

Patents

- Prof. Anjana Pandey, Saumya Srivastava, Vandita. Efficacy of Herbal Decoction Against Covid-19 Infections. Patent Application No.: 202111000550; dated 06.01.2021. **(Patent filed)**
- Anjana Pandey, Neha Yadav, Saumya Srivastava and Ashutosh Pandey. A novel method of GNP synthesis and its application for heavy metals (Cr^{3+} , Cd^{2+} and Hg^{2+}) detection through Electrochemical analyzer. Patent Application No.: 201911043605; dated 26.10.2019. **(Patent filed)**
- Anjana Pandey, Neha Singh and Ashutosh Pandey. A process optimization using *Bacillus licheniformis* lab isolate for conversion of corn starch to near theoretical yield of biohydrogen production. Patent Application No.: 201711023786; dated 06.07.2017. **(Published)**
- Anjana Pandey and Ashutosh Pandey. Optical biosensor and a method of preparation and its application there of for detection of Salmonella typhi. Patent Application No.: 201611019611; dated 07.06.2016. **(Published)**

Research Article

- Pandey, A., Sinha, P. and Pandey, A., 2021. Hydrogen production by sequential dark and photofermentation using wet biomass hydrolysate of *Spirulina platensis*: Response surface methodological approach. *International Journal of Hydrogen Energy*, 46(10), pp.7137-7146. **IF [5.816]**
- Srivastava, S. and Pandey, A., 2021. Syngonium podophyllum Leaf Extract Mediated Synthesis and Characterization of Gold Nanoparticles for Biosensing Potential: A Sustainable Approach. *Current Nanoscience*, 17(1), pp.81-89. **IF [1.824]**
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Book Chapters

- Anand, V. and Pandey, A. 2021. Molecular biological techniques used in environmental engineering: current prospects and challenges. In Maulin P. Shah and Susana Rodriguez- Couto (Eds.), *Wastewater Treatment Reactors* (509-536). Elsevier. <https://doi.org/10.1016/B978-0-12-823991-9.00011-3>
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Proceedings in conferences

- Shamim, M.Z. and Pandey, A. (2017). Selection of high yielding and arsenic tolerant black gram (*Vigna mungo* L.) genotypes in India. International conference on Study of Nanomaterials and Scientific development, Gwalior.5(Spl.): 231-236
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List of selected Abstracts Published in Conference Proceedings (2013 onwards):

Sl No	Conference Name	Date	Place	Abstract/Paper Title	Other Authors
1	Biotechnological Interventions for Societal Development	21 - 23 February 2020	Motilal Nehru National Institute of Technology Allahabad	Process development for rapid electrochemical sensing of organic textile dye methyl red	Saumya Srivastava, Anjana Pandey
2	Biotechnological Interventions for Societal Development	21 -23 February 2020	Motilal Nehru National Institute of Technology Allahabad	Evaluation of <i>Bacillus licheniformis</i> AP1 remediating abilities for Cr (VI) and Pb (II)	Vandita, Saumya Srivastava, Anjana Pandey
3	S3IC 2019	3-5 April 2019	Munich	Nano-scale fluoro-biosensor for diagnosing typhoid	Ashutosh Pandey
4	S3IC 2019	3-5 April 2019	Munich	Methyl parathion sensing using nanozymatic activity of gold nanoclusters	Ashutosh Pandey, Saumya Srivastava
5	International conference on Environment, Health and Industrial Biotechnology (Biosangam-2013)	November 21-23, 2013	Motilal Nehru National Institute of Technology Allahabad	Isolation of H ₂ producing strain from municipal sludge and evaluation of its potential for Biohydrogen Production exploiting various carbohydrate sources	Pallavi Sinha

