

عنوان مقاله:

An overview on g-C₃N₄ based nanostructured materials as electrocatalyst substances

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خلاصه مقاله:

Graphitic carbon nitride (g-C₃N₄) has emerged as one of the most promising nanomaterials due to its metal-free nature, abundant raw material, and thermal physical-chemical stability. In recent years, breakthrough research studies have mostly been concentrated on the engineering of the intrinsic and morphological properties of g-C₃N₄-based photocatalysts in the framework of powder suspensions for artificial photosynthesis and environmental remediation. However, g-C₃N₄-based electrodes and devices' practical applications are still in the early stages of development due to challenging fabrication methods of g-C₃N₄ thin films. This review addresses the classification of various g-C₃N₄-based electrocatalysts. Lastly, further suggestions are posited for other potential applications, challenges, and future orientations.

کلمات کلیدی:

C₃N₄, Electrocatalyst, Nanomaterials-

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