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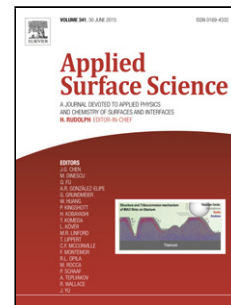
Title: Immobilizing Ternary $Zn_xCd_{1-x}S$ on Graphene via Solvothermal Method for Enhanced Photoelectric Properties

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- Composition-tunable $Zn_xCd_{1-x}S$ -graphene were prepared with a one-step solvothermal process by varying Zn/Cd ratios
- The diffraction peaks move to higher angle and UV-vis spectra present a progressive blue-shift with the increase of x value
- A more efficient separation of photo-induced carriers and a faster interfacial charge transfer occurs on graphene- $Zn_{0.8}Cd_{0.2}S$

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