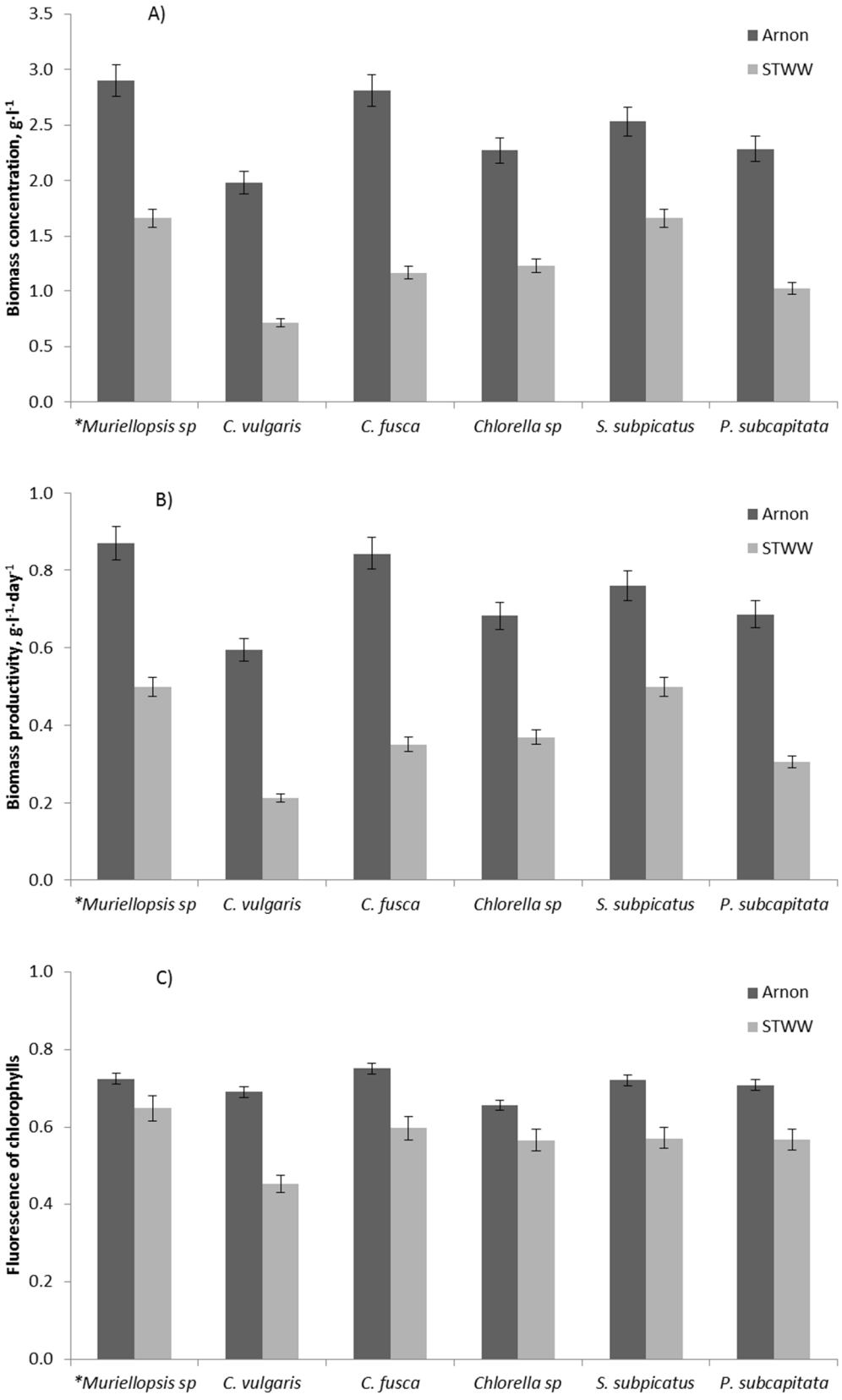


**Figure 1.-** Variation in biomass concentration, biomass productivity and florescence of chlorophylls in the selected strains as a function of the culture medium used: Arnon or secondary-treated wastewater (STWW).