6	International conference on Environment, Health and Industrial Biotechnology (Biosangam-2013)	November 21-23, 2013	Motilal Nehru National Institute of Technology Allahabad	Photosynthetic Antibacterial performance of TiO ₂ and Ag doped TiO ₂ against <i>S. aureus</i> , <i>P. aeruginosa</i> and <i>E.coli</i>	Kiran Gupta, R.P. Singh, Ashutosh Pandey
7	International conference on Environment, Health and Industrial Biotechnology (Biosangam-2013)	November 21-23, 2013	Motilal Nehru National Institute of Technology Allahabad	Enhanced conversion of starch into hydrogen gas by sequential two stage fermentation	Suman Dolly, Pallavi Sinha
8	International conference on Environment, Health and Industrial Biotechnology (Biosangam-2013)	November 21-23, 2013	Motilal Nehru National Institute of Technology Allahabad	Reactive oxygen species: Their generation in abiotic stress tolerance mechanism in plants	M.Z. Shamim
9	International conference on Environment, Health and Industrial Biotechnology (Biosangam-2013)	November 21-23, 2013	Motilal Nehru National Institute of Technology Allahabad	Construction and operation of membrane less single chambered microbial fuel cell	Shweta Singh, C.K. Dwivedi
10	Indo-US International Congress Cum Workshop on IPR	January 29 th -31 st , 2014	Amity University, Noida, India.	Importance of protection of plant varieties and farmers right (PPV & FR) act in India	M.Z. Shamim
11	World Congress on Agriculture, Forestry, Horticulture, Aquaculture, Animal sciences, Food technology, biodiversity and climate change: sustainable approaches (AFHAFBC-2014)	December- 6 th -7 th , 2014	Jawaharlal Nehru University (JNU), New Delhi, India	Identification of yellow mosaic virus (YMV) resistant black gram (<i>Vigna mungo</i> L.) genotypes for cultivation in northern India	M.Z. Shamim
12	National Conference on Bioinformatics Panorama in Agriculture and Health (NCBPAH 2015)	October- 05 – 06, 2015	Sam Higginbottom Institute of Agriculture, Technology & Sciences (SHIATS), Allahabad, India.	Analysis of grain yield and its contributing components in Black gram (<i>Vigna mungo</i> (L.) Hepper)	M.Z. Shamim
13	3 rd International Plant Physiology Congress (IPPCongress-2015)	December- 11-14, 2015	Jawaharlal Nehru New Delhi, India.	Arsenic induced phytotoxicity in blackgram (<i>Vigna mungo</i> L.) during early growth stage	M.Z. Shamim
14	International conference on Translational Biotechnology	February 4- 6, 2016	Motilal Nehru National Institute of Technology Allahabad	Bandgap modulated TiO ₂ Nanoparticles: synthesis, characterization and photocatalytic degradation study of methylene blue	Kiran Gupta, Ashutosh Pandey
15	International conference on Translational Biotechnology	February 4- 6, 2016	Motilal Nehru National Institute of Technology Allahabad	Process parameter optimization and enhancement of photo-biohydrogen production by mixed culture of <i>Rhodobacter sphaeroides</i> NMBL-02 and <i>E.coli</i> . NMBL-04 using Fe-nanoparticle	Suman Dolly

16	International conference on Translational Biotechnology	February 4-6, 2016	Motilal Nehru National Institute of Technology Allahabad	Identification of arsenic tolerant genotypes and parental lines for grain yield improvement in black gram (<i>Vigna mungo</i> L.)	M.Z. Shamim
17	International conference on Translational Biotechnology	February 4-6, 2016	Motilal Nehru National Institute of Technology Allahabad	Comparison of arsenic toxicity induced lipid peroxidation in different tissues of Urd bean (<i>Vigna mungo</i> L) seedlings	M.Z. Shamim
18	International conference on Translational Biotechnology	February 4-6, 2016	Motilal Nehru National Institute of Technology Allahabad	Lung cancer: analysis of biomarkers and methods of diagnostics and prognostic value	Soumya Yadav, S.S. Divyaravali
19	International conference on Translational Biotechnology	February 4-6, 2016	Motilal Nehru National Institute of Technology Allahabad	Whole CELL SELEX technology and its application	Neha Singh
20	International conference on Translational Biotechnology	February 4-6, 2016	Motilal Nehru National Institute of Technology Allahabad	Fabrication of optical biosensor for food pathogen detection	Pranjali Yadav
21	International conference on Translational Biotechnology	February 4-6, 2016	Motilal Nehru National Institute of Technology Allahabad	Effect of Ni and Fe on bio hydrogen production from <i>Bacillus Licheniformis</i> using kitchen waste as a carbon source	Ashish Kumar
22	International conference on Translational Biotechnology	February 4-6, 2016	Motilal Nehru National Institute of Technology Allahabad	Response surface methodological optimization of process parameters using Box-Behnken design on biohydrogen production from starch by <i>Bacillus firmus</i> NMBL-03	Suman Dolly, Pallavi Sinha
23	International conference on Translational Biotechnology	February 4-6, 2016	Motilal Nehru National Institute of Technology Allahabad	Role of nifH and nifD genes in photofermentative hydrogen production by <i>Rhodobacter sphaeroides</i>	Deepti Semwal
24	International conference on Translational Biotechnology	February 4-6, 2016	Motilal Nehru National Institute of Technology Allahabad	Biological waste as potential substrate for biohydrogen production	Niharika Gupta
25	A National Conference on Recent Trends and Advances in biotechnology (biokumbh-2016)	Feb 20-21, 2016	University of Allahabad	Role of Nanobiotechnology in disease diagnosis and drug delivery	Anjana Pandey
26	Mission Innovation; International Conference on Sustainable Biofuels 2018	February 26-27, 2018	Department of Biotechnology, GoI, New Delhi	A joint venture of Mission Innovation & Biofuture Platform	Anjana Pandey

