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Process intensification technologies for biodiesel production play an important role in the quest of driving the investment and operating costs to lower values. Among them, reactive separations and...

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Process Intensification Technologies for Biodiesel Production. Provides a detailed overview of novel reactive separation processes usable in the biodiesel production. Includes working principles, design and control of such integrated processes. Explores the integration of reaction and separation into one operating unit to overcome equilibrium limitations.

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### Process Intensification Technologies for Biodiesel ...

Remarkable, the production of biodiesel already takes advantage of using advanced process intensification technologies such as novel reactors and integrated reactive separations (Qiu et al. 2010; Kiss and Bildea 2012; Oh et al. 2012).

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The SPR excels at transesterification. In biodiesel the SPR technology harnesses cavitation to transesterify vegetable or animal fats in seconds. When the cavitation bubbles collapse and produce shockwaves, powerful forces are generated that cut up the process material into microscopic sizes. This increases the surface contact area between the reactants.

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The technology the company has developed is SBI's Process Intensifying Continuous Flow-Through Reaction, a heterogeneous catalyst-based process adapted for the production of biodiesel from a variety of feedstocks. At the core of this technology is a carefully designed proprietary blended catalyst formula that has a long, active life.

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The transesterification process is the reaction of a triglyceride with an alcohol (methanol) to generate esters and glycerol. A triglyceride has a glycerin molecule as its base with three long chain fatty acids.

#### **Biodiesel production via hydrodynamic cavitation**

Biodiesel production using conventional technologies results in low yield and purity and is time-consuming. Newly introduced process intensification technologies (microreactor, membrane reactor, microwave, reactive distillation, and centrifugal contractor) to overcome these issues are also discussed.

Process intensification technologies for biodiesel production play an important role in the quest of driving the investment and operating costs to lower values. Among them, reactive separations and...

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