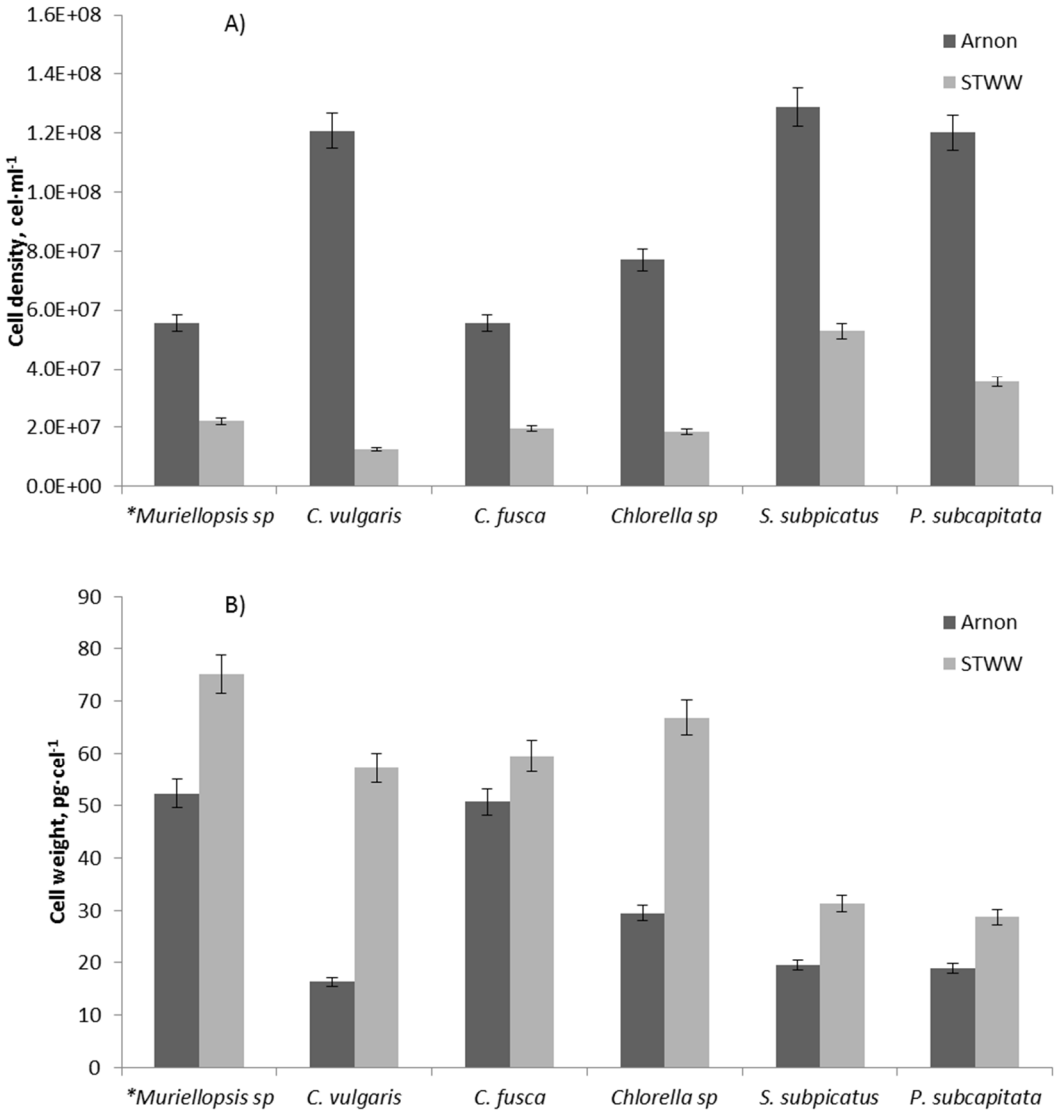


**Figure 2.-** Variation in cell density and cell weight of the selected strains as a function of the culture medium used: Arnon or secondary-treated wastewater (STWW).

