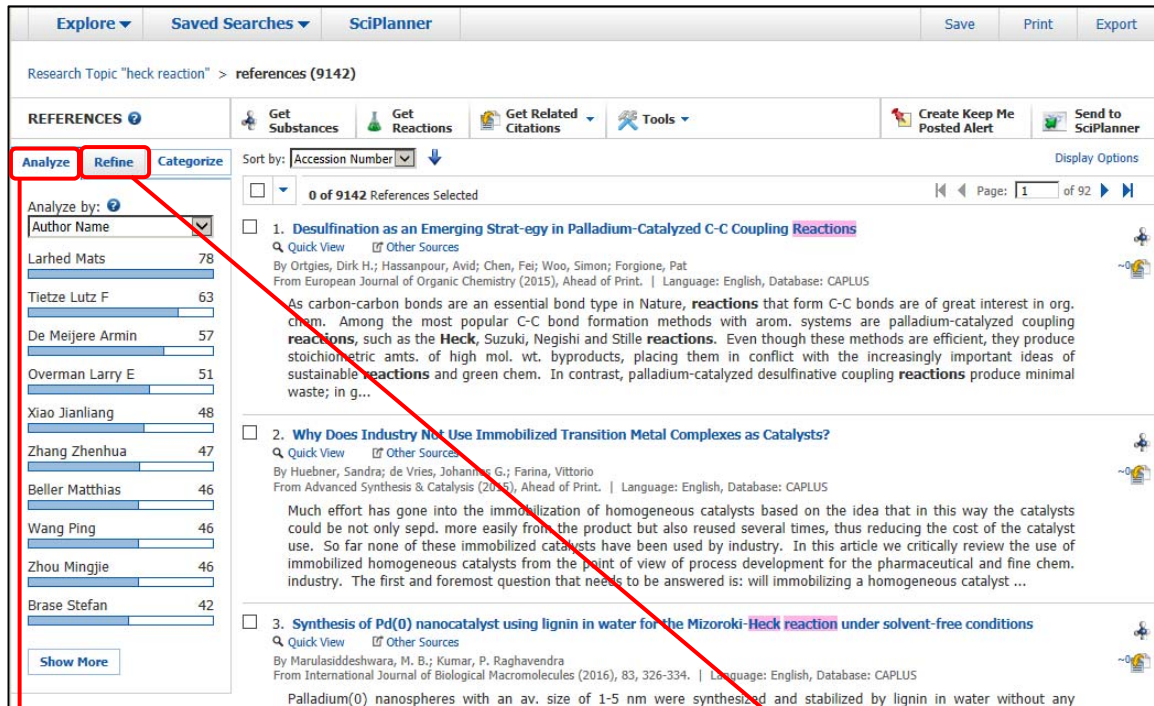


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1. Desulfination as an Emerging Strategy in Palladium-Catalyzed C-C Coupling Reactions

By Orgtjes, Dirk H.; Hassanpour, Avid; Chen, Fei; Woo, Simon; Forgiome, Pat
 From European Journal of Organic Chemistry (2015), Ahead of Print. | Language: English, Database: CAPLUS

As carbon-carbon bonds are an essential bond type in Nature, **reactions** that form C-C bonds are of great interest in org. chem. Among the most popular C-C bond formation methods with arom. systems are palladium-catalyzed coupling **reactions**, such as the **Heck**, Suzuki, Negishi and Stille **reactions**. Even though these methods are efficient, they produce stoichiometric amts. of high mol. wt. byproducts, placing them in conflict with the increasingly important ideas of sustainable **reactions** and green chem. In contrast, palladium-catalyzed desulfination coupling **reactions** produce minimal waste; in g...

2. Why Does Industry Not Use Immobilized Transition Metal Complexes as Catalysts?

By Huebner, Sandra; de Vries, Johannes G.; Farina, Vittorio
 From Advanced Synthesis & Catalysis (2016), Ahead of Print. | Language: English, Database: CAPLUS

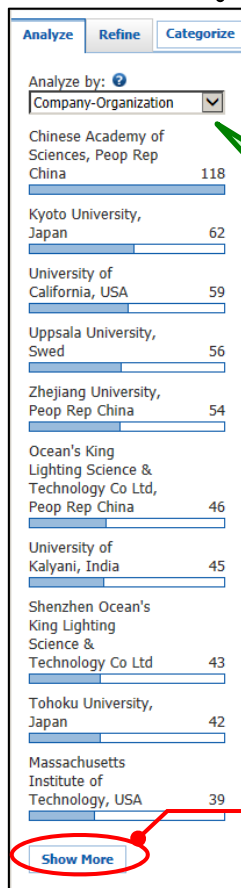
Much effort has gone into the immobilization of homogeneous catalysts based on the idea that in this way the catalysts could be not only sepd. more easily from the product but also reused several times, thus reducing the cost of the catalyst use. So far none of these immobilized catalysts have been used by industry. In this article we critically review the use of immobilized homogeneous catalysts from the point of view of process development for the pharmaceutical and fine chem. industry. The first and foremost question that needs to be answered is: will immobilizing a homogeneous catalyst ...

3. Synthesis of Pd(0) nanocatalyst using lignin in water for the Mizoroki-Heck reaction under solvent-free conditions

By Marulasiddeshwara, M. B.; Kumar, P. Raghavendra
 From International Journal of Biological Macromolecules (2016), 83, 326-334. | Language: English, Database: CAPLUS

Palladium(0) nanospheres with an av. size of 1-5 nm were synthesized and stabilized by lignin in water without any

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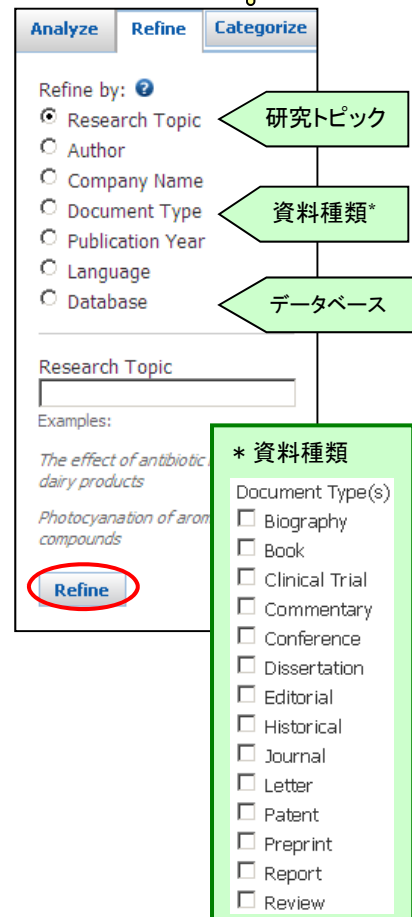
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205. An Arylative Ring Expansion Cascade of Fused Cyclobutenes via Short-Lived Intermediates with Planar Chirality

282. Catalytic C-CN Bond Activation

557. Remarkable ligand effect of P(2-MeOC6H4)3 on palladium-catalyzed direct arylation

ヒント

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