The process by which green plants and some other organisms use sunlight to synthesize nutrients from carbon dioxide and water.
The incorporation of carbon into organic compounds by living organisms, chiefly by photosynthesis in green plants.
CATALYSE

To cause or accelerate a reaction
The ejection of electrons from an atom, ion or molecule caused by the absorption of photons.
PHOTOLYSIS

The breakdown or separation of molecules by the action of light
A series of reactions, occurring during the light-independent stage of photosynthesis, in which glucose is synthesized from carbon dioxide.