

Personal Profile



Dr. ASHA SINGH

Designation : Assistant Professor

Qualification : Ph. D., M. Phil., M. Sc., NET, SLET

Specialisation : Bioremediation and Phytoremediation of
Tannery Effluent

Date of Appointment: 21-02-2017

CURRICULUM VITAE

Dr. Asha Singh

Assistant Professor in Environmental Sciences

Date of Birth: 14th July 1981

Present Address: H.No. 206, Sec D

Sainik Colony, Jammu – 180011, J&K

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Academic Profile

- **Ph.D.** entitled “**Development of Phyto-Microremediation Technology for Tannery Waste water**” from Deptt. Of Environmental Sciences, University of Jammu under the supervision of Dr. Piyush Malaviya in 2014.
- **M. Phil.** entitled “**Phytoaccumulation of Chromium and Inhibition of Growth and Photosynthetic Pigments in *Spirodela polyrrhiza* (L.) Schlied. on Exposure to Tannery Effluent**” from Deptt. Of Environmental Sciences, University of Jammu under the supervision of Dr. Piyush Malaviya in 2009.
- **M.Sc.** from Deptt. of Environmental Sciences, University of Jammu in 2003 with dissertation entitled “**Ecology of Plankton in a Paddy Field, Indira Nagar, Miran Sahib**” under the supervision of Dr. S.P.S. Dutta.
- **B.Ed.** from Govt. College of Education, University of Jammu in 2004.
- Qualified **NET** and **SLET**

Teaching and Research Experience

- Working as an Assistant Professor in Environmental Sciences in Higher Education Department, J&K, since February 2017.
 - SPPND GDC Samba (16th Dec 2023-till date)
 - GDC Bishnah (12th March 2020-15th Dec 2023)
 - GDC Majalta (29th March 2017-11th March 2020)
 - GGM Science College (23rd Feb 2017-27th March 2017)
- Worked in School Education Department from December 2012 to February 2017 as 10+2 Lecturer (Environmental Sciences).
- Worked as Junior Research Fellow (JRF) and Senior Research Fellow (SRF) in a DBT Funded Research Project in Deptt. of Environmental Sciences, University of Jammu from April 2009 to April 2012.
- Taught Environmental Sciences as a Lecturer on academic arrangement in different Govt. Degree Colleges of Jammu Division for ~3 years from session 2004-2005 to 2007-2009.

- **Date of Appointment in Higher Education Department:** Appointed vide Govt. Order No. 114-HE Of 2017; Dated: 21-02-2017 in the subject of Environmental Sciences.
- **Date of Joining in Higher Education Department:** Joined GGM Science College on 23-02-2017
- **Date of completion of Probation:** Probation confirmed vide Govt. Order No: 269-JK (HE) of 2020

Publications

International Refereed Journals

1. Kumari, R., **Singh, A.**, Sharma, R., Malaviya, P., (2024). “Conversion of food waste into energy and value-added products: a review”. Environmental Chemistry Letters, <https://doi.org/10.1007/s10311-024-01742-2>.
Publisher Name: Springer
Impact Factor: 15.7
2. **Singh, A.**, Sharma, R., Pant, D., Malaviya, P., (2021). “Engineered algal biochar for contaminant remediation and electrochemical applications”. Science of The total Environment, 774: 145676.
Publisher Name: Elsevier
Impact Factor: 10.753
3. Malaviya, A., **Singh, A.**, and Anderson, T.A., (2020). “Aquatic Phytoremediation strategies for chromium removal”. Reviews in Environmental Science and Bio/Technology, 19, 897-944.
Publisher Name: Springer
Impact Factor: 14.4
4. **Singh, A.**, Malaviya, P., (2019). Chromium phytoaccumulation and its impact on growth and photosynthetic pigments of *Spirodela polyrrhiza* (L.) Schleid. On exposure to tannery effluent. Environmental Sustainability, 2, 157-166.
Publisher Name: Springer
5. **Singh, A.**, Vyas, D., and Malaviya, P., (2016). “Two Stage Phyto-Microremediation of Tannery Effluent by *Spirodela polyrrhiza* (L.) Schleid. and chromium resistant bacteria”. Bioresource Technology, 216, 883-893.
Publisher Name: Elsevier
Impact Factor: 11.889
6. Malaviya, P., and **Singh, A.**, (2016). “Bioremediation of Chromium Solutions and Chromium Containing Wastewaters”. Critical Reviews in Microbiology, 42, 607-633.
Publisher Name: Taylor & Francis
Impact Factor: 7.391
7. Malaviya, P., and **Singh, A.**, (2012). “Constructed Wetlands for Management of Urban Storm Water Runoff”. Critical Reviews in Environmental Science and Technology, 42, 2153-2214.
Publisher Name: Taylor & Francis

Impact Factor: 11.75

8. Malaviya, P., and **Singh. A.**, (2012). “Phytoremediation Strategies For Remediation Of Uranium Contaminated Environments”. *Critical Reviews in Environmental Science and Technology*, 42, 2575-2647.

