Graphitic nitrogen

Substituting partial carbon atoms in the carbon skeleton with nitrogen atoms generated nitrogen-containing functional groups (e.g., pyridinic-N, pyrrolic-N, graphitic-N), which significantly ...

Triple templating of graphitic carbon nitride to enhance photocatalytic properties Graphitic Carbon Nitride-based New Advanced Materials for Photocatalytic Applications The MoS2/S-doped ...

The deconvoluted N 1s spectrum shows two o Gaussian peaks located at 399.6 eV (N-H), and 401.6 eV (graphitic N, N- (C)?), suggesting the incorporation of both amino and graphitic ...

4-decorated nitrogen-doped carbon catalysts) with varying ratios of nitrogen doping types, including pyridinic, pyrrolic, and graphitic nitrogen. Both experimental and theoretical results ...

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 ...

Achieving high specific surface area (HSSA) in graphitic carbon nitride (g-C3N4) severely depolymerizes the molecular chain structure, resulting in sluggish carrier kinetic behaviors and ...

It also correlates with an increase in graphitic nitrogen and sp2-conjugated domains. These CDs exhibit excellent biocompatibility and stable fluorescence characteristics, making them ...

???? Graphitic carbon nitride (g-C3N4)-based photocatalytic materials for hydrogen evolution Potassium doped and nitrogen defect modified graphitic carbon nitride for boosted ...

Recently, various g-C 3 N 4 materials with introduced defects have been developed to enhance photocatalytic performance. For example, Yang et al [38] enhanced the photocatalytic ...

In this study, we develop a structurally uniform electrochemical platform with well-defined nitrogen-containing terminal groups, like pyridazine, pyrimidine, pyridine, graphitic nitrogen, ...

A strategy to enhance graphitization and nitrogen doping in metal-free nitrogen-doped carbon (N C) catalysts for alkaline oxygen reduction reaction by coupling hydrogen gas and urea during ...

Density functional theory (DFT) calculations revealed that compared with pyrrolic nitrogen and graphitic nitrogen, pyridinic nitrogen is the most likely site for Co 3 O 4 nanoparticles (NPs) to ...

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