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Authors: Aingeru Remiro, Aitor Arandia, Lide Oar-Arteta, Javier Bilbao, Ana G. Gayubo



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## Regeneration of $\text{NiAl}_2\text{O}_4$ spinel type catalysts used in the reforming of raw bio-oil

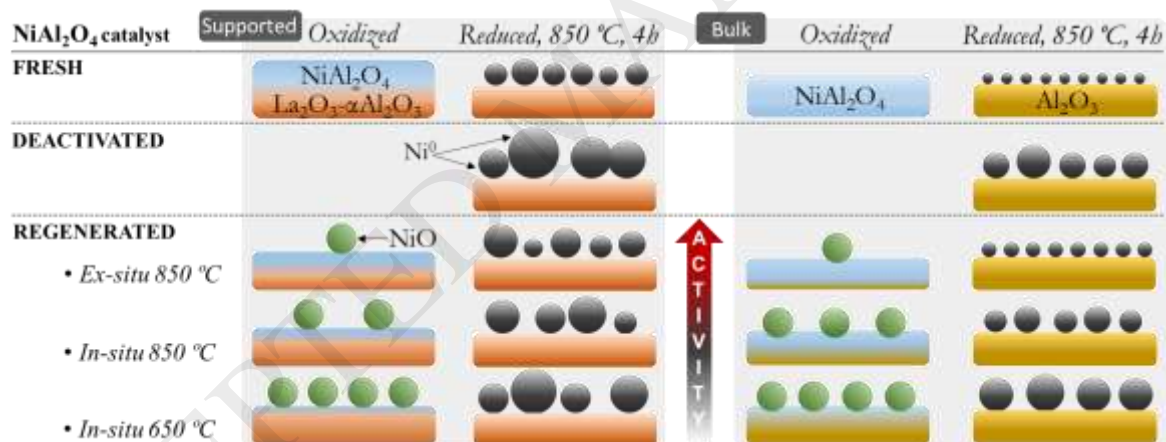
Aingeru Remiro<sup>a,\*</sup>, Aitor Arandia<sup>a</sup>, Lide Oar-Arteta<sup>b</sup>, Javier Bilbao<sup>a</sup>, Ana G. Gayubo<sup>a</sup>

<sup>a</sup>Chemical Engineering Department, University of the Basque Country (UPV/EHU), P. O. Box 644, 48080. Bilbao, Spain. Phone: +34 946 015361. Fax: +34 946 013 500

<sup>b</sup>Catalysis Engineering / ChemE / TUDelft, Van der Maasweg 9, 2629 HZ Delft (The Netherlands)

\*email: aingeru.remiro@ehu.es

### Graphical abstract



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