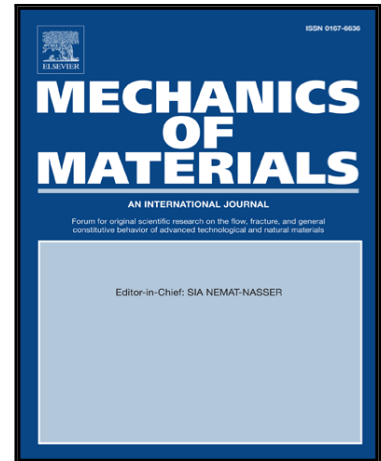


## Accepted Manuscript

Meso-structure ageing mechanism of 3-D braided composite's compressive behaviors under accelerated thermo-oxidative ageing environment



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**Highlights**

- Localized behavior of oxidized layer in aged resin is tested with nanoindentation.
- Homogeneous model and multilayer model were proposed to explain aging behavior.
- Ageing mechanisms of 3D braided composites are numerically analyzed.

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