1,2_Insertion_CO

$${}^{1}C = {}^{4}O^{+} + {}^{2}R - {}^{3}R \qquad {}^{4}C - {}^{3}R$$

1,3_Insertion_CO2

$${}^{2}O = {}^{1}C = OH + {}^{3}R - {}^{4}R \qquad {}^{3}R - {}^{1}C - {}^{3}O - {}^{2}R$$

1,3_Insertion_ROR

$${}^{3}R - {}^{4}O - R + {}^{1}R = {}^{2}R \qquad {}^{3}R - {}^{1}R - {}^{2}R - {}^{4}O - R$$

1,3_Insertion_RSR

$${}^{3}R - {}^{4}S - R + {}^{1}R = {}^{2}R \qquad {}^{3}R - {}^{1}R - {}^{2}R - {}^{4}S - R$$

1,2_Insertion_carbene

$${}^{1}CH_{2} + {}^{2}R - {}^{3}R \qquad {}^{2}R - {}^{1}C - {}^{3}R \qquad {}^{2}R - {}^{1}C - {}^{3}R \qquad {}^{2}C - {}^{4}R$$

2+2_Cycloaddition_CCO

$${}^{1}C + {}^{3}R \qquad {}^{2}C - {}^{4}R \qquad {}^{2}C - {}^{4}R$$

Intra_Retro_Diels_alder_bicyclic

Intra_Diels_alder_monocyclic

$${}^{1}C = {}^{2}C - {}^{3}C = {}^{4}C - {}^{5}C = {}^{6}C$$

 $Intra_5_membered_conjugated_C=C_C=C_addition$

Intra_ene_reaction

Cyclopentadiene_scission

Korcek_step1

Korcek_step2

$$_{0}^{6}$$
H $_{0}^{2}$ C $_{0}^{3}$ C $_{0}^{6}$ H $_{0}^{4}$ C $_{0}^{6}$ H $_{0}^{6}$ C $_{0}^{6}$ C $_{0}^{6}$ H $_{0}^{6}$ C $_{0}$