Special Issue

Catalytic Hydroprocesses and Oil Refining

Message from the Guest Editors

Hydroprocesses in oil refining have been developed for more than 70 years. However, the interest to this area is still great. At present, due to the tightening of ecological requirements to motor fuels and deepening of oil refining in general, improvement of hydroprocesses is ever more pertinent. Different approaches to the improvement of hydroprocessing catalysts and engineering approaches to improve performance of catalysts are being developed. Catalyst improvement includes preparation methods, synthesis of new precursors of active components, synthesis of new supports or supports and catalysts with adjusted properties, etc. To optimize catalysts' performance, various engineering solutions can be applied. Improvement of all the aspects of hydroprocessing is devoted to the production of ULS motor fuels by removing sulfur, nitrogen or aromatic compounds or to the increase of the yield of goal fractions like gasoline or diesel during hydrocracking or cracking processes.

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