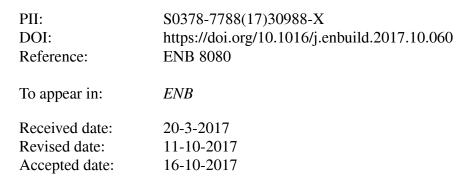
### Accepted Manuscript

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## ACCEPTED MANUSCRIPT

# Development of multifunctional plaster using nano-TiO<sub>2</sub> and distinct particle size cellulose fibers

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Graphical abstract

#### Highlights

- Cellulose fiber from pulp and paper industry were investigated.
- Cellulose fiber enhanced the MBV regarding the reference sample
- The thermal conductivity of fibers-containing plaster was reduced 48%
- The photocatalytic activity of plasters increased up to 50% NOx degradation

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