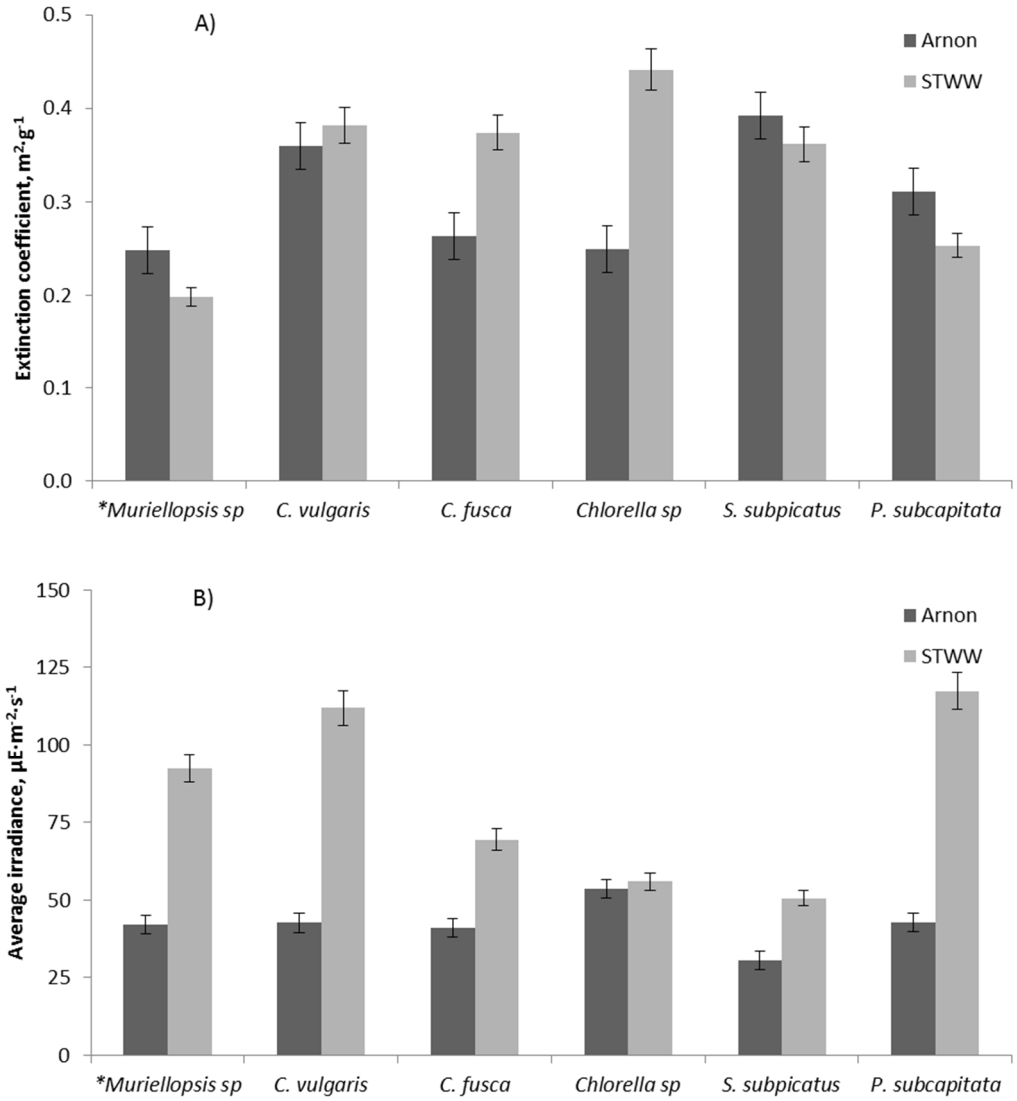


**Figure 3.-** Variation in the biomass extinction coefficient and the average irradiance inside the cultures as a function of the culture medium used: Arnon or secondary-treated wastewater (STWW).

