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UNIVERSITY OF WISCONSIN-MADISON

## GAS PHASE OZONE-MEDIATED SELECTIVE OXIDATIVE DEHYDROGENATION OF ALKANES

[View U.S. Patent No. 11,680,030 in PDF format.](#)

**WARF: P210201US02**

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### The Invention

An improved ODH method for the conversion of alkanes (e.g., propane) to alkenes (e.g., propylene) that leverages an oxygen-atom donor. Essentially, the method is radical-mediated, requiring only a small concentration of initiator (ozone) to propagate the reaction of air-derived oxygen and propane to produce propylene.

### Additional Information

#### For More Information About the Inventors

- [Ive Hermans](#)

#### Tech Fields

- [Materials & Chemicals : Catalysts](#)

For current licensing status, please contact Jennifer Gottwald at [jennifer@warf.org](mailto:jennifer@warf.org) or 608-960-9854

