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International Researcher IDs

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Education Information

Doctorate, Government College University Lahore (GCUL), Chemistry and Life Sciences, Biotechnology, Pakistan 2015 - 2020

Postgraduate, Government College University Lahore (GCUL), Chemistry and Life Sciences, Microbiology, Pakistan 2012 - 2015

Undergraduate, Government College University Lahore (GCUL), Chemistry and Life Sciences, Microbiology, Pakistan 2008 - 2012

Associate Degree, Government College for Women Shakargarh, Narowal, Biology, Pakistan 2004 - 2007

Associate Degree, Government Girls High School Shakargarh, Narowal, Biology, Pakistan 2002 - 2004

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Other, Cost-effective bioscale production of Bioethanol, Bartin University, Turkey, 2019

Academic Titles / Tasks

Assistant Professor, Government College University Lahore, Pakistan., Faculty of chemistry and life sciences, Biotechnology, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Heterologous expression and characterization of a novel thermostable and alkali stable recombinant lipase enzyme from *Bacillus thuringiensis* into *E. coli* BL21(DE3) for detergent formulation**
Zafar A., Rahman Z., HAMID A., Sughra F., Makhdoom M., Fatima S., Ahmed H., Mehmood Z., Khan M., Aftab M. N.
Journal of Surfactants and Detergents, vol.27, no.3, pp.367-382, 2024 (SCI-Expanded)
- II. **Cloning, purification, and functional characterization of recombinant pullulanase from *Bacillus cereus* ATCC 14579 for improved detergent performance**
Zafar A., Masood A., Rahman Z., HAMID A., Javed M. H., Zulfiqar A., Fatima S., Makhdoom M., Aftab M. N.

Journal of Surfactants and Detergents, 2024 (SCI-Expanded)

- III. **Enzymatic hydrolysis of low temperature alkali pretreated wheat straw using immobilized β -xylanase nanoparticles**
Hamid A., Zafar A., Latif S., Peng L., Wang Y., Liaqat I., Afzal M. S., ul-Haq I., Aftab M. N.
RSC Advances, vol.13, no.2, pp.1434-1445, 2023 (SCI-Expanded)
- IV. **Heterologous expression, molecular studies and biochemical characterization of a novel alkaline esterase gene from *Bacillus thuringiensis* for detergent industry**
Zafar A., Rahman Z., Mubeen H., Makhdoom J., Tariq J., Mahjabeen N., Ali Z., Hamid A., Shafique E., Aftab M. N.
RSC Advances, vol.12, no.53, pp.34482-34495, 2022 (SCI-Expanded)
- V. **Enzymatic hydrolysis of lignocellulosic biomass using a novel, thermotolerant recombinant xylosidase enzyme from *Clostridium clariflavum*: a potential addition for biofuel industry**
Zafar A., Hamid A., Peng L., Wang Y., Aftab M. N.
RSC Advances, vol.12, no.23, pp.14917-14931, 2022 (SCI-Expanded)
- VI. **Effective utilization of magnetic nano-coupled cloned β -xylanase in saccharification process**
Hamid A., Zafar A., Liaqat I., Afzal M. S., Peng L., Rauf M. K., Ul Haq I., Ur-Rehman A., Ali S., Aftab M. N.
RSC Advances, vol.12, no.11, pp.6463-6475, 2022 (SCI-Expanded)
- VII. **Purification and characterization of a novel pullulanase enzyme from *Bacillus thuringiensis* for detergent industry Purificación y caracterización de una nueva enzima pululanasa de *Bacillus thuringiensis* para la industria de detergentes**
Zafar A., Yousaf S., Aftab M., Hamid A., Wattoo J., Masood A., Mubeen H.
Revista Mexicana de Ingeniera Quimica, vol.21, no.1, 2022 (SCI-Expanded)
- VIII. **Efficient biomass saccharification using a novel cellobiohydrolase from *Clostridium clariflavum* for utilization in biofuel industry**
Zafar A., Aftab M. N., Asif A., KARADAĞ A., Peng L., Celebioğlu H. U., Afzal M. S., Hamid A., Iqbal I.
RSC ADVANCES, vol.11, no.16, pp.9246-9261, 2021 (SCI-Expanded)
- IX. **Cloning, Purification, and Characterization of Recombinant Thermostable β -Xylanase Tnap0700 from *Thermotoga naphthophila***
Hamid A., Hamid A.
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY - PART B MOLECULAR BIOTECHNOLOGY, vol.4, no.189, pp.1-17, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **Cost-effective production of bioethanol from low-quality apples by using *Saccharomyces cerevisiae***
HAMID A.
Biologia, pp.120-125, 2021 (Non Peer-Reviewed Journal)
- II. **Saccharification of Hazelnut and Rhododendron Biomasses Using β -xylanase from *Thermotoga naphthophila***
Dinçer Ö., Karadağ A., Çelebioğlu H. U., Aftab M. N., Hamid A.
Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, pp.1321-1328, 2021 (Non Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **ONE OF THE SECOND GENERATION ENERGY SOURCES FOR AGRICULTURAL ENERGY: INDUSTRIAL HEMP**
Dinçer Şahan Ö., Hamid A., Karadağ A.
3 rd International World Energy Conference, Kayseri, Turkey, 04 December 2023, pp.20-30