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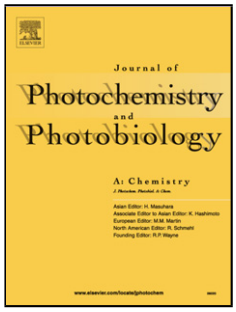

Title: Photocatalytic paint for fungi growth control under different environmental conditions and irradiation sources

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Photocatalytic paint for fungi growth control under different environmental conditions and irradiation sources

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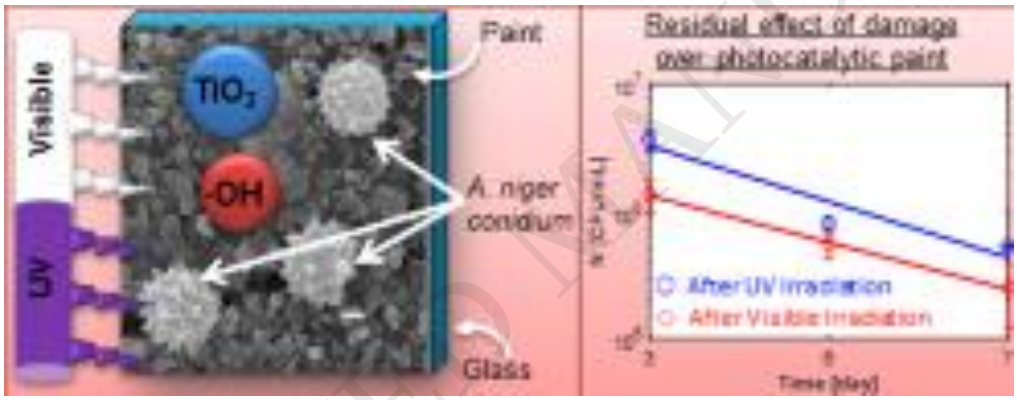
Graphical abstract



HIGHLIGHTS

- *Aspergillus niger* inactivation on photocatalytic and blank paints was studied
- All paints presented the same conidia inactivation under visible light
- The inactivation was higher for photocatalytic paint under UV light
- Residual conidia inactivation after radiation on photocatalytic paint was observed
- Vegetative fungi growth control under both UV and visible radiation was achieved

Abstract

The fungicide effect employing *Aspergillus niger* as a representative microorganism was tested applying a Photocatalytic paint formulated with an anatase carbon doped