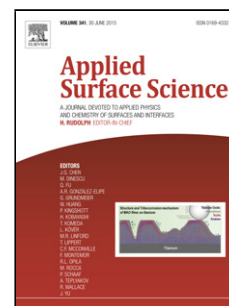


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Author: Wenzhi Zhang Wenxing Ju Xinming Wu Yan Wang Qiguan Wang Hongwei Zhou Sumin Wang Chenglong Hu



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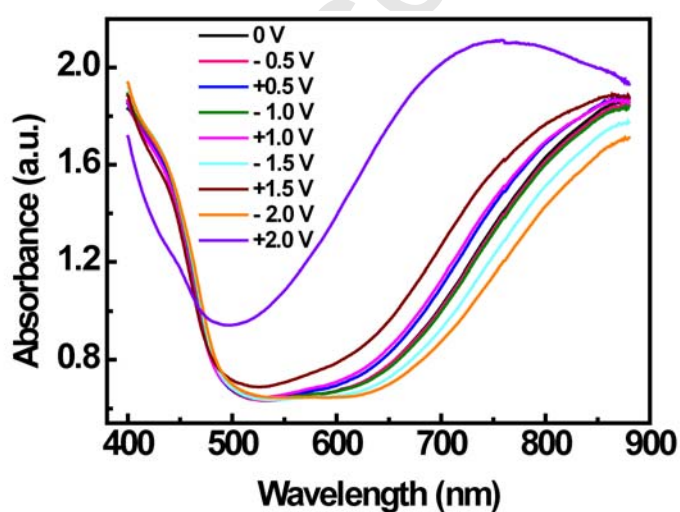
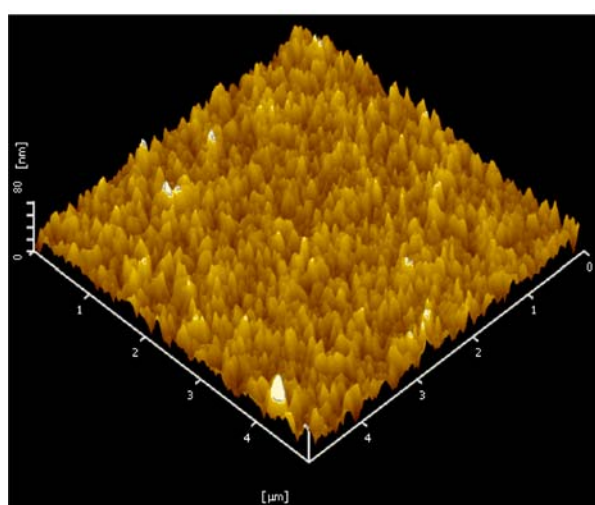
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Highlights:

1. The PANI film covalently bonded to ITO substrate was prepared using ABPA as modifier.
2. The oxidative potentials of the obtained PANI film were decreased.
3. The obtained PANI film exhibits high electrochemical activities and stability.

Graphical abstract:

A chemical bonding approach was proposed to prepare the PANI film covalently bonded to ITO substrate and the film exhibited high electrochemical activities and stability compared with that obtained by conventional film-forming approach.

Structure, stability and electrochromic properties of polyaniline film covalently bonded to indium tin oxide substrate

Wenzhi Zhang^{a,*}, Wenxing Ju^a, Xinming Wu^a, Yan Wang^a, Qiguan Wang^a, Hongwei Zhou^a, Sumin Wang^a, Chenglong Hu^b

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