



Catalysis in α -Olefin Polymerization/Oligomerization

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Deadline for manuscript
submissions:

closed (30 April 2019)

Message from the Guest Editor

Fifty-five years after the Nobel Prize was awarded to Ziegler and Natta in 1963, polymerization/oligomerization of α -olefins by transition-metal catalysts has grown to one of the most enchanting areas in academic and industrial research. The transition-metal catalysts have enabled precise synthesis of polyolefins and oligomers with the suitable choice of an ancillary ligand for the transition-metal complex. In recent decades, extensive research efforts have been devoted to developing new early- and late transition metal catalysts that can achieve higher activities and stereospecificities, and controlled polymer properties in various α -olefin polymerization. Progress in research on coordination polymerization catalyzed by transition-metal complexes continues to produce new α -olefin-based materials that are economically and environmentally favorable.

