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Method For Aerobic Oxidative Coupling Of Thiophenes With A Ligand-Supported Palladium Catalyst

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Inventors: Shannon Stahl, Stephen Tereniak

The Invention

An oxidative homocoupling method of synthesizing certain 2,2'-bithiophenes from thiophenes using oxygen as the terminal oxidant is disclosed. In non-limiting examples, the method uses oxygen along with a catalytic system that includes palladium, an assistive ligand, and a non-palladium metal additive to catalyze one of the following reactions: [Image Omitted] Associated catalytic systems and compositions are also disclosed.

Additional Information

For More Information About the Inventors

- [Shannon Stahl](#)

Tech Fields

- [Materials & Chemicals : Synthesis](#)

For current licensing status, please contact Jennifer Gottwald at jennifer@warf.org or 608-960-9854

