Electrochemical Behavior of Iodine on Nano Gold Doped in H₂TiO₃

Y. Z. Song*, X. L. Yuan, M.J.Yang, J.J. Ding, W.J. Lu, X.L.Hang

School of Chemistry & Chemical Engineering, Huaiyin Normal University, Jiangsu Province Key Laboratory for Chemistry of Low-Dimensional Materials, Huai An 223300, People’s Republic of China

*E-mail: songyuanzhi@126.com; songyuanzhi@sina.com

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In this paper the nano gold doped in H₂TiO₃ were prepared, and the electrochemical catalysis for iodine at the modified electrode was studied. It was demonstrated that when the pH is less than 9, the I⁻ at the modified electrode can be oxidized to be I₂ and then IO₃⁻, and the reduction peaks of I₂ and IO₃⁻ at the modified electrode were also found; when the pH is more than 9, the I⁻ is oxidized to be IO₃⁻ directly, and the reduction product of IO₃⁻ at the modified electrode is I⁻.

Keywords: nano gold, H₂TiO₃, iodine, catalysis

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