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# Recent progress of transition metal based catalysts for the selective dimerization of ethylene

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This work is dedicated to Prof. Irina P. Beletskaya on the occasion of her 85<sup>th</sup> birthday.

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## ABSTRACT

In this mini-review, the state-of-the-art of transition metal catalyzed selective dimerization of ethylene to butenes is presented. Catalytic activities, operating conditions, as well as the C<sub>4</sub> and 1-butene/*cis*- and *trans*-2-butene selectivities, are discussed. The scope of the review is 2000-present.

**Keywords:** Ethylene; 1-butene; 2-butene; dimerization; single-site; transition metals

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