## Dr.A.N.Ghadge

## **Journals**

- 1. Ghadge, A. N., Keith S., & Ghangrekar, M. M. (2016). Maximum anode chamber volume and minimum anode area for supporting electrogenesis in microbial fuel cells treating wastewater, Journal of Renewable and Sustainable Energy 8 (4) 44032.
- 2. Ghadge, A. N., Jadhav, D. A., & Ghangrekar, M. M. (2016). Wastewater treatment in pilot- scale microbial fuel cell using multielectrode assembly with ceramic separator suitable for field applications. Environmental Progress & Sustainable Energy (DOI: 10.1002/ep.12403).
- 3. Ghadge, A. N., & Ghangrekar, M. M. (2015). Performance of low cost scalable air—cathode microbial fuel cell made from clayware separator using multiple electrodes. Bioresource Technology, 182, 373-377. (Impact Factor- 5.172)
- 4. Ghadge, A. N., Jadhav, D. A., Pradhan, H., & Ghangrekar, M. M. (2015). Enhancing waste activated sludge digestion and power production using hypochlorite as catholyte in clayware microbial fuel cell. Bioresource Technology, 182, 225-231. (Impact Factor-5.172)
- 5. Ghadge, A. N., & Ghangrekar, M. M. (2015). Development of low cost ceramic separator using mineral cation exchanger to enhance performance of microbial fuel cells. Electrochimica Acta, 166, 320-328. (Impact Factor- 5.172).
- 6. Jadhav, D. A., Ghadge, A. N., & Ghangrekar, M. M. (2015). Enhancing the power generation in microbial fuel cells with effective utilization of goethite recovered from mining mud as anodic catalyst. Bioresource technology, 191, 110-116. (Impact Factor-5.172)
- 7. Ghadge, A. N., Sreemannarayana, M., Duteanu, N., & Ghangrekar, M. M. (2014). Influence of ceramic separator's characteristics on microbial fuel cell performance. Journal of Electrochemical Science and Engineering, 4(4), 315-326.
- 8. Jadhav, D. A., Ghadge, A. N., Mondal, D., & Ghangrekar, M. M. (2014). Comparison of oxygen and hypochlorite as cathodic electron acceptor in microbial fuel cells. Bioresource Technology, 154, 330-335. (Impact Factor- 5.172)
- 9. Jadhav, D. A., Ghadge, A. N., & Ghangrekar, M. M. (2014). Simultaneous organic matter removal and disinfection of wastewater with enhanced power generation in microbial fuel cell. Bioresource technology, 163, 328-334. (Impact Factor- 5.172)
- 10. Ghadge, A.N., Ghangrekar, M. M., Pandit, S., & Das, D. (2014). Performance of air cathode earthen pot microbial fuel cell for simultaneous wastewater treatment with bioelectricity generation. International Journal of Environmental Technology and Management, 17(2), 143-153.
- 11. Ghadge, A. N., Pradhan, H., Prasad, S., & Ghangrekar, M. M. (2013, May). Enhancing Activity of Electrogenic Bacteria in Microbial Fuel Cell by 2-Bromoethanesulphonate Dosing. International Journal of Engineering Research and Technology, 2(5), 1086-1091.
- 12. Lari, Mohd. Sharique and Bhatt, Vandana and Ghadge, Anil Nivrati, Analytic Study of Construction Delays (February 22, 2019). Proceedings of Sustainable Infrastructure