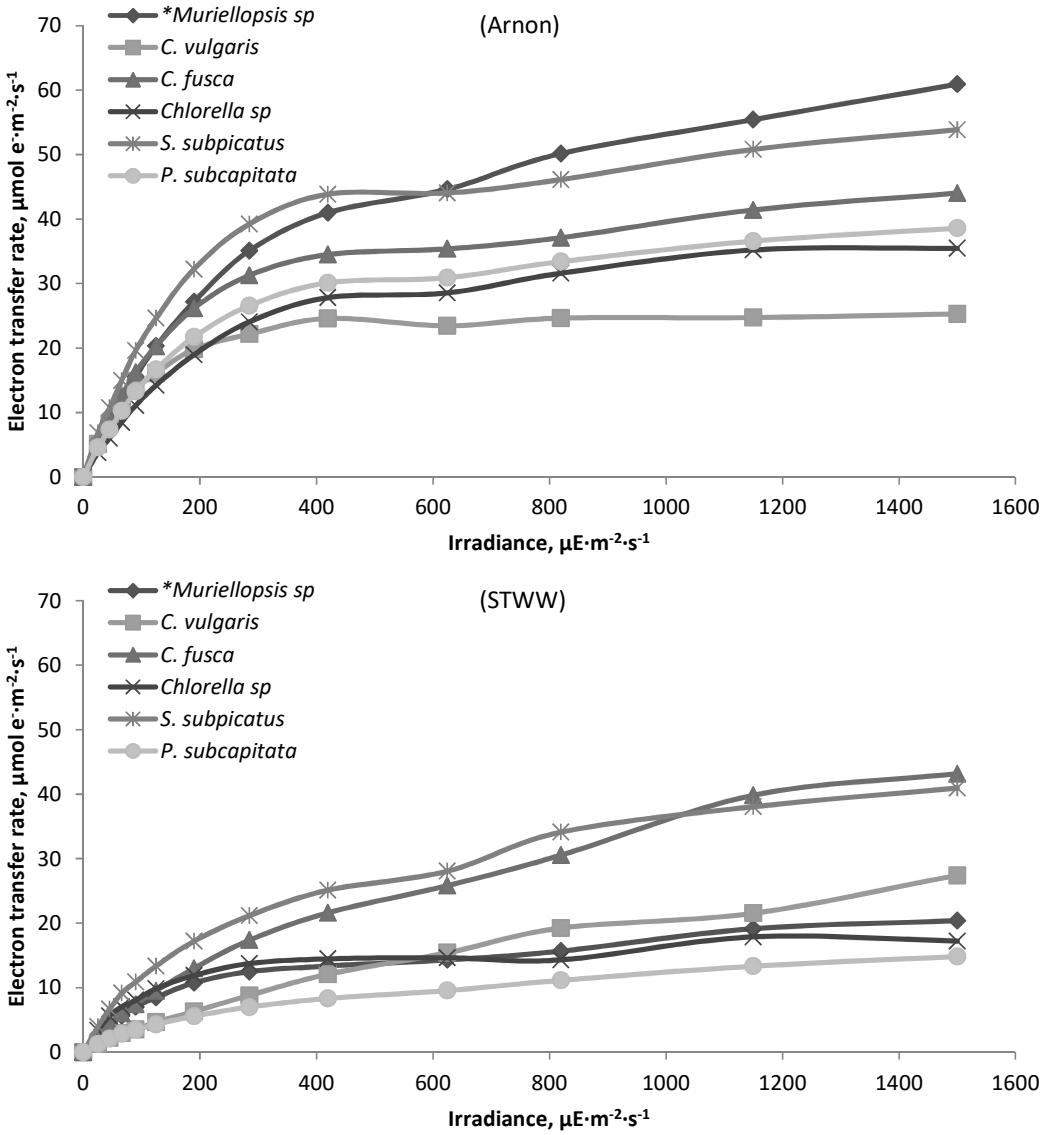


**Figure 4.-** Variation in the electron transfer rate (ETR) with the light availability for each of the strains tested as a function of the culture medium used: Arnon or secondary-treated wastewater (STWW).

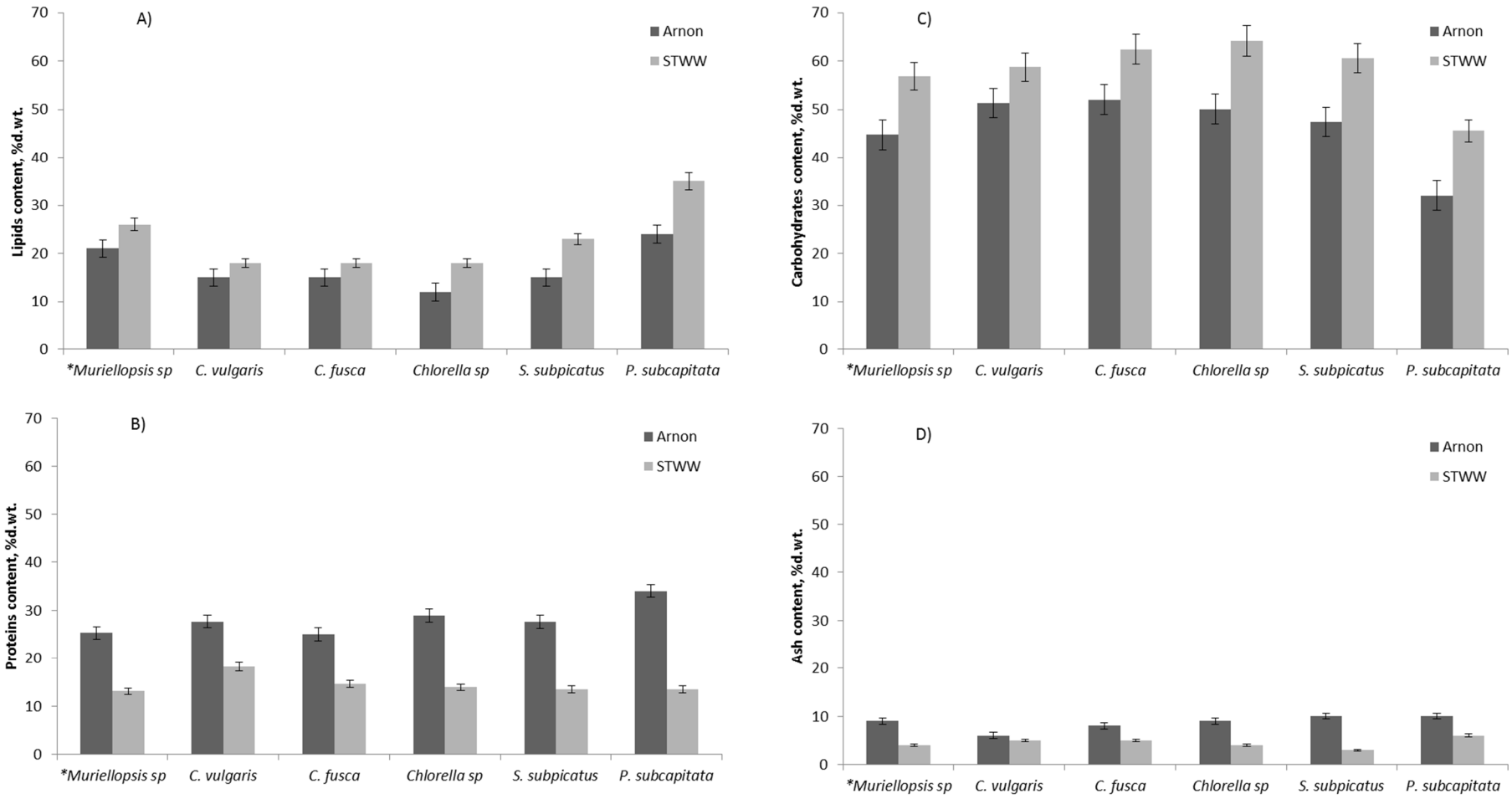


**Figure 5.-** Variation in the biochemical composition of the biomass as a function of the culture medium used: Arnon or secondary-treated wastewater (STWW). A) Lipid content; B) Protein content; C) Carbohydrate content; D) Ash content.

