

Supplementary Material

Design of halochromic cellulosic materials and smart textiles for continuous wearable optical monitoring of epidermal pH

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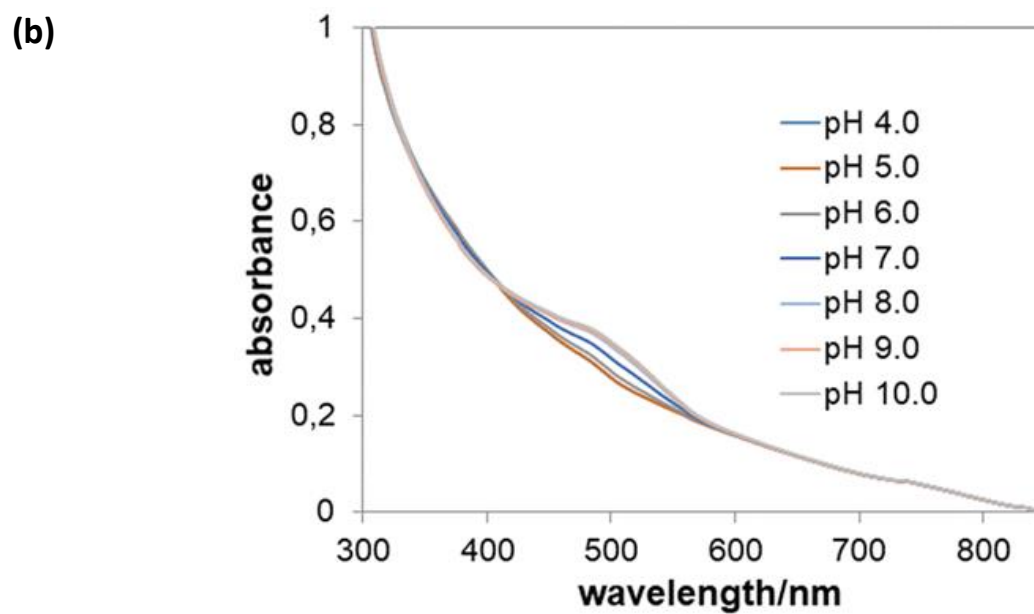
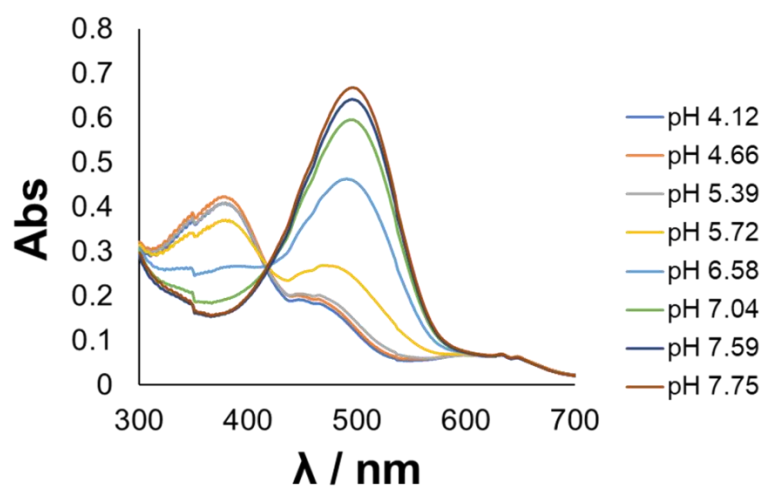
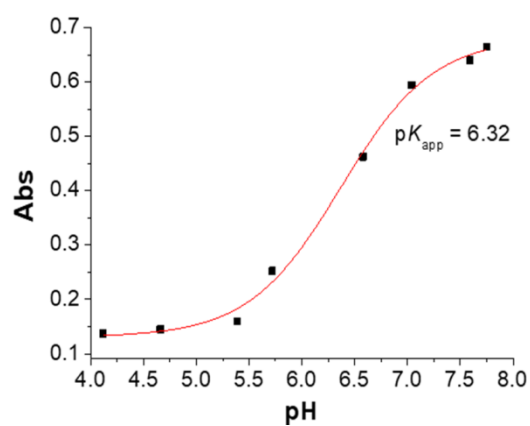


Fig. S1 Visual (a), and UV-Vis absorbance spectral changes (b), of functionalised nanocellulose NC-1 dispersed in buffer solutions of different pH values

(a)



(b)



(c)

