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Nota di contenuto	The multiple roles of various reactive oxygen species (ROS) in photosynthetic organisms / Franz-Josef Schmitt, Vladimir D. Kreslavski, Sergey K. Zharmukhamedov, Thomas Friedrich, Gernot Renger, Dmitry A. Los, Vladimir V. Kuznetsov, Suleyman I. Allakhverdiev -- Photooxidation of Mn-bicarbonate complexes by reaction centers of purple bacteria as a possible stage in the evolutionary origin of the water-oxidizing complex of photosystem II / Vasily V. Terentyev, Andrey A. Khorobrykh, Vyacheslav V. Klimov -- Hydrogen metabolism in microalgae / Anatoly A. Tsygankov, Azat Abdullatypov -- The structure and regulation of chloroplast ATP synthase / Alexander N. Malyan -- Structural and functional organization of the pigment-protein complexes of the photosystems in mutant cells of green algae and higher plants / Vladimir G. Ladygin -- Photosynthetic carbon metabolism : strategy of adaptation over evolutionary history / Irina R. Fomina, Karl Y. Biel.