Electrochemical Behavior of Iodine on Nano Gold Doped in H_2TiO_3

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 H_2TiO_3 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 I_2 and then IO_3^- , and the reduction peaks of I_2 and IO_3^- at the modified electrode were also found; when the pH is more than 9, the I^- is oxidized to be IO_3^- directly, and the reduction product of IO_3^- at the modified electrode is I^- .

Keywords: nano gold, H_2TiO_3 , iodine, catalysis

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