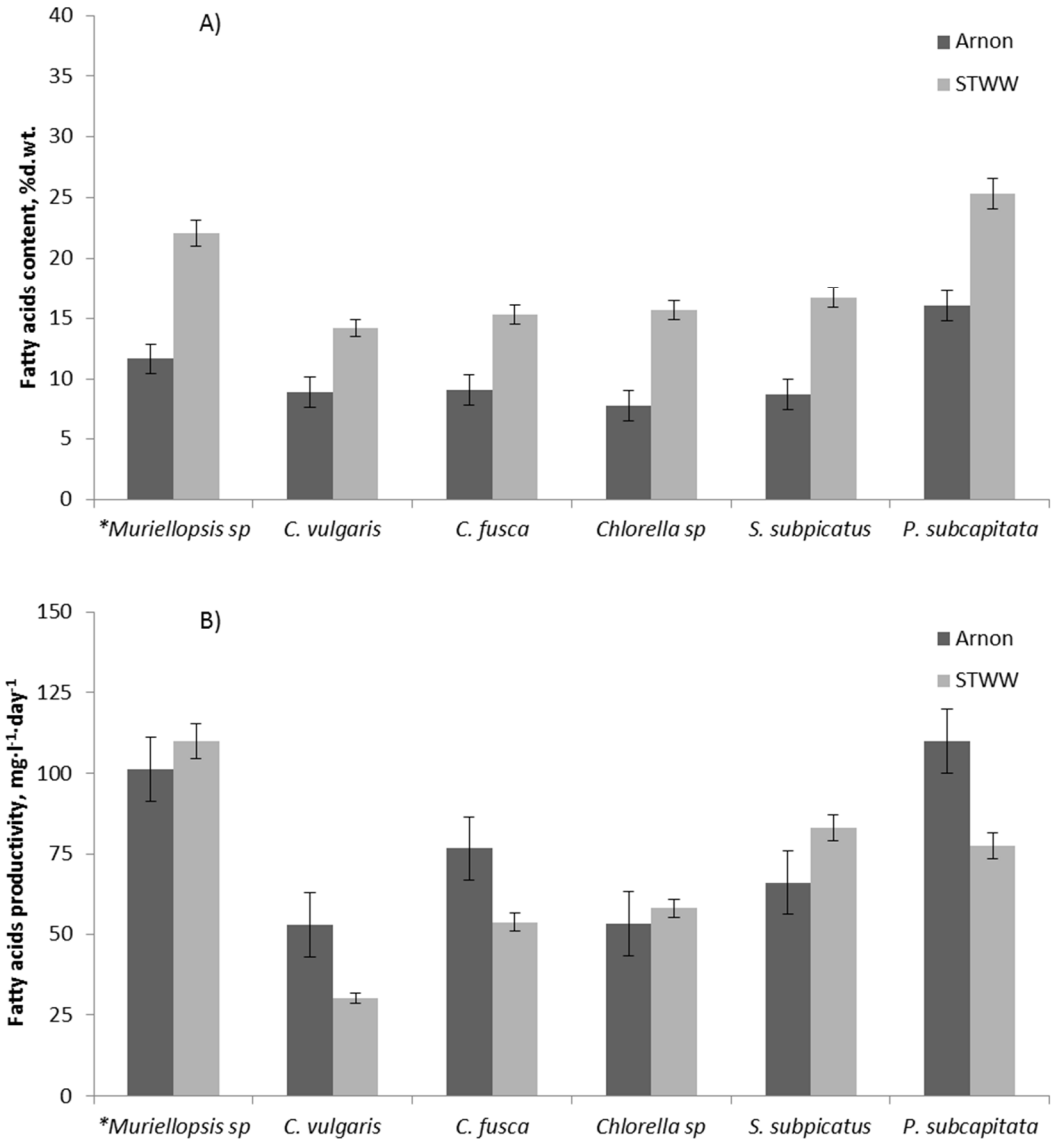


**Figure 6.-** Variation in the fatty acid content of the biomass and the fatty acid productivity of the cultures as a function of the culture medium used (Arnon or secondary-treated wastewater-STWW) and the strain used.

