

## Article

# Integrated Carbonate-Based CO<sub>2</sub> Capture—Biofixation through Cyanobacteria

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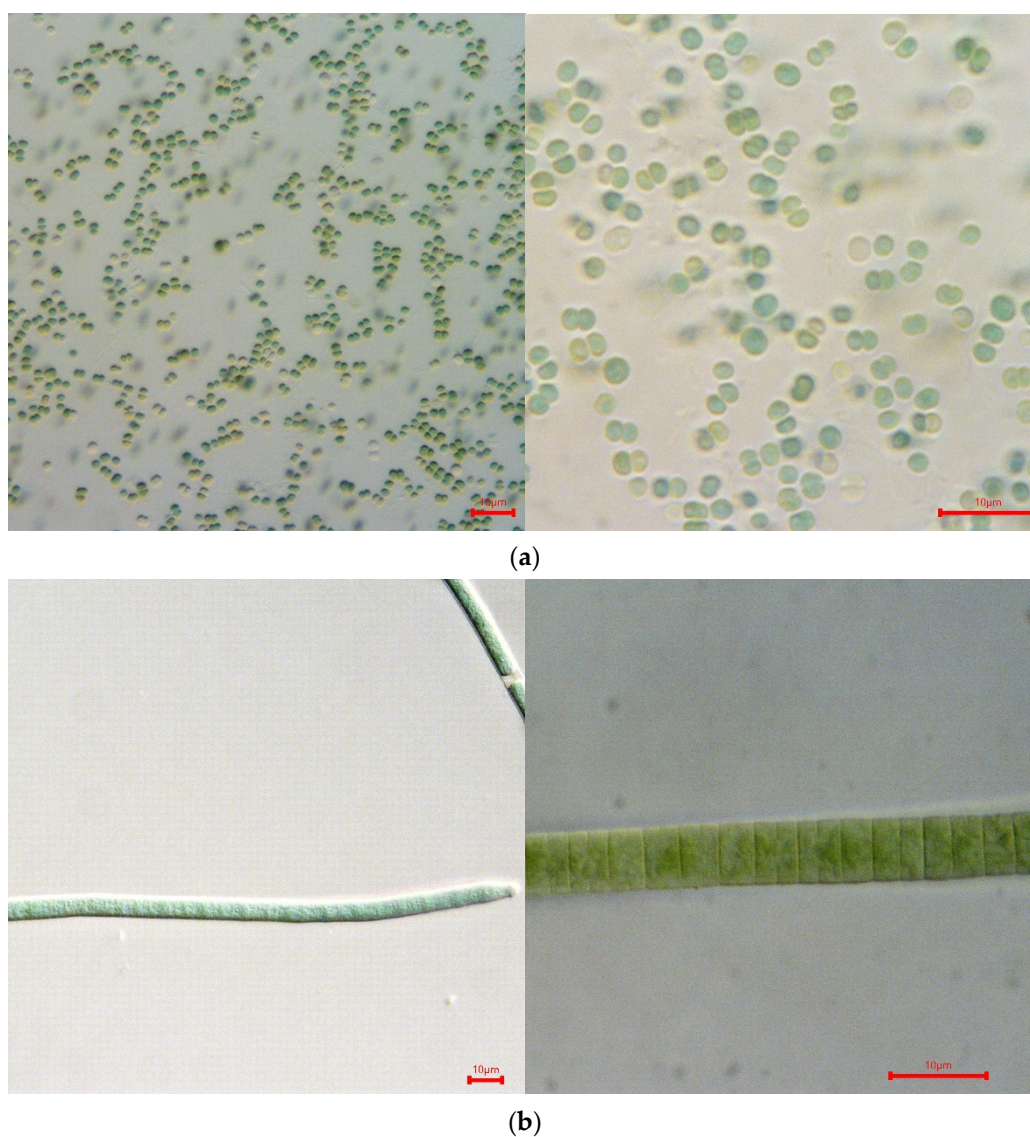
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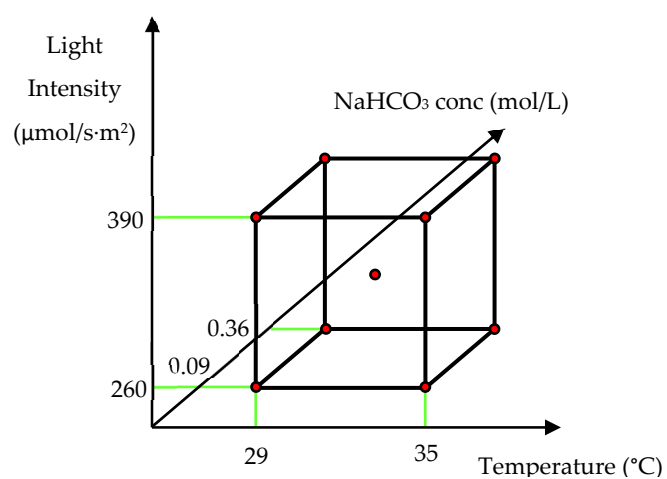
## Supplementary information

