Fig. 1 Representative SEM used for the statistical analyses. Carbon microspheres (a,b), ZnO-Carbon microspheres (c,d) and hollow microspheres (e,f).
Fig. 2 Graphene diffractions can be observed only after magnification of the region $\theta = 3-30^\circ$.

Fig. 3 XPS XPS survey scan of GO-(NH$_4$)$_3$CO$_3$/ZnO
Table I.- Corresponding averages of bondings related to C 1s signal for each sample

| Sample                      | C-C  | C-O-C | Zn-O-C | O-C=O | π-π* |
|-----------------------------|------|-------|--------|-------|------|
| ZnO                         | 0.72 | 0.16  | ----   | 0.05  | 0.07 |
| GO / ZnO                    | 0.50 | ----  | 0.29   | 0.12  | ---- |
| GO- (NH₄)₂CO₃/ZnO           | 0.46 | ----  | 0.28   | 0.14  | ---- |

Table II.- Corresponding averages of bondings related to O 1s signal for each sample
| Sample                  | O (I) | O (II) | O (III) |
|-------------------------|-------|--------|---------|
| ZnO                     | 0.49  | 0.41   | 0.10    |
| GO / ZnO                | 0.29  | 0.56   | 0.15    |
| GO-\((NH_4)_2CO_3/ZnO)  | 0.41  | 0.22   | 0.28    | 0.09    |