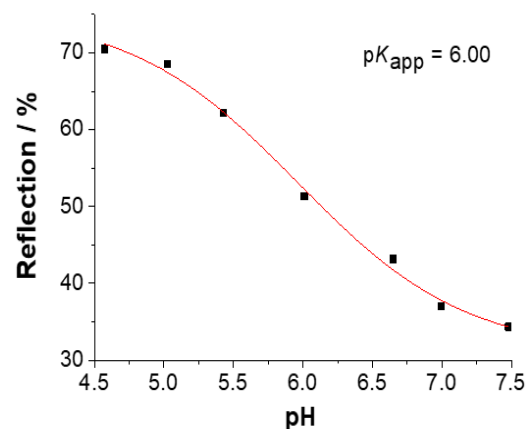


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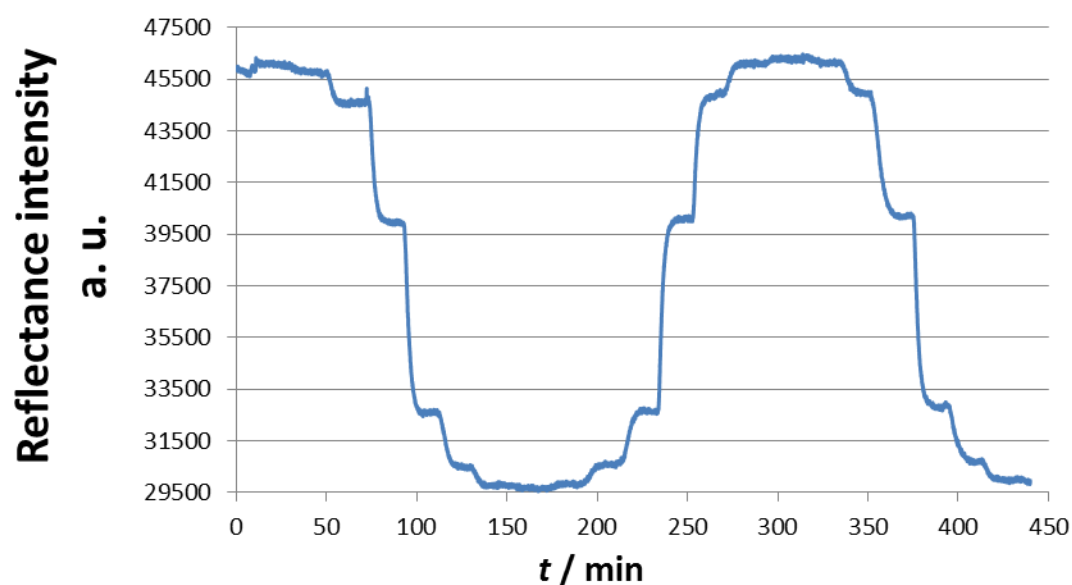


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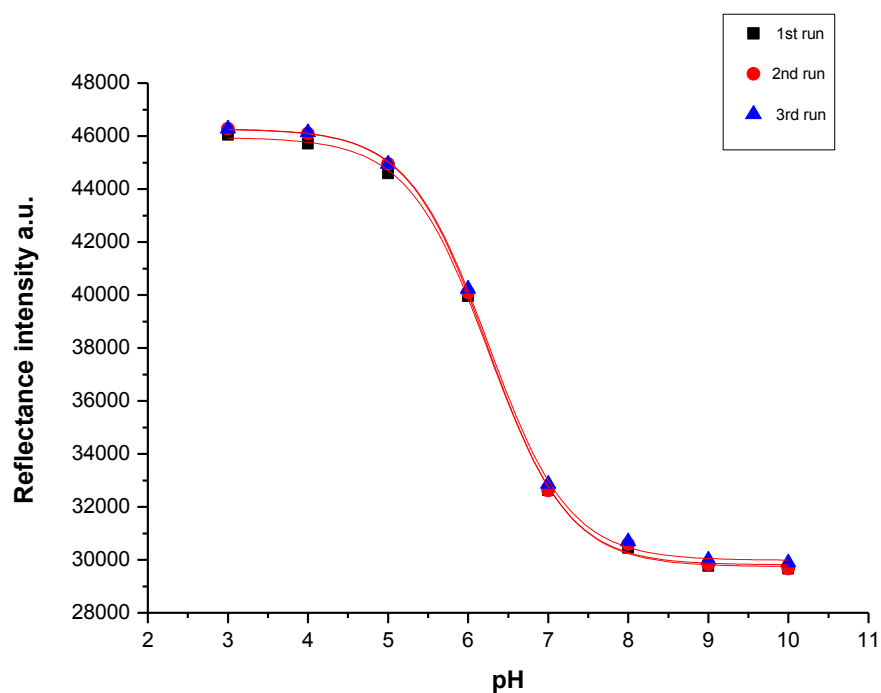


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Table S1. Precision (standard deviation) and accuracy (error) of the wearable sensor in pH units, $n = 6$

pH meter	pH with wearable sensor	precision	accuracy
5.26	5.34	0.03	0.08
5.43	5.43	0.03	0
5.63	5.45	0.05	-0.18
5.79	5.61	0.03	-0.18
6.20	6.11	0.04	-0.09
6.45	6.41	0.02	-0.04
6.60	6.59	0.02	-0.01
6.87	6.77	0.02	-0.10