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where a great deal of
the research effort
was directed at large
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processes involving
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Traditionally,
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catalysis is associated
with the production
of petro- and bulk
chemicals whereas
fine and specialty
chemicals are

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produced predominantly with non-catalytic organic synthesis.

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presented existing, as

well as novel

processes for

employing

homogeneous in

addition to

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heterogeneous catalysts is discussed according to the type of reactions (e.g.,

hydrogenation, oxidation, isomerization, etc.)

for various biomass derived feedstocks (carbohydrates, lignans, phenols, flavonoids, tannins, and stilbenes, tall oil, and fatty acids).

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catalysis in the fine
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chemical industry has
remained confined to
hydrogenation
processes which, in
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between hydrogen and organic compounds, require high ($>400^{\circ}\text{C}$) and technically unfeasible reaction temperatures.

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can have a very
positive impact on
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