

Dr. NADIA ABDRABOU ABDELKHALIK SAMAK



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Date of Birth: 16-06-1985

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Google Scholar: <https://scholar.google.com/citations?user=onmQ7YMAAAAJ&hl=en>

Objective

Gaining experience in the field of Environmental Biotechnology, widen my contacts, work within a beneficial atmosphere on both career and personal wise that will allow me to use creativity, and unconventional techniques.

Education

- **Ph.D. of Biochemical Engineering**, State key laboratory of Biochemical Engineering, Institute of Process Engineering, **University of Chinese Academy of Sciences**, January, 2018.
- **Master degree of Biochemistry**, Biochemistry department, Faculty of Science, Cairo University, April, 2013.
- Academy of Scientific Research and Technology graduate “Scientists for Next Generation” program, August, 2009.
- **Postgraduate Diploma in Biochemistry**, Menoufia University, 2008, Excellent 86.3%.
- Bachelor degree of Science, Chemistry & Zoology, Menoufia University, 2006, Very Good 82.4%.

International Organization membership

Japan Society for the Promotion of Science (JSPS): Full member, Egypt office

Organization for Women in Science for the Developing World (OWSD): Full member

Arab World Association of Young Scientists (Arab WAYS): Full member

National Organization membership

Egyptian Society for Environmental Sciences: Full member

Publications and Awards

Minha Naseer, Rana Ramadan, Jianmin Xing, Nadia A. Samak* (2021). Facile green synthesis of copper oxide nanoparticles for the eradication of multidrug resistant *Klebsiella pneumonia* and *Helicobacter pylori* biofilms. *International biodeterioration and biodegradation*. Accepted. **IF: 4.5**

Tahany Mahmoud, Nadia A. Samak*, A. A. Aboulrous, M. M. Abdelhamid, Jianmin Xing, (2021). Modification Wettability and Interfacial Tension of Heavy Crude Oil by Green Bio-surfactant Based on *Bacillus licheniformis* and *Rhodococcus erythropolis* Strains under Reservoir Conditions: Microbial Enhanced Oil Recovery. *ACS Energy & Fuels*, 35, 1648-1663. **IF: 3.4**

Nadia A. Samak, Tahany Mahmoud, A. A. Aboulrous, M. M. Abdelhamid, Jianmin Xing, (2020). Enhanced Biosurfactant Production Using Developed Fed-Batch Fermentation for Effective Heavy Crude Oil Recovery. *ACS Energy & Fuels*, 34, 14560-14572. **IF: 3.4**

Nadia A. Samak, Yunpu Jia, Moustafa M. Sharshar, Tingzhen Mu, Maohua Yang, Sumit Peh, Jianmin Xing, (2020) Recent advances in biocatalysts engineering for polyethylene terephthalate plastic waste green recycling, *Environment International*, 145, 106144. **IF: 7.9**

Moustafa M SHARSHAR, Nadia A Samak, Jianmin Xing, (2020) Improving confirmed nanometric sulfur bioproduction using engineered *Thioalkalivibrio versutus*. *Bioresource Technology*, 213, 124018, DOI: 10.1016/j.biortech.2020.124018. **IF: 7.5**

Nadia A. Samak, Mohamed S. Selim, ZhifengHao, Jianmin Xing, (2020) Controlled-synthesis of alumina-graphene oxide nanocomposite coupled with DNA/ sulfide fluorophore for eco-friendly "Turn off/on" H₂S nanobiosensor. *Talanta*, 211, 120655. **IF: 5.33**

Mohamed S. Selim, Nadia A. Samak, , ZhifengHao, Jianmin Xing. (2020) Stable reduced graphene oxide decorated with Cu₂O nanocube composite as antibiofilm active material. *Materials chemistry & physics*, 239, 122300. **IF: 3.4 equal contribution**

Moustafa M SHARSHAR, Nadia A Samak, Xuemi Hao, Tingzhen Mu, Wei Zhong, Maohua Yang, Sumit Peh, Sadaf Ambreen, Jianmin Xing (2019). Enhanced growth-driven stepwise inducible expression system development in haloalkaliphilic desulfurizing *Thioalkalivibrio versutus*. *Bioresource Technology*, 288, 121486, DOI: 10.1016/j.biortech.2019.121486. **IF: 7.5**

Ke-Feng Wang, Chen Guo, Fang Ju, Nadia A. Samak, Guo-Qiang Zhuang, Chun-Zhao Liu (2018). Farnesol-induced hyperbranched morphology with short hyphae and bulbous tips of *Coriolus versicolor*. *SCIENTIFIC REPORTS*, 8, 15213, DOI:10.1038/s41598-018-33435-6. **IF: 3.99**

Nadia A. Samak, Ye qiang Tan, Kunyan Sui, Ting-ting Xia, Kefeng Wang, Chen Guo and Chunzhao Liu (2018). CotA laccase immobilized on functionalized magnetic graphene oxide nano-sheets for efficient biocatalysis. **Journal of Molecular Catalysis**, 445, 269-278. **IF: 4.2**

Nadia A. Samak, Jianhua Hu, Kefeng Wang, Chen Guo and Chunzhao Liu (2018). Development of a Novel Micro-Aerobic Cultivation Strategy for High Potential CotA Laccase Production. **Waste Biomass Valor**, 9, 369–377, DOI 10.1007/s12649-016-9824-6. **IF: 2.6**

T. A. A. Moussa, M. S. Mohamed and **N. Samak** (2014). Production and characterization of di-rhamnolipid produced by *Pseudomonas aeruginosa* TMN. **Brazilian journal of chemical engineering**, 31(4), 867 – 880. **IF: 1.6**

Nadia A. Samak, Tarek A. A. Moussa and Mervat Mohamed (2014). Environmental Clean-up of oil residue using microbial surfactants. LAMBERT Academic Publishing, **ISBN 978-3-659-29749-6. Book**

Moustafa M SHARSHAR*, **Nadia A Samak**, Jianmin Xing (2019): Harnessing natural gas biodesulfurization using cell death-induced CRISPR-cas9 system engineering in polyextremophilic autotroph *Thioalkalivbrio*. The International Conference on Green Biomanufacturing (ICGB 2019), Beijing, China. (Poster) (**The best poster award**)

Nadia A. Samak and Chunzhao Liu (2015). Effect of two different vectors on expression and purification of CotA laccase. The 8th Sino-US Joint conference of chemical engineering, Shanghai, China. (Poster)

Nadia A. Samak, Jianhua Hu and Chunzhao Liu (2015). Cloning, Expression and Purification of CotA laccase. 2015 CAS-TWAS Symposium on Green Technology for Sustainable Development (2015 Green Tech), Beijing. (Poster) (**The best poster award**)

Nadia A. Samak, Tarek A. A. Moussa and Mervat Mohamed (2013). Production and characterization of di-rhamnolipid produced by *Pseudomonas aeruginosa* TMN. International Symposium on Emerging Pollutants in Irrigation Waters: Origins, Fate, Risks, and Mitigation – Tunisia. (Poster) (**The best poster award**)

Awarded Research Projects

Member at the research project entitled “**MIXed plastics biodegradation and UPcycling using microbial communities**”, Topic: CE-BIOTEC-05-2019, ID number: 870294, project acronym: MIX-UP, which is funded by **Horizon 2020**, and the **National Natural Science Foundation of China (NSFC)**.