

Publications (Attachment-IV)

2017

- 1) Tribedi, P., & Dey, S. (2017). Pre-oxidation of low-density polyethylene (LDPE) by ultraviolet light (UV) promotes enhanced degradation of LDPE in soil. *Environmental monitoring and assessment*, 189(12), 624.
- 2) Goswami, M., Bhattacharyya, P., & Tribedi, P. (2017). Addition of Rubber to soil damages the functional diversity of soil. *3 Biotech*, 7(3), 173.
- 3) Chakraborty PD. (2017) "Challenges of Democracy Today" on 'Legal News &Views' Vol. 30 No.12; January 2017; ISSN 2277-5323; pg.6.

2018

- 1) Banerjee T.& Samanta A. (2018). Improvement over Traditional Brewing Techniques for Production of Bioethanol from Mahua Flowers (*Madhuca indica*). *International Journal of Engineering, Science and Mathematics*, 7, 12-21.
- 2) Gupta, S., Kundu, S., Pati, P., & Ahmed, M. (2018). Torsional waves in fluid saturated porous layer clamped between two anisotropic media. *Geomechanics and Engineering*, 15(1), 645657.
- 3) Bhattacharyya, P., Agarwal, B., Goswami, M., Maiti, D., Baruah, S., & Tribedi, P. (2018). Zinc oxide nanoparticle inhibits the biofilm formation of *Streptococcus pneumoniae*. *Antonie Van Leeuwenhoek*, 111(1), 89-99.
- 4) Chakraborty, P., Joardar, S., Ray, S., Biswas, P., Maiti, D., & Tribedi, P. (2018). 3, 6-Di (pyridin-2-yl)-1, 2, 4, 5-tetrazine (pytz)-capped silver nanoparticles (TzAgNPs) inhibit biofilm formation of *Pseudomonas aeruginosa*: a potential approach toward breaking the wall of biofilm through reactive oxygen species (ROS) generation. *Folia microbiologica*, 63(6), 763772.
- 5) Chakraborty, P., Daware, A. V., Kumari, M., Chatterjee, A., Bhattacharyya, D., Mitra, G., & Tribedi, P. (2018). Free tryptophan residues inhibit quorum sensing of *Pseudomonas aeruginosa*: a potential approach to inhibit the development of microbial biofilm. *Archives of microbiology*, 200(10), 1419-1425.

- 6) Dey, S., & Tribedi, P. (2018). Microbial functional diversity plays an important role in the degradation of poly hydroxyl butyrate (PHB) in soil. *3 Biotech*, 8(3), 171.
- 7) Paramita Dhar Chakraborty and Dr. Partha Pratim Paul., (2018) Doctrine of Precedent and it's Departing through Curative Jurisdiction in India: An Analysis., *Indian Bar Review.*, 2018., 136
- 8) Halder A, Paul P (2018); "An Approach of Solutions for a Vulnerable Website through Penetration Testing"; Paper ID: JETIR1812704; Registration ID: JETIR193699; Accepted and Publication in UGC Recognized Journal, "International Journal of Emerging Technologies and Innovative Research (JETIR)"; 5; 12: 18-29

2019

- 1) Ahmed, M., & Verma, A. K. (2019). Analysis of Rayleigh Waves in Micropolar Thermoelastic Solid over a Dual-Phase-Lag Semi-Infinite Thermoelastic Substrate under Interfacial Imperfections. *International Journal of Geomechanics*, 19(5), 04019038.
- 2) Gupta, S., Ahmed, M., & Misra, J. C. (2019). Effects of periodic corrugated boundary surfaces on plane SH-waves in fiber-reinforced medium over a semi-infinite micropolar solid under the action of magnetic field. *Mechanics Research Communications*, 95, 35-44.
- 3) "Effect of Dilution of Volume Fraction on Exchange Bias Effect in Ni-NiO Core-Shell Nanostructure" by S Goswami; M Chakraborty; D De is accepted at 64th DAE Solid State Physics Symposium, 2019. Full paper will be published in AIP Conference Proceedings (ISSN: 0094-243X (print); 1551-7616 (web))
- 4) Chakraborty, P., & Tribedi, P. (2019). Functional diversity performs a key role in the isolation of nitrogen-fixing and phosphate-solubilizing bacteria from soil. *Folia microbiologica*, 64(3), 461-470.
- 5) Chakraborty, P., Dastidar, D. G., Paul, P., Dutta, S., Basu, D., Sharma, S. R., ... & Tribedi, P. (2019). Inhibition of biofilm formation of *Pseudomonas aeruginosa* by caffeine: a potential approach for sustainable management of biofilm. *Archives of microbiology*, 1-13.
- 6) Chakraborty, P., Sarker, R. K., Roy, R., Ghosh, A., Maiti, D., & Tribedi, P. (2019). Bioaugmentation of soil with *Enterobacter cloacae* AKS7 enhances soil nitrogen content and boosts soil microbial functional-diversity. *3 Biotech*, 9(7), 253.
- 7) Das, D., Bhattacharya, S., & Sarkar, B. (2019) Material selection in engineering design based on nearest neighbor search under uncertainty: A spatial approach by harmonizing the

Euclidean and Taxicab geometry. *Artificial Intelligence for Engineering Design, Analysis and Manufacturing*, 33(3): 238-246.

- 8) Das, D., Bhattacharya, S., & Sarkar, B. (2019). Material selection in product design under risk and uncertainty introducing the conditional logit in the MADM framework. *Journal of Industrial and Production Engineering*, 36(7): 440-450.
- 9) Shaw RN, Walde P and Ghosh A (2019) "Effects of Solar Irradiance on Load Sharing of Integrated Photovoltaic System with IEEE Standard Bus Network", *International Journal of Engineering and Advanced Technology*, Volume-9 Issue-1, October 2019.
- 10) Shaw RN, Walde P and Ghosh A (2019) "A New Model to Enhance the Power and Performances of 4x4 PV Arrays with Puzzle Shade Dispersion", *International Journal of Innovative Technology and Exploring Engineering*, 2019 Volume-8 Issue-12.

2020

- 1) Gupta, S., Chatterjee, A., Singh, M. K., & Singh, V. P. (2020). Groundwater contamination in mega cities with finite sources. *Journal of Earth System Science*, 129(1), 1.
- 2) Kumar, R., Chatterjee, A., Singh, M. K., & Singh, V. P. (2020). Study of Solute Dispersion with Source/Sink Impact in Semi-Infinite Porous Medium. *Pollution*, 6(1), 87-98.
- 3) Bhattacharyya, C., Roy, R., Tribedi, P., Ghosh, A., & Ghosh, A. (2020). Biofertilizers as substitute to commercial agrochemicals. In *Agrochemicals Detection, Treatment and Remediation* (pp. 263-290). Butterworth-Heinemann. (Book Chapter published)
- 4) Rabindra Nath Shaw, Pratima Walde and Ankush Ghosh, "Enhancement of Power and Performance of 9x4 PV Arrays by a novel arrangement with shade dispersion", *Test Engineering and management*, Volume 82, pp: 13136 – 13146, February 2020