

Accepted Manuscript

Title: Performance and Mechanism of Biosorption of Nickel(II) from Aqueous Solution by Non-living *Streptomyces roseorubens* SY

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PII: S0927-7757(18)30217-6
DOI: <https://doi.org/10.1016/j.colsurfa.2018.03.040>
Reference: COLSUA 22365

To appear in: *Colloids and Surfaces A: Physicochem. Eng. Aspects*

Received date: 21-2-2018
Revised date: 15-3-2018
Accepted date: 16-3-2018

Please cite this article as: Long J, Gao X, Su M, Li H, Chen D, Zhou S, Performance and Mechanism of Biosorption of Nickel(II) from Aqueous Solution by Non-living *Streptomyces roseorubens* SY, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* (2018), <https://doi.org/10.1016/j.colsurfa.2018.03.040>

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Performance and Mechanism of Biosorption of Nickel(II) from Aqueous Solution by Non-living *Streptomyces roseorubens* SY

Jianyou Long ^{1,2,⊥}, Xiaoning Gao ^{3,⊥}, Minhua Su ^{1,2*}, Haipeng Li ¹, Diyun Chen ^{1,2}, Shuyi Zhou ¹

¹ School of Environmental Science and Engineering, Guangzhou University, Guangzhou 510006, China

² Guangdong Provincial Key Laboratory of Radionuclides Pollution Control and Resources, School of Environmental Science and Engineering, Guangzhou University, Guangzhou 510006, China

³ Guangdong Provincial Bioengineering Institute, Guangzhou 510316, China

[⊥] These authors contributed equally to this work.

Corresponding author

Dr. Minhua Su, e-mail: mhsu@gzhu.edu.cn

Highlights

1. Non-living strain *Streptomyces roseorubens* SY was first developed as a biosorbent for nickel(II) biosorption.
2. The bio-removal kinetics of nickel(II) by *Streptomyces roseorubens* SY were well described by Langmuir model..
3. The biosorption mechanism was mainly ascribed to the contributions from a number of functional

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