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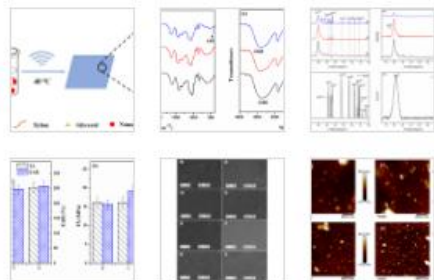
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### Abstract

The effects of nano-ZnO and nano-SiO<sub>2</sub> on the properties of PVA/xylan composite films were investigated in this work. Results showed that nano-ZnO and nano-SiO<sub>2</sub> could effectively improve the mechanical strength, moisture and oxygen barrier properties and surface hydrophobic property of the composite films. The results of FTIR and XRD indicated the interaction of **hydrogen bonds** between nanoparticles and PVA and **xylan**. When the contents of nano-ZnO and nano-SiO<sub>2</sub> in the composite films were 3%, the **tensile strength** was increased to 20.4 MPa and 22.5 MPa, respectively, while **water vapor** permeability ( $3.14$  and  $3.03 \times 10^{-11} \text{ g} \cdot \text{m}^{-1} \cdot \text{s}^{-1} \cdot \text{Pa}^{-1}$ ) and oxygen permeability ( $5.28$  and  $5.003 \text{ cm}^3 \cdot \text{m}^{-2} \cdot 24 \text{ h}^{-1} \cdot 0.1 \text{ MPa}^{-1}$ ) reached the minima. With the increase of nano-ZnO and nano-SiO<sub>2</sub> dosage, the solubility of composite films was increased. When the contents of

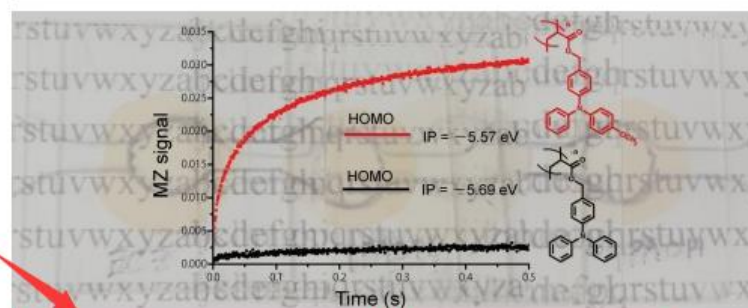
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Photorefractive performances of the composites using two kinds of photoconductive triphenylamine-based polymer have been compared and investigated. One polymer is poly(4-(diphenylamino)benzyl acrylate) (PDAA). The other is newly synthesized one of photoconductive acrylate polymer with methoxy substituted triphenylamine pendant, poly(4-((4-methoxyphenyl)(phenyl)amino)benzyl acrylate) (PMPAA). The methoxy substituent in PMPAA does not only shift the highest occupied molecular orbital (HOMO) level of the polymer, but also effectively enhances the chromophore orientation. Larger phase shift is confirmed by using the modified photoconductive polymer of PMPAA. The plasticizer of (4-(diphenylamino)phenyl)methanol (TPAOH) (IP = -5.64 eV) works as an effective trap in the PDAA (IP = -5.69 eV)-based composite, resulting in higher diffraction efficiency. Diffraction efficiency of 70% and fast response time of 25 ms (dominant) is measured at 532 nm under the moderate electric field of 45 V/ $\mu\text{m}$ .

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