

In Situ Formation of AgCo Stabilized on Graphitic Carbon Nitride and Concomitant Hydrolysis of Ammonia Borane to Hydrogen

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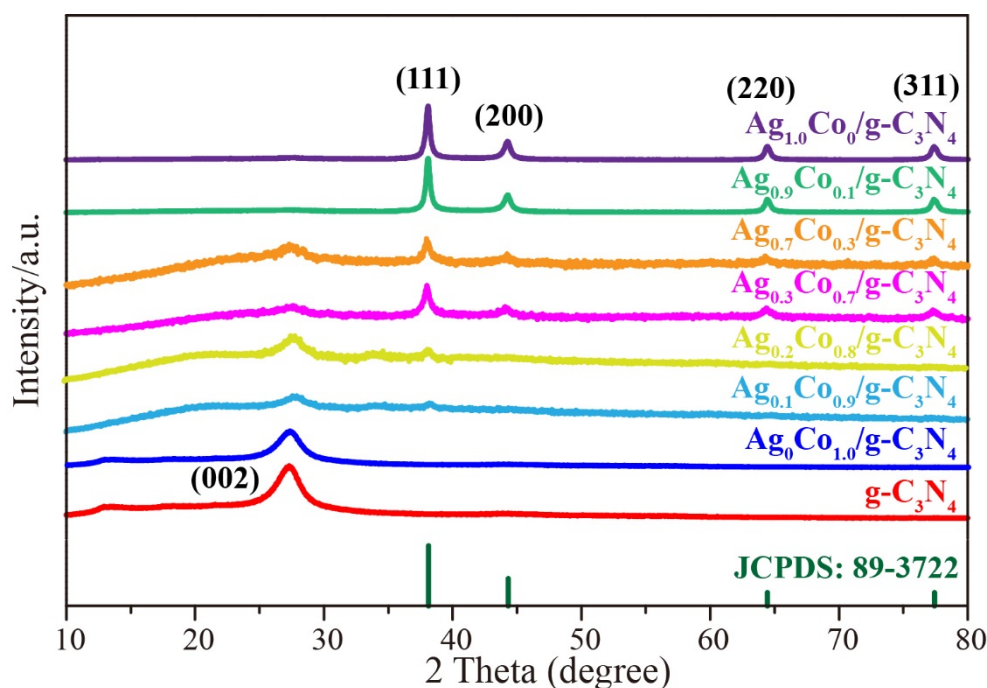


Figure S1. The XRD patterns of the g-C₃N₄ and Ag_xCo_{1-x}/g-C₃N₄.

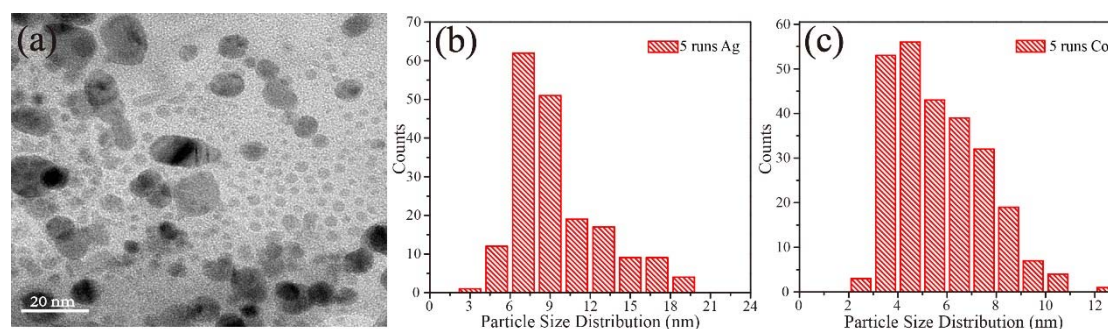


Figure S2. (a) the TEM image of Ag_{0.1}Co_{0.9}/g-C₃N₄ after five recycling runs. (b) Particle size distribution of Ag nanoparticles after 5 recycling runs. (c) Particle size distribution of Co nanoparticles after 5 recycling runs.

Table S1. Ag and Co loadings determined by ICP-OES.

Catalyst	Ag loading	Co loading
Ag ₀ Co _{1.0} /g-C ₃ N ₄	0	21.0%
Ag _{0.1} Co _{0.9} /g-C ₃ N ₄	4.2%	20.1%
Ag _{0.2} Co _{0.8} /g-C ₃ N ₄	8.6%	19.2%
Ag _{0.3} Co _{0.7} /g-C ₃ N ₄	14.2%	18.1%
Ag _{0.7} Co _{0.3} /g-C ₃ N ₄	47.2%	11.1%
Ag _{0.9} Co _{0.1} /g-C ₃ N ₄	58.9%	10.9%
Ag _{1.0} Co ₀ /g-C ₃ N ₄	61.0%	0