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Nota di contenuto	Carbonyl-Lewis acid complexes / Takashi Ooi and Keiji Maruoka -- Carbonyl recognition / Susumu Saito and Hisashi Yamamoto -- Pinacol coupling / Gregory C. Fu -- Modern free radical methods for the synthesis of carbonyl compounds / Ilhyong Ryu and Mitsuo Komatsu -- Acyllithium / Shinji Murai and Keiji Iwamoto -- [pi]-facial selectivity in reaction of carbonyls : a computational approach / James M. Coxon and Richard T. Luibrand -- Engineered asymmetric catalysis / Koichi Mikami -- Aldol reaction : methodology and stereochemistry / Erick M. Carreira -- Stereoselective aldol reactions in the synthesis of polyketide natural products / Ian Paterson, Cameron J. Cowden and Debra J. Wallace -- Allylation of carbonyls : methodology and stereochemistry / Scott E. Denmark and Neil G. Almstead -- Recent applications of the allylation reaction to the synthesis of natural products / Sherry R. Chemler and William R. Roush -- Asymmetric Michael-type addition reaction / Kiyoshi Tomioka -- Stereoselective radical reactions / Mukund P. Sibi and Tara R. Ternes -- Activation of carbonyl and related compounds in aqueous media / Shu Kobayashi, Kei Manabe, and

Satoshi Nagayama -- Thermo- and photochemical reactions of carbonyl compounds in the solid state / Fumio Toda.

Sommario/riassunto

The carbonyl group is undoubtedly one of the most important functional groups in organic chemistry, both in its role as reactive center for synthesis or derivatisation and as crucial feature for special structural or physiological properties. Vast and profound progress has been made in all aspects modern carbonyl chemistry. These achievements are, however, rather dispersed in the literature and it is often not easy for the researcher obtain a comprehensive overview of a relevant topic. Modern Carbonyl Chemistry overcomes this inconvenience by collating the information for appropriate themes.
