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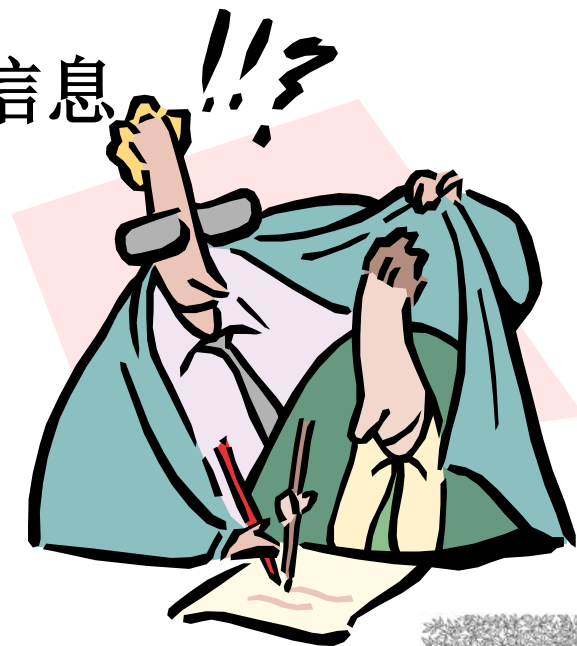
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# 提要

- 了解Elsevier公司和ScienceDirect全文数据库覆盖的学科领域
- 学习如何通过ScienceDirect查找信息
  - 检索
  - 浏览



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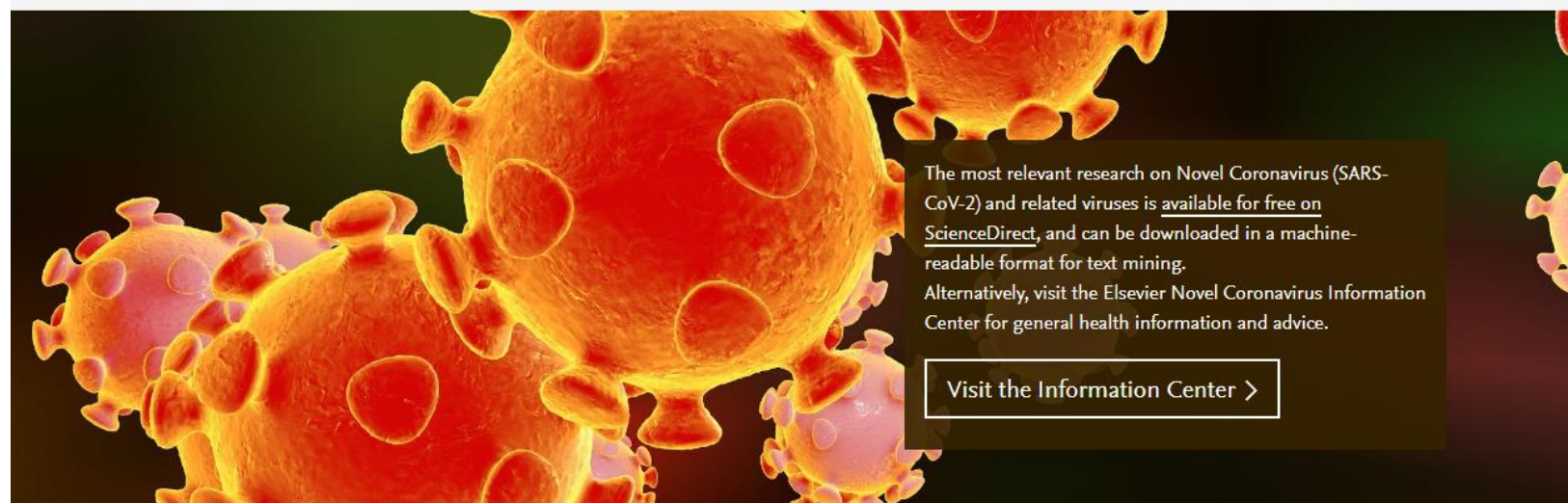
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Figures (10)



**International Journal of Biological Macromolecules**

Volume 132, 1 July 2019, Pages 978-986

## Effects of nano-ZnO and nano-SiO<sub>2</sub> particles on properties of PVA/xylan composite films

Xinxin Liu, Xiaofeng Chen, Junli Ren , Minmin Chang, Bei He, Chunhui Zhang

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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

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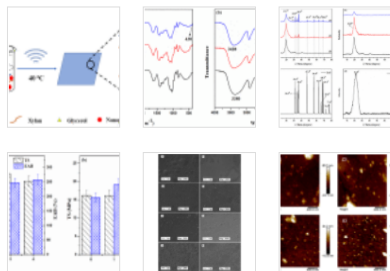
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## Abstract

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

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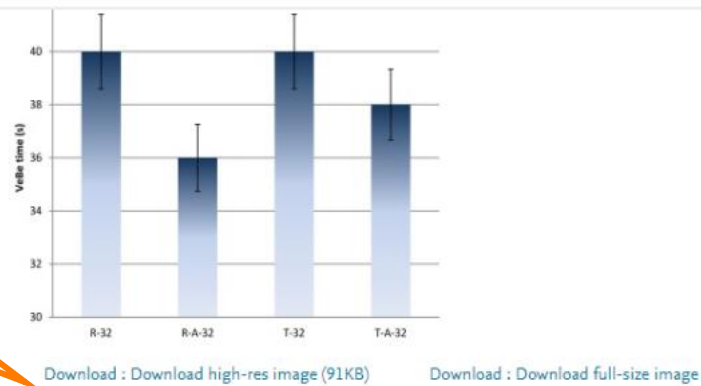


Fig. 1. Results of the VeBe test for fresh concrete.

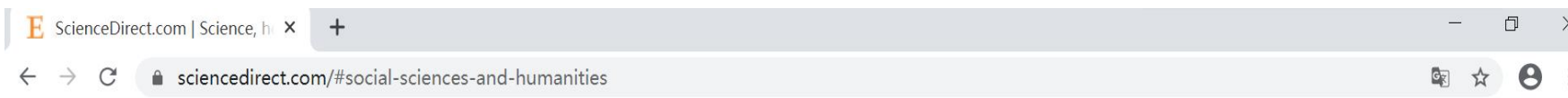
## 3.2. Hardened concrete properties

### 3.2.1. Compressive and tensile strengths

Results of **compressive strength**, relative compressive strength, and splitting **tensile strength** are presented in [Fig. 2](#), [Fig. 3](#), [Fig. 4](#), respectively. The tests were performed



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