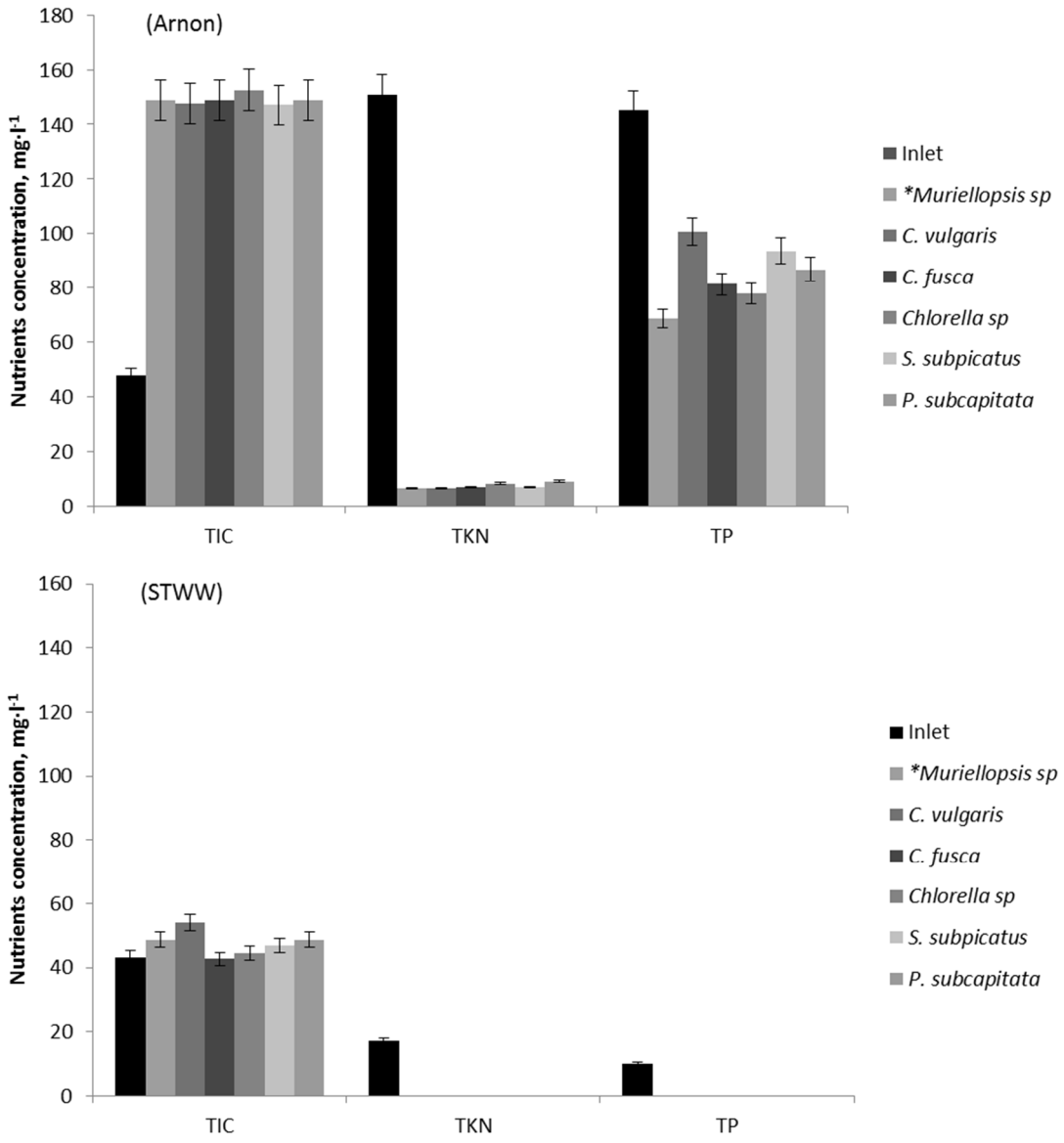


**Figure 7.-** Variation in the nutrient content at the inlet and outlet of the culture medium reactors as a function of the culture medium used (Arnon or secondary-treated wastewater-STWW) and the strain used.