Publisher Name: Taylor & Francis

Impact Factor: 11.75

9. Malaviya, P., and **Singh. A.**, (2011). “Physicochemical Technologies for Remediation of Chromium Containing Waters and Wastewaters”. *Critical Reviews in Environmental Science and Technology*, 41, 1111-1172.

Publisher Name: Taylor & Francis

Impact Factor: 11.75

Indian Refereed Journals

1. **Singh. A.**, and Malaviya, P., (2015). “Optimization of Culture Parameters for Tannery Effluent Bioremediation by *Bacillus galactosidilyticus* APBS5-3”. *Journal of Environmental Biology*, 36, 1149-1152.

Impact Factor: 0.56

2. **Singh. A.**, and Malaviya, P., (2013). “Phytotoxic Effect of Chrome Liquor on Growth and Chlorophyll Content of *Spirodela polyrrhiza* L. Scheid.”. *Journal of Applied and Natural Sciences*, 5, 165-170.

Books

1. Chromium Hyperaccumulation: Impact on Growth and Photosynthetic Pigments of *Spirodela polyrrhiza* (L.) Schleid., LAPLAMBERT Academic Publishing, Germany, 2011

Asha Singh and Piyush Malaviya

ISBN-10: 3845444037

ISBN-13: 978-3845444031

Paper Presentation

- Presented a paper entitled “**Phyto-microremediation of tannery effluent by *Spirodela polyrrhiza* (L.) Schleid. and bacterial consortium**” in 14th JK Science Congress held on December 20-22, 2019.
- Presented a paper entitled “**Tannery Effluent Bioremediation by Cr(VI) Resistant Bacterial Strain APBS5-3**”. 101st Indian Science Congress, Feb 03-07, 2014 held at University of Jammu.
- Presented a paper entitled “**Bioremediation of tannery effluent by Cr(VI) resistant bacterial strain APB S1-1**” in National Conference on Environmental Issues, Concerns and Solutions, March 24-25, 2014 held at University of Jammu and got “**Best Oral Presentation Award**”.

- Presented a paper entitled “**Cr(VI) resistance of bacterial strains isolated from contaminated sites**” in 7th J&K State Science Congress, 2011 and got “**Best Oral Presentation Award**”.

Presentations as a Resource Person

- Delivered a lecture on “**Global Environmental Challenges of 21st Century**” on 22nd April 2022 (Earth Day) in GGM Science College, Jammu.
- Delivered a lecture on “**Environmental Challenges of 21st Century**” on 5th June 2021 (World Environment Day) in GDC Majalta, Udhampur.

Details of Career Enhancement Programmes

- Attended a two week Multidisciplinary Refresher Course conducted by UGC-HRDC, University of Jammu in “**Environmental Sciences**” on 28th Dec. 2022 and 10th Jan. 2023.
- Attended a two week Multidisciplinary Refresher Course conducted by UGC-HRDC, University of Jammu on “**Disaster Management**” on 15th Feb. 2021 and 28th Feb. 2021.
- Attended a four week Induction/Orientation Programme conducted by Teaching Learning Centre, Ramanujam College, University of Delhi from 1st September to 30th September 2020.
- Attended a FDP on “**Creativity, Innovation, and Institution Building**” organized by Govt. College of Education and Grand Academic Portal, Jammu w.e.f., 1-10 July, 2020.
- Attended One Day Workshop on “**Biofuels and Green Technologies**” organized by Central University of Jammu on 8th March 2022.
- Participated in a Webinar on “**Submission of annual report for E-Waste**” conducted by JKPC on 24th March 2022.
- Attended a webinar on “**E content Development**” conducted by GGM Science College, Jammu on 16th August, 2020.
- Attended a national webinar on “**Holistic Mental & Emotional Well Being**” conducted by Psychological Cum Career Counselling & Placement Cell, Higher Education Department, Govt of J&K and Government College for Women Parade Ground Jammu on 30th July 2020.
- Attended two days Workshop on “**Disaster Management Preparedness**” organized by G.G.M. Science College, Jammu in collaboration with Divisional Disaster Management Authority, Jammu on 16th and 17th March 2018.
- Attended two days Workshop on “**Environmental Impact Assessment**” organized by Department of Environmental Sciences, University of Jammu, Jammu on 1st and 2nd Feb. 2018.
- Attended General Orientation Course (GOC) in Environmental Sciences organised by Faculty Induction Development Cell, Central University of Jammu from 2nd March-27th March 2017.