H_Abstraction
$${}^{1}R - {}^{2}H + {}^{3}R \implies {}^{1}R + {}^{2}H - {}^{3}R$$

$$R_{R}ecombination \qquad {}^{1}R + {}^{2}R \implies {}^{1}R - {}^{2}R$$

$$Birad_{R}Recombination \qquad {}^{1}R + {}^{2}R : \implies {}^{1}R - {}^{2}R$$

$$Disproportionation \qquad {}^{1}R + {}^{3}R - {}^{2}R - {}^{4}H \implies {}^{1}R - {}^{4}H + {}^{3}R = {}^{2}R$$

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

$$Substitution_{O} \qquad R - {}^{1}O - {}^{2}R + {}^{3}R \implies {}^{2}R - {}^{1}O - {}^{3}R + {}^{2}R$$

$$Substitution_{O} \qquad R - {}^{1}S - {}^{2}R + {}^{3}R \implies {}^{2}R - {}^{1}S - {}^{3}R + {}^{2}R$$

$$R_{Addition_{O}MultipleBond} \qquad {}^{2}R = {}^{1}R + {}^{3}R \implies {}^{2}R - {}^{1}C$$

$$R_{Addition_{O}COm} \qquad {}^{1}C = {}^{3}O^{+} + {}^{2}R \implies {}^{3}C \implies$$

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

$$^{4}C$$
 ^{5}C ^{4}C ^{3}C ^{2}C ^{5}C ^{1}C

Intra_ene_reaction

$$^{2}C$$
 ^{3}C
 ^{4}C
 ^{1}C
 ^{5}C
 ^{6}H
 ^{2}C
 ^{3}C
 ^{4}C
 ^{1}C
 ^{5}C

Cyclopentadiene_scission

Korcek_step1

Korcek_step2

$$^{2}C$$
 ^{3}C
 ^{4}O
 ^{1}C
 ^{2}C
 ^{6}H
 ^{1}C
 ^{2}C
 ^{6}H
 ^{6}H
 ^{1}C
 ^{2}C
 ^{6}H
 ^{6}H
 ^{1}C
 ^{2}C
 ^{6}H
 ^{6}H
 ^{6}H
 ^{1}C
 ^{2}C
 ^{6}H
 6

Korcek_step1_cat

Bimolec_Hydroperoxide_Decomposition

$$R - {}^{1}O - {}^{2}O - H + R - O - {}^{4}O - {}^{3}H \longrightarrow R - {}^{1}O \cdot + {}^{2}O \setminus {}^{3}H + R - O - {}^{4}O \cdot$$

Peroxyl_Termination

$$^{4}H_{-}^{1}R_{-}^{2}O_{-}^{3}O_{+} + R_{-}^{5}O_{-}^{6}O_{+} + R_{-}^{5}O_{-}^{4}H_{+}^{3}O_{-}^{6$$

Peroxyl Disproportionation

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

Baeyer-Villiger_step1_cat

Baeyer-Villiger_step2

$${}^{2}[C,H]$$
 ${}^{5}O$
 ${}^{6}O$
 ${}^{7}C$
 ${}^{7}C$
 ${}^{7}C$
 ${}^{8}O$
 ${}^{4}H$
 ${}^{8}O$
 ${}^{4}H$
 ${}^{8}O$

Baeyer-Villiger_step2_cat

$$^{2}[C,H]$$
 ^{3}O
 ^{4}H
 ^{5}O
 $^{2}[C,H]$
 ^{5}O
 $^{2}[C,H]$
 $^{2}[C,H]$
 ^{5}O
 $^{2}[C,H]$
 ^{4}H
 ^{5}O
 ^{4}H
 ^{5}O
 ^{4}H
 ^{5}O
 ^{4}H
 ^{5}O
 ^{4}H
 ^{5}O
 ^{5}O
 ^{4}H
 ^{5}O
 ^{5}O