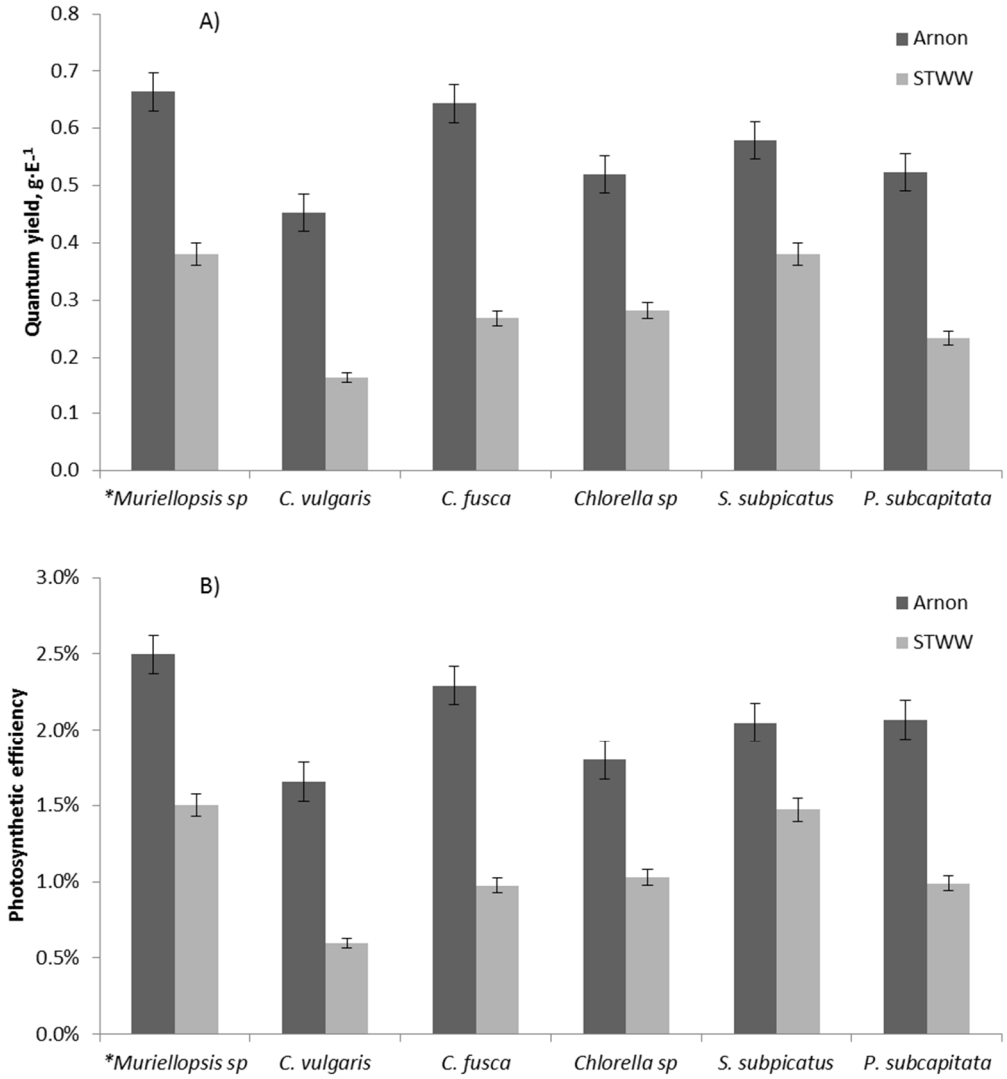


**Figure 8.-** Variation in the quantum yield and photosynthetic efficiency as a function of the culture medium (Arnon or secondary-treated wastewater-STWW) and the strain used.

