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Biological activities and nitrogen and phosphorus removal during the *anabaena flos-aquae* biofilm growth using different nutrient form

Yuxuan Zhu^a, Xiaojie Tu^a, Xin-Sheng Chai^b, Qun Wei^{a,*}, Lina Guo^a

^a School of Resources, Environment and Materials, Guangxi University, Nanning 530004, China

^b State Key Laboratory of Pulp and Paper Engineering, South China University of Technology, Guangzhou 510006, China

Highlights:

- An *anabaena flos-aquae* biofilm based on elastic polyvinyl chloride carrier.
- The biological activities in the *anabaena flos-aquae* biofilm growth was very high.
- Ammonium chloride was better N sources for the *anabaena flos-aquae*.
- Dipotassium hydrogen phosphate was better P sources for the *anabaena flos-aquae*.
- The *anabaena flos-aquae* biofilm can removed the N and P contaminates effectively.

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