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Supplementary materials

- Fig. 1S. Schematic diagram for preparation of immobilized particles.
- Fig. 2S. The immobilized particle-bioreactor in daily operation.
- Fig. 38. Two step crosslinking immobilized particles before and after swelling experiment.

Fig. 4S. The CLSM images of PVA-SA(S) and PVA-SA(N) particles.

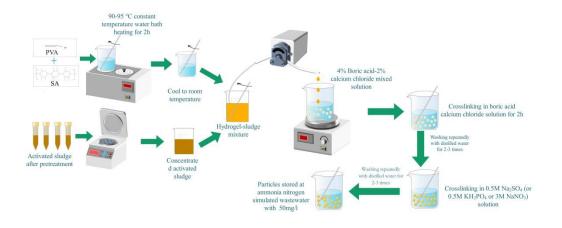


Fig. 1S. Schematic diagram for preparation of immobilized particles.

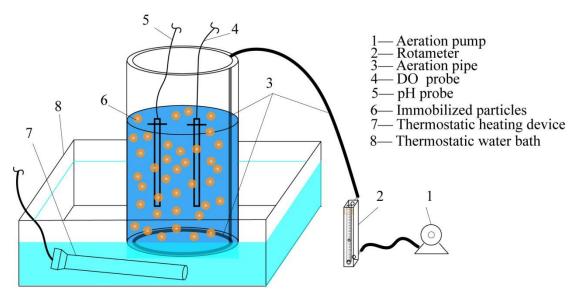


Fig. 2S. The immobilized particle-bioreactor in daily operation.

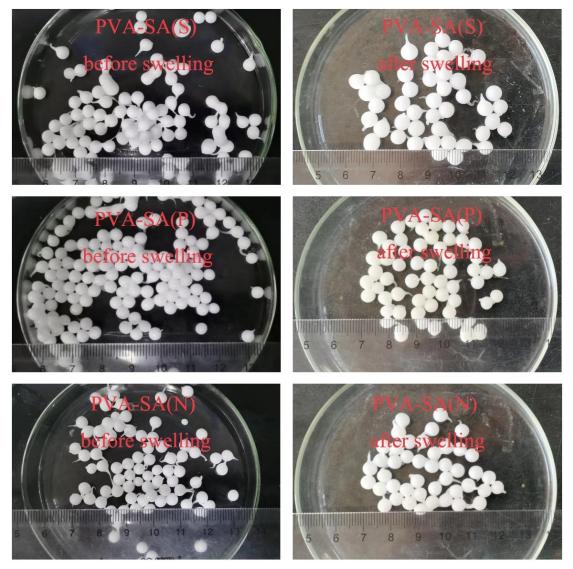


Fig. 3S. Two step crosslinking immobilized particles before and after swelling experiment.

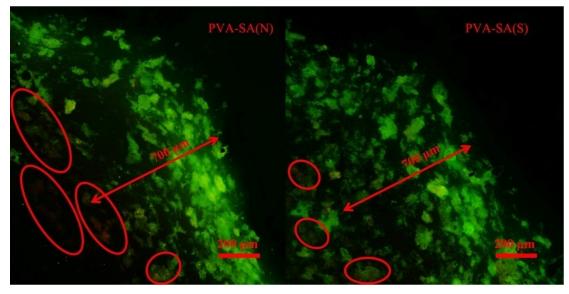


Fig. 4S. The CLSM images of PVA-SA(S) and PVA-SA(N) particles.