- Development & Management (SIDM) 2019. Available at SSRN: https://ssrn.com/abstract=3369450 or http://dx.doi.org/10.2139/ssrn.3369450
- 13. Kamble, Tejas and Bhatt, Vandana and Ghadge, Anil Nivrati, Developing Tools to Streamline the Process of Contract Administration (February 22, 2019). Proceedings of Sustainable Infrastructure Development & Management (SIDM) 2019. Available at SSRN: https://ssrn.com/abstract=3369450 or http://dx.doi.org/10.2139/ssrn.3369450
- 14. Patil, Ankita and Bhatt, Vandana and Ghadge, Anil Nivrati, Developing Forensic Investigation Standards to Effectively Deal with Structural Failures (February 22, 2019). Proceedings of Sustainable Infrastructure Development & Management (SIDM) 2019. Available at SSRN: https://ssrn.com/abstract=3372764.
- 15. Khan, Ahmed and Ghadge, Anil Nivrati, Building Information Modelling (BIM) Based Sustainability Analysis for a Construction Project (February 23, 2019). Proceedings of Sustainable Infrastructure Development & Management (SIDM) 2019. Available at SSRN: https://ssrn.com/abstract=3372764 or http://dx.doi.org/10.2139/ssrn.3372764
- 16. Khan, Ahmed and Ghadeg, Anil Nivrati and Nagrale, Prashant, Evaluating Benefits of Building Information Modelling (BIM) Using a 5D Model for Construction Project (November 24, 2018). Available at SSRN: https://ssrn.com/abstract=3371434 or http://dx.doi.org/10.2139/ssrn.3371434
- 17. Anam Sayed, Sanjukta Bhowmik and A.N.Ghadge (2018) "Development of Hybrid Microbial Fuel Cell for Wastewater Treatment System and Electrocoagulation" International Journal of Engineering Technology Science and Research" (IJETSR), ISSN 2394 3386, Volume 5, Issue 4, April 2018.
- 18. Ashish Mutha & Dr. Anil Ghadge (2018) "Evaluating the factors affecting Quality of Residential projects in Construction Industry", International Journal of Engineering Technology Science and Research IJETSR, ISSN 2394 3386 Volume 5, Issue 4 April 2018.
- 19. Krutika Bugade& Anil Ghadge (2018) "Investigating the factors influencing disputes in construction industry", International Journal of Engineering Technology Science and Research IJETSR, ISSN 2394 3386 Volume 5, Issue 4 April 2018.
- 20. Poonam Raikar and A.N.Ghadge (2016). Analyzing the critical factors influencing the time overrun and cost overrun in construction project, International Journal of Engineering Research (IJER), 5(1), 21-25.
- 21. Shekhar Jadhav and A.N.Ghadge, (2016). Application of Building Information modeling in construction projects a critical review, International Journal of Engineering Research (IJER), 5(1), 26-31.
- 22. Sourabh Borole and A.N.Ghadge, (2016). Comparative study of conventional and modern waterproofing techniques, International Journal of Engineering Research (IJER), 5(1), 32-36.
- 23. A.N.Ghadge, .P.V.Parameswaran, and .P.H.Sawant (2008). Performance Evaluation of Materials Management Process in Construction Project, Journal of Construction Management NICMAR-Pune.

## **Conferences**

- 1. Ghadge, A. N., Jadhav D. A., Ghangrekar, M. M. (2015). Application of ceramic separator enriched with exchangeable cations for single chamber microbial fuel cells. International conference on Ceramic and Advanced materials for Energy and Environment (*CAMEE2015*), organized by Indian Ceramic Society in association with Indian Institute of Science (IISC) at Bengaluru, Karnataka, India, December 15-17, 2015.
- 2. Ghadge, A. N., Jadhav D. A., Pradhan, Harapriya, Ghangrekar, M. M. (2014). Sewage treatment plant sludge digestion and electricity generation in earthenware microbial fuel cell. International conference on Environment and Energy (ICEE-2014) Organized by JNTU, Hyderabad, India, December 15-17, 2014.
- 3. Ghadge, A. N., Ghangrekar, M.M. (2014). Performance of Low Cost Scalable Aircathode Microbial Fuel Cell Made from Ceramic Cylinder. Accepted for poster Presentation in *the Leading Edge Technology 2014 Conference, Organized by IWA, Abu Dhabi, UAE,* 26-30 May 2014.
- 4. Ghadge, A. N., Ghangrekar, M.M. (2013).Performance of Scalable Microbial Fuel Cell Using Multi-Anode/Cathode System with Ceramic Separator for Real-World Applications. *10th National Conference on Solid State Ionics* (NCSSI-2013), IIT Kharagpur, India, 22-24 Dec. 2013.
- 5. Ghangrekar, M.M., Ghadge, A.N (2013). Optimizing anodic chamber volume and power density for scaling up microbial fuel cell. 3<sup>rd</sup> National Conference on Recent Advances in Bio-Energy Research at SSS-NIRE, Kapurthala, 22-24 November 2013.
- 6. Ghadge, A. N., Rajesh P.P., Pritha Chatterjee, & Ghangrekar, M. M. (2013). Scaling up a Microbial Fuel Cell Having an Air-Breathing Cathode and Multiple Electrodes. *International Congress on Materials and Renewable Energy (MRE 2013), Athens, Greece*, 1-3 July 2013.
- 7. Ghadge, A. N., Ghangrekar, M.M. (2013). Effect of non-catalyzed electrode materials on low cost scalable microbial fuel cell performance. *International Symposium on New Horizons in Bioenergy Research, IIT Kharagpur, India*, January 14 16, 2013.
- 8. Ghangrekar M.M., Ghadge, A. N. (2012). Scaling up of microbial fuel cell using clay membrane separator and non-catalyzed electrode materials. International Conference on Industrial Biotechnology (ICIB-2012), organized by Punjabi university, Patiala, India, November 21-23, 2012.
- 9. Ghadge, A. N., Pandit, Soumya., Das, Debabrata., Ghangrekar, M.M.(2013). Performance of air cathode earthen pot MFC for simultaneous wastewater treatment with bioelectricity generation. *1st international workshop on waste to energy organized by NEERI, Mumbai, India*, August 24-25, 2012.
- 10. Jadhav D.A., Pandit S., Ghadge A. N., Das D., Ghangrekar M. M. (2013). Performance comparison between mixed and pure cultures in air cathode earthen pot microbial fuel cells. *10th National Conference on Solid State Ionics* (NCSSI-2013), IIT Kharagpur, India, 22-24 Dec. 2013.
- 11. Chatterjee, P., Pandit, S., Ghadge, A. N., Ghangrekar, M.M. (2013). Effect of binder loading on performance of air-cathode earthen pot microbial fuel cell. International

