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In situ construction of N/Ti^{3+} codoped triphasic TiO_2 layer on TiO_2 nanotube arrays to improve photoelectrochemical performance

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Graphical Abstract

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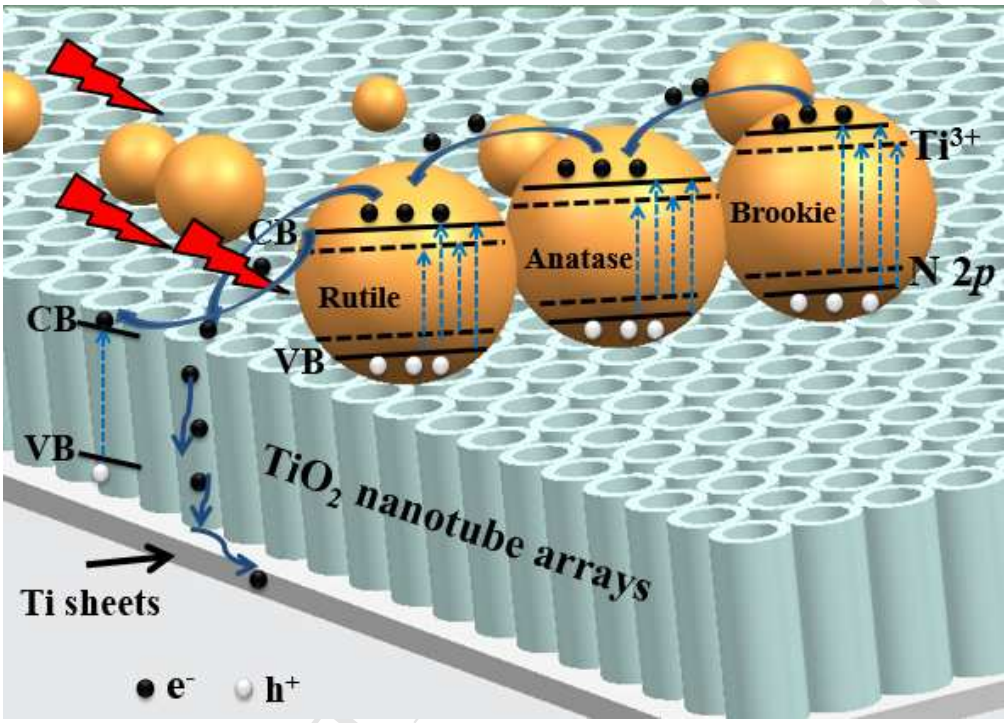

In situ growth of N/Ti^{3+} codoped triphasic TiO_2 layer on TiO_2 nanotube arrays to construct homojuncions is achieved *via* hydrothermal reaction of TiN and TiO_2 nanotube arrays and better photo-electrochemical performance is demonstrated.