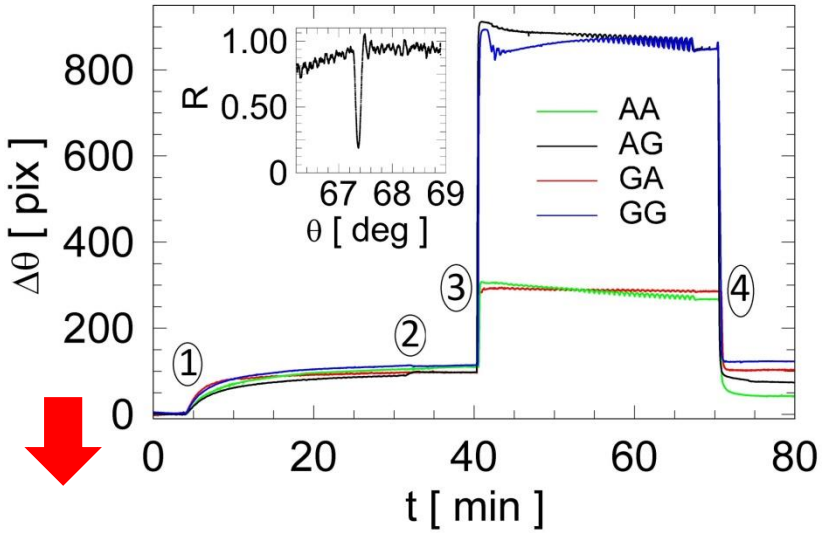


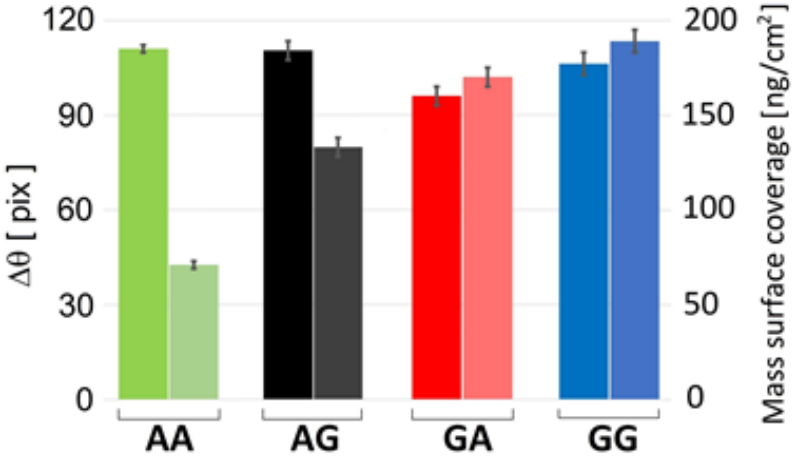
FN adsorption (**FNa**)

FN grafting (**FNg**)



