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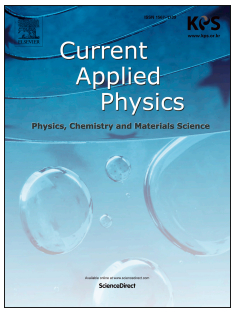

Mechanistic investigations on emission characteristics from g-C_3N_4, g-C_3N_4@Pt and g-C_3N_4@Ag nanostructures using X-ray absorption spectroscopy

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PII: S1567-1739(18)30241-4

DOI: 10.1016/j.cap.2018.08.019

Reference: CAP 4825

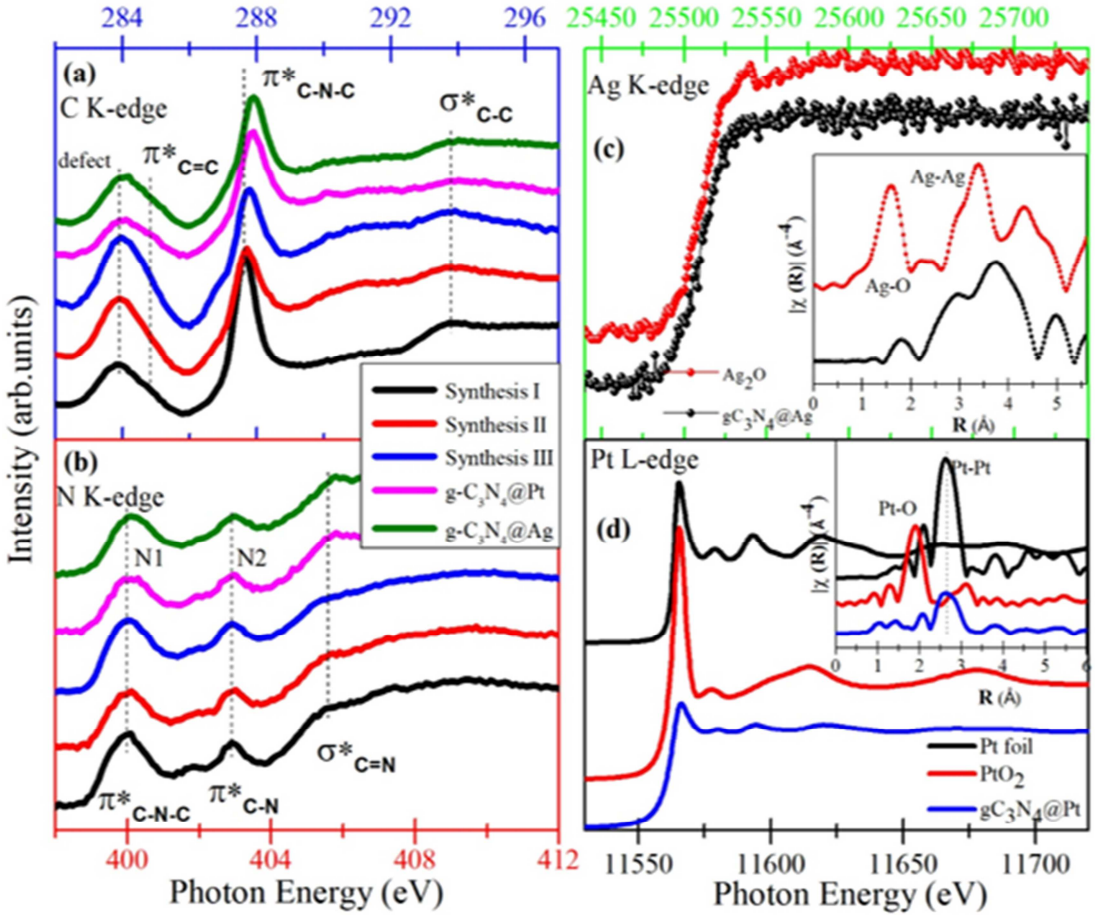
To appear in: *Current Applied Physics*

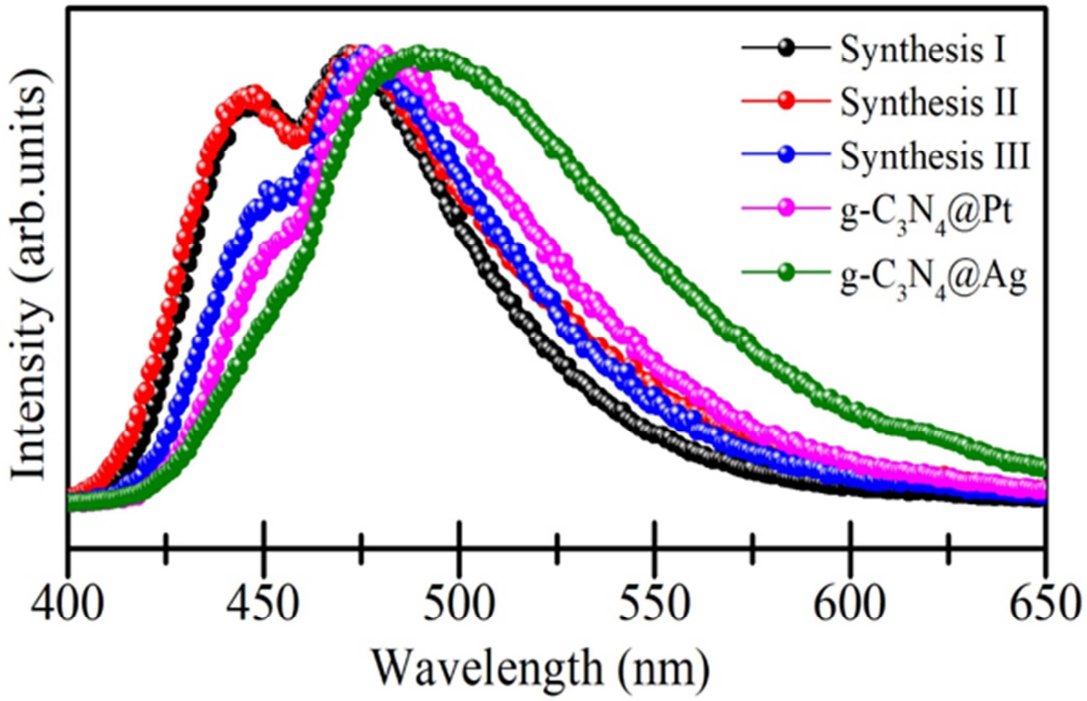
Received Date: 3 June 2018

Revised Date: 24 August 2018

Accepted Date: 30 August 2018

Please cite this article as: A. Sharma, M. Varshney, K.H. Chae, S.O. Won, Mechanistic investigations on emission characteristics from g-C_3N_4, g-C_3N_4@Pt and g-C_3N_4@Ag nanostructures using X-ray absorption spectroscopy, *Current Applied Physics* (2018), doi: 10.1016/j.cap.2018.08.019.


(a)
C K-edge
defect
π*C=C
π*C-N-C
σ*C-C
(b)
N K-edge
N1
N2
π*C-N-C
π*C-N
σ*C=N
Synthesis I
Synthesis II
Synthesis III
g-C3N4@Pt
g-C3N4@Ag
Intensity (arb.units)
Photon Energy (eV)
Ag K-edge
(c)
Ag-Ag
Ag-O
Ag2O
gC3N4@Ag
Pt L-edge
(d)
Pt-Pt
Pt-O
Pt foil
PtO2
gC3N4@Pt
R (Å)


Synthesis I
Synthesis II
Synthesis III
g-C3N4@Pt
g-C3N4@Ag
Intensity (arb.units)
Wavelength (nm)