

optical properties (excluding spectra) (solids and liquids)

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Electrochromism of Electrochemically Codeposited Composites of Phosphomolybdic Acid and Tungsten Trioxide. — The electrochromic properties of polyphosphomolybdic acid ($P_2O_5 \cdot 24 MoO_3 \cdot nH_2O$, PM) in solution and in a novel composite prepared by electrochemical codeposition of WO_3 and PM are studied. In solution PM changes color from light yellow to blue upon reduction. Incorporation of PM into a host pristine WO_3 structure intensifies the color and makes the electrochromic response speed slower than that of WO_3 . These changes show that the composite is not a simple mixture of its components. Compounding with PM does not seem to improve the stability of the WO_3 structure against electrochemical degradation. — (PAN, B. H.; LEE, J. Y.; J. Electrochem. Soc. 143 (1996) 9, 2784-2789; Dep. Chem. Eng., Natl. Univ., Singapore 119260, Singapore; EN)