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**Highlight of photocurrent generation in carbon-based nanohybrids combined with HfO<sub>2</sub> nanoparticles**  
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**Hybrid nanocomposites and ultrastable metal nanoparticles studied for the development of applications in nanomedicine, water purification and energy harvesting**  
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**Investigations on new carbon-based nanohybrids combining carbon nanotubes and metal oxide nanoparticles**  
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**Investigations on new carbon-based nanohybrids combining carbon nanotubes, HfO<sub>2</sub> and ZnO nanoparticles**  
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**One step synthesis of pure cubic and monoclinic HfO<sub>2</sub> nanoparticles : effects of temperature and ambient on the photoluminescent properties**  
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