

What is graphitic carbon nitride

Among various photocatalysts, graphitic carbon nitride (g-C₃N₄) has garnered significant attention due to its visible light responsiveness and tunable electronic structure. However, its ...

Despite being one of the oldest materials described in the chemical literature, graphitic carbon nitride (g-C₃N₄) has just recently experienced a renaissance as a highly ...

Among these, graphitic carbon nitride (g-C₃N₅) has garnered significant attention due to its nitrogen-rich structure, extended π -conjugation, and tunable bandgap. Its abundant raw ...

Corrigendum Corrigendum to "Critical role of the heterojunction interface of silver decorated ZnO nanocomposite with sulfurized graphitic carbon nitride heterostructure materials for ...

"Photo-activated piezoelectric-catalyzed hydrogen peroxide production in pure water by carbon-modified graphitic carbon nitride" (Chemical Engineering ...

Graphitic carbon nitride has emerged as a promising metal-free semiconductor material with remarkable electrochemical properties suitable for various applications, particularly in sensing, ...

Among these, graphitic carbon nitride (g-C₃N₄) has emerged as a promising visible-light-driven photocatalyst [16], [17]. It possesses a moderate bandgap (~2.7 eV), enabling visible light ...

In this study, boron-doped graphitic carbon nitride (BCN) was successfully prepared via thermal copolymerization of dicyandiamide and boric acid. The structural and morphological features of ...

High-polycondensation and porous carbon nitride nanosheets for highly efficient photocatalytic hydro... Triple templating of graphitic carbon nitride to enhance photocatalytic properties ...

Graphitic carbon nitride nanosheets: one-step, high-yield synthesis and application for Cu²⁺ detectio... Different strategies to improve photocatalytic activity of graphitic carbon nitride ...

Graphitic carbon nitride (g-C₃N₄) has demonstrated potential applications in addressing energy shortages and preserving water ecosystem stability due to its high efficiency in degrading ...

Carbon nanotube (CNT)-based sensors, offering high surface area and conductivity, often lack sufficient selectivity for specific gases. To address this limitation, we developed a new method ...

The graphitic carbon nitride (g-C₃N₄) is one of the candidates to be used as a photocatalyst. The g-C₃N₄

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was synthesized by the polycondensation method with a synthesis temperature ...

?? Graphitic carbon nitride (g-C₃N₄) in situ polymerization to synthesize MOF-Co@CNTs as efficient electromagnetic microwave absorption materials ?????(g-C₃N₄)????? ...

Among various materials, graphitic carbon nitride stands out as an extensively investigated material due to ease fabricated and low cost. In this study, sulphur-incorporated graphitic ...

Pristine graphitic carbon nitride (g-C₃N₄) possesses high exciton binding energy and suffers from strong Coulombic force, leading to difficulty in exciton dissociation and severe charge ...

In 2009, a synthetic conjugated polymer referred as graphitic carbon nitride or g-C₃N₄ was first reported for photocatalytic hydrogen production by Wang et al [12]. Since then, g-C₃N₄ has ...

Among these, Graphitic carbon nitride (gCN) has made a niche as a promising 2D material due to its exceptional semiconducting properties, impressive thermal and chemical stability and low ...

Hence, a Type II heterojunction composite material was designed in order to improve the photocatalytic efficiency of graphitic carbon nitride in the field of photocatalytic hydrogen ...

In this research work, the novel Polythiophene-Graphitic carbon nitride (PTh/g-C₃N₄) nanocomposite is reported for the photocatalytic reduction of chromium hexavalent (Cr (VI)). The nanocomposite is synthesized via an in situ ...

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