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**A review relating to olefin oligomerization has been published in the Chemical Reviews journal. A first for IFPEN, and an original contribution on the part of the scientists who shared their solid expertise acquired in the field during the course of their research.**

The review authors, who specialize in “Catalysis, Biocatalysis and Separation” and “Process Modeling and Design”, are major contributors **in the field of olefin oligomerization for the refining and petrochemicals sectors**. They focused on the design and development of new catalysts (homogeneous and heterogeneous), as well as their implementation within the context of innovative processes. Their work thus concerned **the entire process**, from fundamental research through to industrial applications.

The skills and expertise stemming from this research **underpin the originality of this 64-page review** focusing on nickel-catalyzed olefin oligomerization.

While the discovery of this field dates back to the 1950s, numerous scientific challenges still need to be overcome. The review focuses **on the last ten years from an abundance of literature on the subject** covering homogeneous catalysis based on Ni complexes, heterogeneous catalysis and more exotic supported and multiphase catalysis implementation methods.

The review also covers **fundamental approaches relating to the understanding of mechanisms and active species as well as their applications**, incorporating patent literature, industrial applications and the technological challenges to be overcome.

Lastly, it offers the potential to **create bridges between different approaches** and different disciplines and address **key scientific questions** concerning olefin oligomerization.

### [Nickel Catalyzed Olefin Oligomerization and Dimerization](#)

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A publication in Chemical reviews, a first for IFPEN!

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