
Publications from thesis

- **S.R. Geed**, M.K. Kureel, A.K. Shukla, R.S. Singh & B.N. Rai, Biodegradation of malathion and evaluation of kinetic parameters using three bacterial species, *Resource-Efficient Technologies*, (2016) S3-S10.
- **S.R. Geed**, M.K. Kureel, B.S. Giri, R.S. Singh & B.N. Rai, Performance evaluation of Malathion biodegradation in batch and continuous packed bed bioreactor (PBBR), *Bioresource Technology*, 227 (2017) 56-65.
- **S.R. Geed**, B.S. Shrirame, R.S. Singh & B.N. Rai, Assessment of pesticides removal using two-stage Integrated Aerobic Treatment Plant (IATP) by *Bacillus* sp. isolated from agricultural field, *Bioresource Technology*, 242 (2017) 45–54.
- **Sachin Ramesh Rao Geed**; Avinash Raj; Manish Kumar Kureel; Vijay Pratap Singh; Sumit Kumar; Balendu Shekhar Giri; Bindra Nath Rai & Ram Saran Singh, Studies on removal of Atrazine by coupling Fenton reaction with bioreactor in series, *Indian Journal Experimental Biology*, 55 (2017) 498-505.
- **S.R. Geed**, S. Prasad, M.K. Kureel; R.S. Singh & B.N. Rai, Biodegradation of wastewater in alternating aerobic-anoxic lab scale pilot plant by *Alcaligenes* sp. S 3 isolated from agricultural field. *Journal of environmental management*, 214 (2018) 408-415.
- **S.R. Geed**; M.K. Kureel, S. Prasad R.S. Singh & B.N. Rai, Novel study on biodegradation of malathion and investigation of mass transfer correlation using alginate beads immobilized *Bacillus* sp. S4 in bioreactor, *Journal of Environmental Chemical Engineering* 6 (2018) 3444-3450.

Literature communicated

- **S. R. Geed**; M.K.Kureel; R.S.Singh; B.N.Rai, Novel study on investigation of bacterial efficacy, kinetics and protein for Malathion biodegradation, *Process Safety and Environmental Protection*-Communicated (Manuscript ID: PSEP-D-18-00560).
- **S. R. Geed**; M.K.Kureel; A. Raj; A Tagde; H. Srivastava; R.S.Singh; B.N.Rai, Treatment of wastewater containing pesticides methyl parathion in aerobic bioreactor, *Environmental Chemistry Letters*-Communicated (Manuscript ID: TSRM-BW002).

Conference/Workshop/ Paper presented

- Oral presentation in 4th International Conference on Updating Food Technology: A Challenge Towards Public Health Nutrition ICUFT-**2014** held at JNU Delhi.
- Poster presentation in International Conference on Current Trends in Biotechnology (ICCB) **2016** held at VIT Vellore.
- Oral presentation in International Conference Technoscape **2016** held at VIT Vellore.
- Poster presentation in International Conference on Emerging Trends in Biotechnology for Waste Conversion (ETBWC) **2017** held at NEERI Nagpur.
- One week Short term course on Quality Improvement Programme 10th to 14th March 2018 held at MITS Gwalior.
- One week induction Programme TEQIP –III 25th to 29th January 2018 held at IIT Hyderabad.
- Short Term Study Course on Water Corporation RIO+21 IYWC India program IARC Center for Science & Culture.

Other publication during PhD work

- V.C. Padmanabam, **Sachin Ramesh Rao Geed**, Anant Achary, R.S. Singh, Kinetic studies on degradation of Reactive Red 120 dye in immobilized packed bed reactor by *Bacillus cohnii* RAPT1, *Bioresource Technology*, 213 (**2016**) 39-43.
- M.K. Kureel, **S.R. Geed**, B.S. Giri, A.K. Shukla, B.N. Rai, R.S. Singh, Removal of aqueous benzene in the immobilized batch and continuous packed bed bioreactor by isolated *Bacillus* sp. M1, *Resource-Efficient Technologies*, (**2016**)S87 –S95 .
- M.K. Kureel, **S.R. Geed**, B.S. Giri, B.N. Rai, R.S. Singh, Biodegradation and kinetic study of benzene in bioreactor packed with PUF and alginate beads and immobilized with *Bacillus* sp. M3, *Bioresource Technology*, 242 (**2017**) 92–100
- M. K. Kureel; **S. R. Geed**; B. N. Rai; R. S. Singh Novel investigation of the performance of continuous packed bed bioreactor (CPBBR) by isolated *Bacillus* sp. M₄ and proteomic study *Bioresource Technology*, 266 (**2018**) 335-342.
- Kiran Singh, B.S. Giri, Amrita Sahi, **S.R. Geed**, M.K. Kureel, Sanjay Singh, S.K. Dubey, B.N. Rai, Surendra Kumar, S.N. Upadhyay & R.S. Singh, *Bioresource Technology*, 242 (**2017**) 351–358.

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- Vikash Bharti, Amrita Shahi, **S R Geed**, M K Kureel, B N Rai, Surendra Kumar, B.S. Giri & R.S. Singh Biodegradation of reactive orange 16 dye in the packed bed bioreactor using seeds of Ashoka and Casuarina as packing media, *Indian Journal of Biotechnology*, 16 (2017) 216-221.
 - Shirame, B.S., **Geed, S.R.**, Raj, A., Prasad, S., Rai, M.K., Singh, A.K., Singh, R.S. and Rai, B.N., Optimization of Supercritical Extraction of Coriander (*Coriandrum sativum* L.) Seed and Characterization of Essential Ingredients. *Journal of Essential Oil Bearing Plants*, (2018) 1-15.
 - Ravi Kumar Sonwani, Balendu Shekhar Giri, **Sachin Ramesh Rao Geed**, Anjney Sharma, Ram Sharan Singh, Birendra Nath Rai, Combination of UV–Fenton oxidation process with biological technique for treatment of PAHs using *Pseudomonas pseudoalcaligenes* NRSS3 isolated from petroleum contaminated site, *Indian Journal Experimental Biology*, 56 (2018) 460-469