- Symposium on New Horizons in Bioenergy Research, IIT Kharagpur, India, January 14 16, 2013.
- 12. Ghadge, A. N., Prasad, Sriranjani, Pradhan, Harapriya, Ghangrekar, M.M.(2012). Enhancing activity of electrogenic bacteria in microbial fuel cell by BES dosing. International Conference on Advances in Biological Hydrogen Production and Applications (ICABHPA-2012) Organized by JNTU, Hyderabad, India, December 14-15, 2012.
- 13. Chatterjee, P., Pandit, S., Ghadge, A. N., Ghangrekar, M.M. (2012). Performance comparison of air-breathing cathode and aqueous cathode earthen pot microbial fuel cell, National Conference on Recent Advances in Bio-energy Research, Organized by Sardar Swaran Singh National Institute of Research, Kapurthala, Punjab,India, December 7-8, 2012.
- 14. Lari, Mohd. Sharique and Bhatt, Vandana and Ghadge, Anil Nivrati, Analytic Study of Construction Delays (February 22, 2019). presented at National Conference on Sustainable Infrastructure Development and Management, VNIT, Nagpur.
- 15. Tejas Kamble, Dr. Vandana Bhatt and Dr. Anil Ghadge (2019), "Developing tools to streamline the process of Contract Administration" presented at National Conference on Sustainable Infrastructure Development and Management, VNIT, Nagpur.
- 16. Ankita Patil, Dr. Vandana Bhatt and Dr. Anil Ghadge (2019), Developing Forensic Investigation Approach To Effectively Deal With Structural Failures. Sustainable Infrastructure Development & Management (SIDM-2019). VNIT Nagpur campus, 22-23 February, Nagpur (M.S.), India.
- 17. Khan, A., and Ghadge, A.N., (2019). 'Building Information Modelling (BIM) Based Sustainability Analysis for a Construction Project', Sustainable Infrastructure Development & Management (SIDM-2019). VNIT Nagpur campus, 22-23 February, Nagpur (M.S.), India.
- 18. Kalidas Solanki, Dr. A. N. Ghadge and A. E. Magdum, "Financial Feasibility Analysis of Slum Rehabilitation Scheme Projects in Mumbai", International Conference on Construction, Real Estate, Infrastructure and Project Management (ICCRIP–2018), Organized by NICMAR (Pune, Maharashtra, India), 23<sup>rd</sup> -25<sup>th</sup> November 2018.
- 19. Khan, A., Ghadge A.N., & Nagrale P.P. (2018). 'Evaluating Benefits of Building Information Modelling (BIM) using a 5D Model for Construction project', 3rd International Conference on Construction, Real Estate, Infrastructure and Project Management (ICCRIP-2018). NICMAR Pune campus, 23-25 November, Pune (M.S.), India.
- 20. Rahul R. Minde and Dr. Anil N. Ghadge (2018), 'Factors influencing quality throughout the lifecycle of a road project', presented at *3rd International Conference on Construction, Real Estate, Infrastructure and Project Management (IICRIP 2018)*, 23-25 November-2018 organized by NICMAR, Pune.
- 21. Krutika Bugade and Anil Ghadge (2018), Investigating the factors influencing disputes in construction industry *presented at* Proceedings of the International Conference on Recent Innovation in Engineering, Science and Management (ICRIESM-2018) held at-

