

## Accepted Manuscript

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PII: S0926-860X(18)30100-5  
DOI: <https://doi.org/10.1016/j.apcata.2018.02.033>  
Reference: APCATA 16573

To appear in: *Applied Catalysis A: General*

Received date: 4-9-2017  
Revised date: 21-2-2018  
Accepted date: 26-2-2018

Please cite this article as: Markiton M, Szelwicka A, Boncel S, Jurczyk S, Chrobok A, Superactive tin(II) triflate/carbon nanotube catalyst for the Baeyer-Villiger oxidation, *Applied Catalysis A, General* (2018), <https://doi.org/10.1016/j.apcata.2018.02.033>

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# Superactive tin(II) triflate/carbon nanotube catalyst for the Baeyer-Villiger oxidation

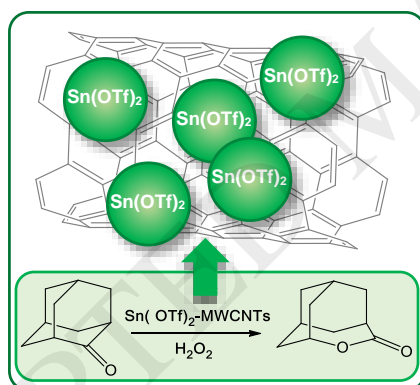
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Graphical abstract



## Highlights:

- A new catalyst based on tin(II) triflate/carbon nanotubes is described
- High activity of new catalyst in Baeyer-Villiger oxidation is presented
- A dual Lewis- and Brønsted-acid-mediated mechanism of oxidation is proposed

## Abstract

The Baeyer-Villiger oxidation of a model cyclic ketone, 2-adamantanone, using H<sub>2</sub>O<sub>2</sub> as the oxidizing agent, was systematically studied using a range of metal triflates in toluene. The extremely high activity of Sn(OTf)<sub>2</sub> in promoting the oxidation, allowing full conversion of

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