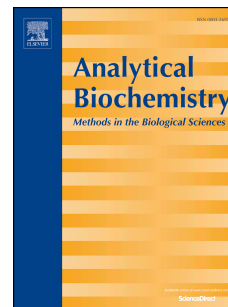


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Design of titanium nitride- and wolfram carbide-doped RGO/GC electrodes for determination of gallic acid

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1Design of titanium nitride- and wolfram carbide-doped RGO/GC electrodes for
2determination of gallic acid

3Short title: Modified electrodes for detection of gallic acid

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19**Abstract:**

20

21In the present paper, the electrochemical behavior and the properties of two modified glassy
22carbon (GC) electrodes used for quantification of gallic acid in sweet wines were compared. A
23comparative study was conducted between titanium nitride- or wolfram carbide-doped reduced
24graphene oxide, labeled as TNrGO and WCrGO, respectively, modified GC electrodes, which are
25promising composite nanomaterials for electroanalytical applications. For the first time, WCrGO
26was synthesized and its electroanalytical properties compared with those of TNrGO. Results

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