**Table S1.** Representative elemental analysis of cyanobacteria strains

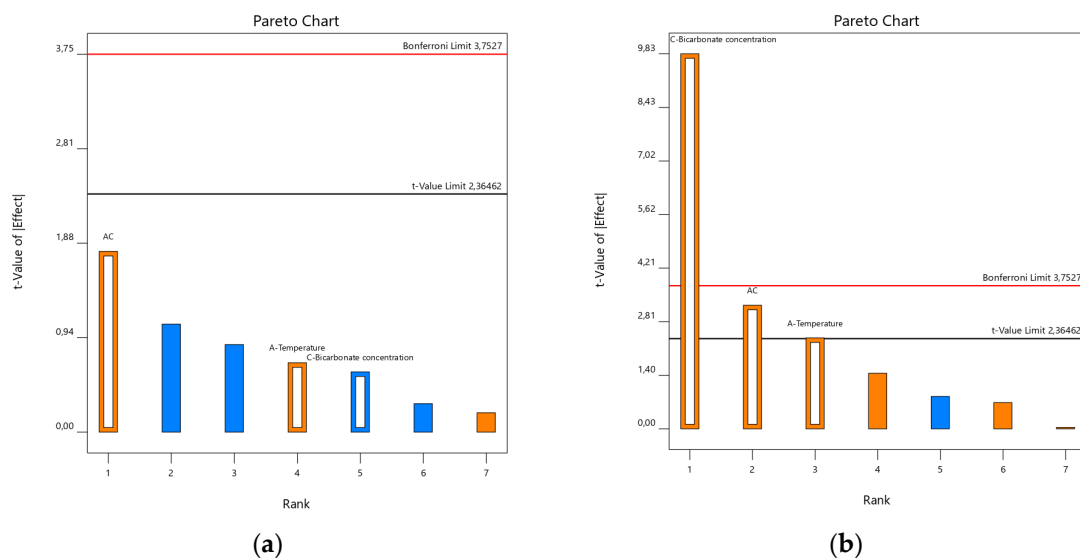
Sample name	C (wt%)	N (wt%)	H (wt%)	H (wt%)
Spr01_1	44.5	10.6	6.5	0.2
Spr01_2	44.6	10.6	6.2	0.3
Spr01_3	41.8	9.4	6.0	0.1
Spr01_4	45.3	10.5	6.8	0.2
Spr01_5	43.2	10.0	6.4	0.1
Spr01_6	44.9	10.6	6.6	0.2
Spr01_7	42.0	9.8	6.3	0.1
Spr01_8	44.3	11.1	6.4	0.1
Spr01_9	45.9	10.6	6.7	0.1
Spr01_10	44.0	10.9	6.4	0.6
Spr02_1	48.3	9.3	6.8	0.3
Spr02_2	45.7	8.4	6.6	0.2
Spr02_3	49.0	9.7	7.2	0.1
Spr02_4	48.9	10.0	7.2	0.2
Spr02_5	48.2	8.9	7.1	0.2
Spr02_6	46.5	9.1	6.8	0.1
Spr02_7	48.2	8.5	6.8	0.3
Spr02_8	47.2	9.4	7.1	0.1
Spr02_9	46.4	8.6	6.9	0.1
Spr02_10	48.6	9.8	6.8	0.4



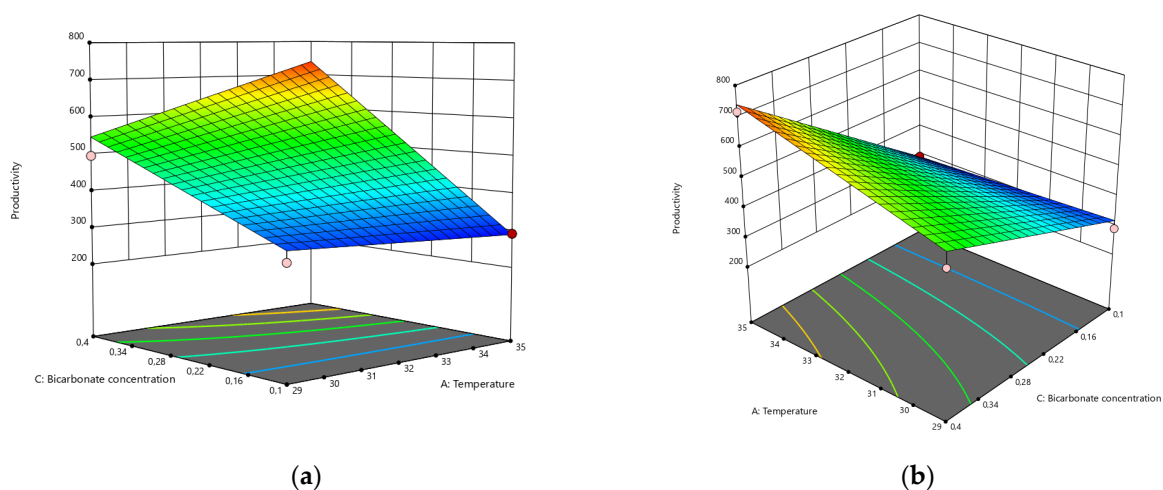
**Figure S1.** Optical microscope photographs of cell morphology for (a) Spr01, and (b) Spr02



**Figure S2.** Schematic representation of the DoE



**Figure S3.** Significativity charts relative to Spr01 (a) or Spr02 (b) growth experiments. Independent parameters that affect significantly P are those higher than the t-Value limit.



**Figure S4.** Additional representations of the influence of simultaneous variation of  $\text{NaHCO}_3$  concentration and T on P, for Spr02 strain (see also Figure 8).