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講題	Conducting Polymers and Metal Complexes for the New Gasochromic Materials 次世代氣致色變材料的開發與應用
摘要	Gasochromic (GC) materials are regarded as the next-generation light attenuation materials for smart windows because of their remarkable properties including an extremely simple structure, high optical contrast, low cost, and practical size. Unfortunately, only a few of these types of materials have been developed for use in smart windows, and are based on metal oxides and alloys. Recently, we discovered and reported a general method to obtain GC properties from EC polymers (polyaniline/polystyrene sulfonate (PANI:PSS)) by casting catalytic materials, platinum nanoparticles (PtNPs), on their surfaces . These results indicate that various EC materials have the possibility of being used as GC materials when incorporated with PtNPs. This new mechanism dramatically expands the selection of available gasochromic materials, such as Prussian blue complexes nanoparticles (PBNPs).
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