LF Results





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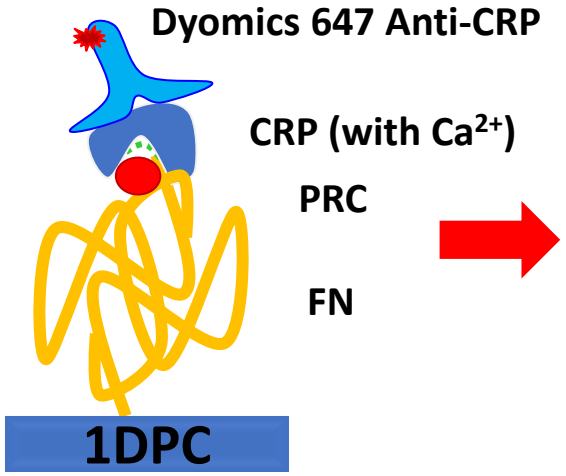
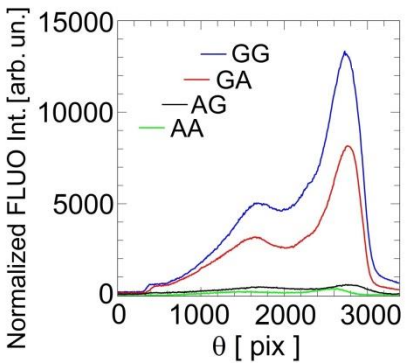
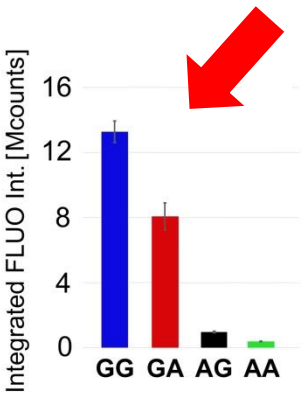
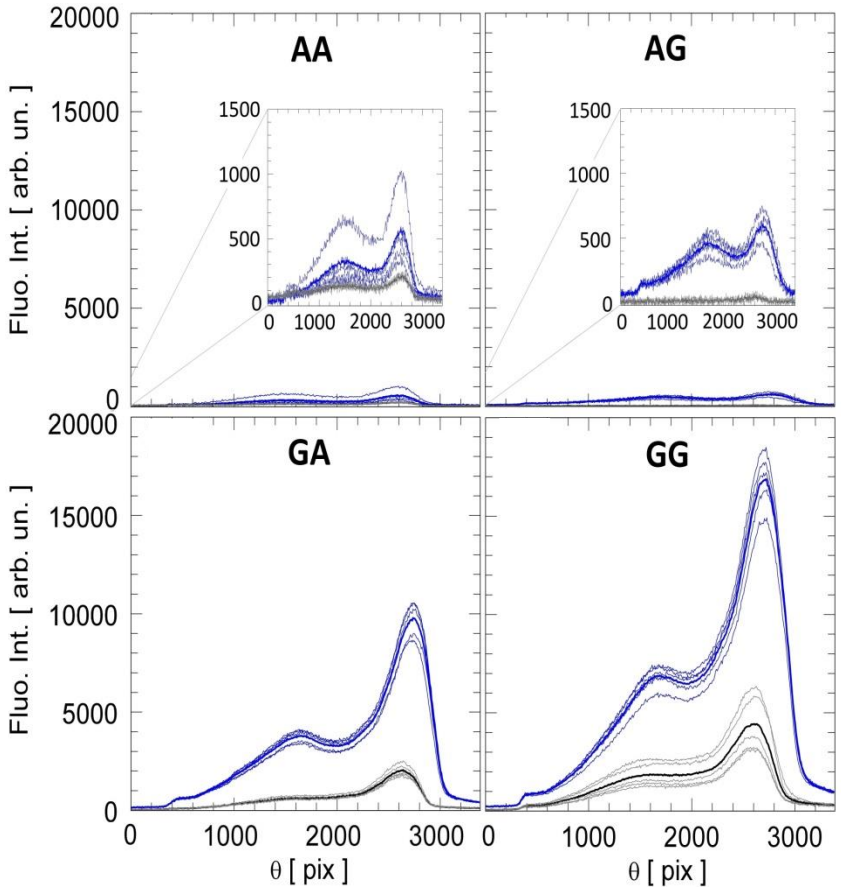
FLUO Results

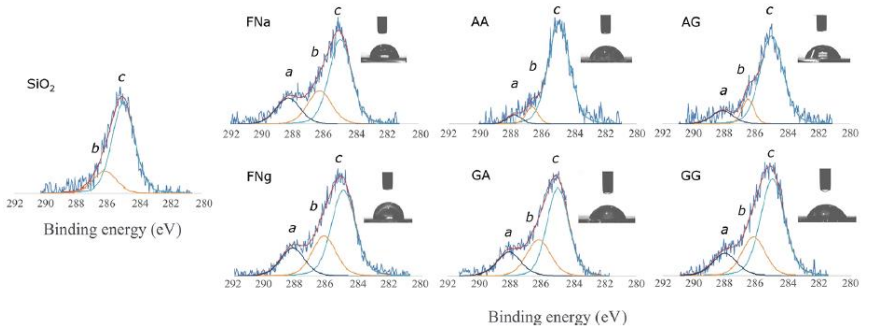








OCA and XPS Results



Conclusions

- Combined LF and FLUO approach for the quantification of FN and PRC molecules in binary coatings combining adsorption and grafting processes

References

A. Sinibaldi et al., *ACS Appl. Mater. Interfaces* 2018, 10, 39, 33611–18

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