Figure 11

Dissipation
(heat of high entropy)

Biosphere

Photosynthesis

Calvin cycle

Photosystems

Metabolism

Solar radiation
(low entropy)

Carbon
dioxide

H₂O

CO₂

H₂O

Chemical
equilibrium
(mass with
high entropy)

Chemical
disequilibrium
(mass with
low entropy)

Organic carbon

O₂

O₂

CO₂

H₂O

CH₂O

CH₂O

H₂O

O₂

O₂

Metabolism

H⁺ + e⁻