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Sommario/riassunto	The objective of this Special Issue is to provide new contributions in the area of biomass valorization using heterogeneous catalysts and focusing specifically on the structure/activity relationships of specific and important oxidation, hydrogenation, hydrodeoxygenation and biocatalytic processes. The issue emphasizes the influence of the design and morphology of the catalyst, in terms of particle size, redox and acid-base properties and catalyst stability. Finally, mechanistic studies and examples of design and optimization of industrial processes are presented.