

## Accepted Manuscript

Title: Fabrication of high-capacity protein ion-exchangers with polymeric ion-exchange groups grafted onto micron-sized beads by atom transfer radical polymerization

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PII: S1369-703X(15)30017-6  
DOI: <http://dx.doi.org/doi:10.1016/j.bej.2015.07.010>  
Reference: BEJ 6251

To appear in: *Biochemical Engineering Journal*

Received date: 30-3-2015  
Revised date: 2-7-2015  
Accepted date: 11-7-2015

Please cite this article as: Shu Li, Yan Sun, Qing-Hong Shi, Fabrication of high-capacity protein ion-exchangers with polymeric ion-exchange groups grafted onto micron-sized beads by atom transfer radical polymerization, *Biochemical Engineering Journal* <http://dx.doi.org/10.1016/j.bej.2015.07.010>

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**Fabrication of high-capacity protein ion-exchangers with polymeric ion-exchange groups grafted onto micron-sized beads by atom transfer radical polymerization**

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Abstract

The static adsorption capacity for proteins is regarded as the benchmark for achieving high binding capacity in protein chromatography. This research provided an efficient and controlled approach for the synthesis of ion-exchange beads with high adsorption capacity via surface-initiated atom transfer radical polymerization

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