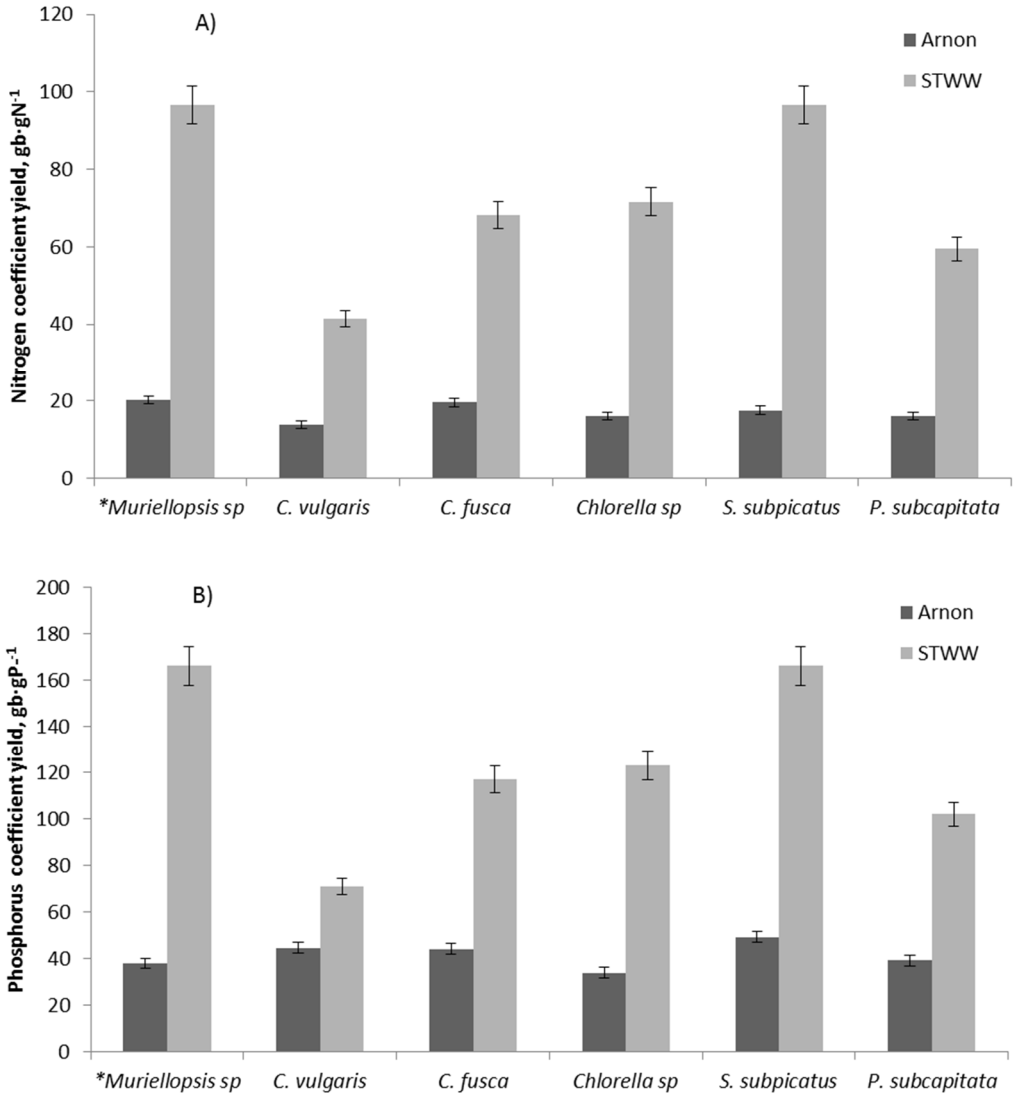


**Figure 9.-** Variation in the nitrogen and phosphorus coefficient yield as a function of the culture medium (Arnon or secondary-treated wastewater-STWW) and the strain used.

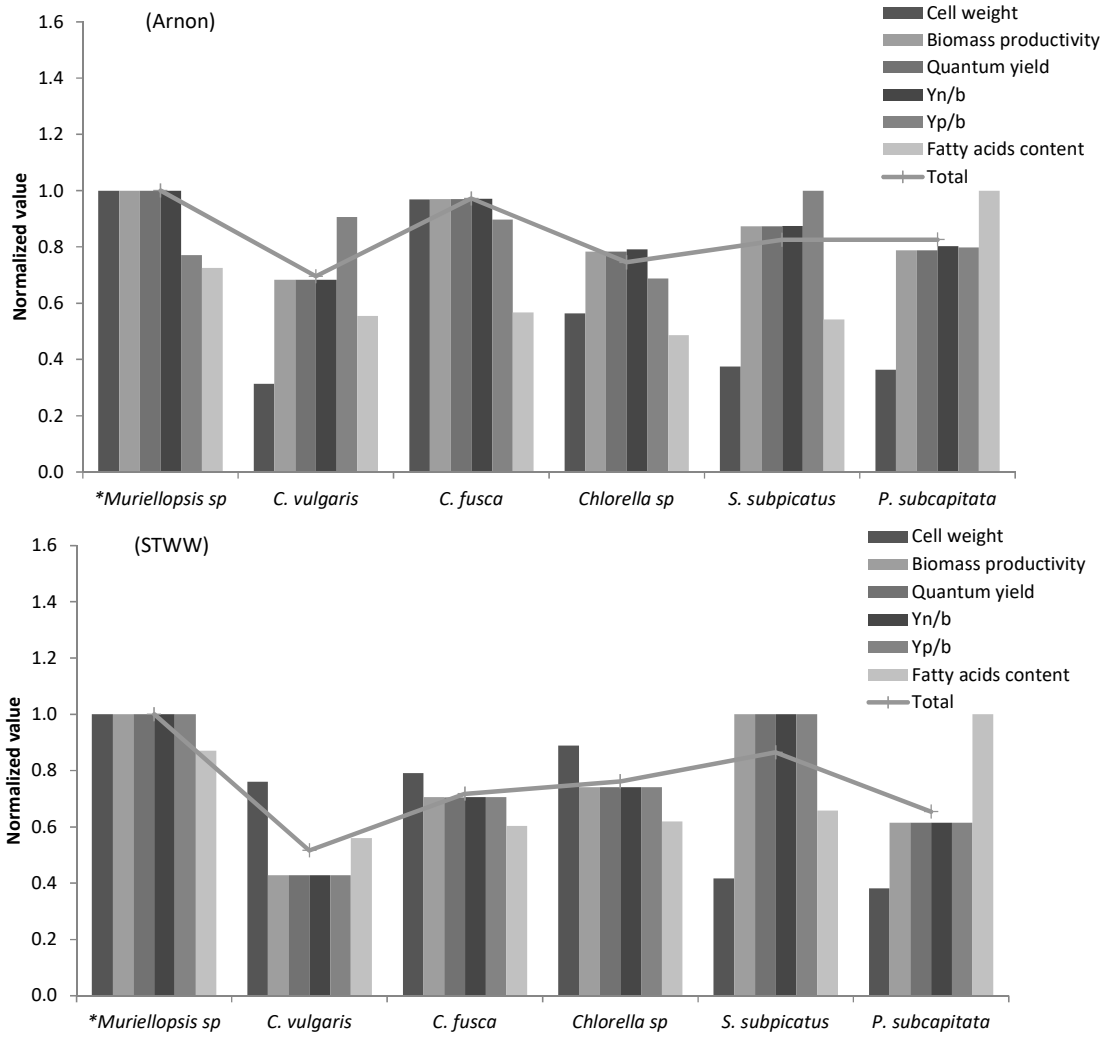


**Figure 10.-** Variation in the normalized efficiency of the selected parameters (cell weight, biomass productivity, quantum yield, nitrogen and phosphorus coefficient yield, and fatty acid content) as a function of the culture medium (Arnon or secondary-treated wastewater-STWW) and the strain used.