- The Institution of Engineers, India, Maharashtra state Centre, Khadye Marg, Mumbai-400034
- 22. Anam Sayed and Dr Anil Ghadge (2018), *Development of Hybrid Microbial Fuel Cell for Wastewater Treatment System and Electrocoagulation presented at* Proceedings of the International Conference on Recent Innovation in Engineering, Science and Management (ICRIESM-2018) held at- The Institution of Engineers, India, Maharashtra state Centre, Khadye Marg, Mumbai-400034.
- 23. Sayed Anam and Ghadge A.N.(2018) Bio-electrochemically Supported Artificial Floating Islands:Novel approach for Heavy Metal Removal, Wastewater Treatment and Energy Recovery, INDO-EU workshop on "The Recent Developments In Microbial Fuel Cell And Membrane Bioreactor Technology, February 02-03, 2018 at Indian Institute of Technology Kharagpur
- 24. Sayed Anam and Ghadge A.N. Planning And Designing of Low Cost Bio-Electrochemical Waste Water Treatment System For Smart Villages, NICMAR Industry Academia Conference On Construction Management (IACCM) – 2018, July 27-28, 2018.
- 25. Ashish Mutha and Dr Anil Ghadge (2018), "Evaluating the factors affecting Quality of Residential projects in Construction Industry" presented at Proceedings of the International Conference on Recent Innovation in Engineering, Science and Management (ICRIESM-2018) held at- The Institution of Engineers, India, Maharashtra state Centre, Khadye Marg, Mumbai-400034.
- 26. Ajinkya Magdum, P.P. Nagrale and Ghadge A.N. (2018), Use of Processed fly ash for construction of Low volume rural roads, International Conference on Pavements and Computational Approaches (ICOPAC) 2018, CSIR-Central Road Research Institute (CSIR-CRI), Delhi, 16-17 Nov 2018.
- 27. A.N.Ghadge and Ashutosh Mittal (2017). Investigating the Factors Influencing Delay in Infrastructure Projects, International Conference on Advances in Civil and Environmental Engineering (*ICACEE-17*), Organized by Late G. N. Sapkal College of Engineering, Nashik, 10<sup>th</sup>- 11<sup>th</sup> February 2017 (Accepted).
- 28. A.N.Ghadge and Harshal Sonare (2017). Assessment of Risk and Hazards of construction activities in Residential Projects, International Conference on Advances in Civil and Environmental Engineering (*ICACEE-17*), Organized by Late G. N. Sapkal College of Engineering, Nashik, 10<sup>th</sup>- 11<sup>th</sup> February 2017 (Accepted).
- 29. A.N.Ghadge and Saurabh Jain (2017). Factors Affecting Labour Productivity in High Rise Building Construction Projects, International Conference on Advances in Civil and Environmental Engineering (*ICACEE-17*), Organized by Late G. N. Sapkal College of Engineering, Nashik, 10<sup>th</sup>- 11<sup>th</sup> February 2017 (Accepted).
- 30. A.N.Ghadge and Rishi Pathak (2017). Evaluating the Effectiveness of Material Management System in Residential Projects, International Conference on Advances in Civil and Environmental Engineering (*ICACEE-17*), Organized by Late G. N. Sapkal College of Engineering, Nashik, 10<sup>th</sup>- 11<sup>th</sup> February 2017 (Accepted).
- 31. A.N.Ghadge and Rajesh G. Vagal, (2016). Analyzing the Factors Influencing Deterioration in Residential Buildings-A Case Study in Mumbai, International conference on Advances in Concrete Technology, Materials and Construction Practices

- (*CTMC- 2016*), organized by Goa Engineering College, Farmagudi-Goa in collaboration with Government Polytechnic, Bicholim Goa and University of Bath, UK, 22<sup>nd</sup> -24<sup>th</sup> June 2016.
- 32. Arpit B. Chaudhari and A.N.Ghadge, (2016). Planning and Designing of Economical Water Distribution System, *International Conference on Advances in Construction Technology and Management*, organized by Visvesvaraya National Institute of Technology (VNIT) Nagpur, Maharashtra, India, 19-20 th February 2016.
- 33. Poonam Raikar and A.N.Ghadge, (2016). Analyzing the critical factors influencing the time overrun and cost overrun in construction project, 2<sup>nd</sup> National Conference on Innovations in Civil Engineering (NCICE-2016), organized by Government college of Engineering Karad, Maharashtra, India, 08-09 January, 2016.
- 34. Shekhar Jadhav and A.N.Ghadge, (2016). Application of Building Information modeling in construction projects a critical review, 2<sup>nd</sup> National Conference on Innovations in Civil Engineering (NCICE-2016), organized by Government college of Engineering Karad, Maharashtra, India, 08-09 January, 2016.
- 35. Sourabh Borole and A.N.Ghadge, (2016). Comparative study of conventional and modern waterproofing techniques 2<sup>nd</sup> National Conference on Innovations in Civil Engineering (NCICE-2016), organized by Government college of Engineering Karad, Maharashtra, India, 08-09 January, 2016.
- 36. Amey Baviskar and A.N.Ghadge, (2015). *Risk* Identification and Analysis in the Construction Project, *National Conference on "Role of Engineers in Nation Building (NCRENB-2015)*, organized by VIVA Institute of Technology, Shirgaon, Virar (E), Thane, 5<sup>th</sup> -6<sup>th</sup> March-2015.
- 37. Ankur Bhoite and A.N.Ghadge, (2015). Critical success factors for implementation of Public Private Partnership in Real Estate project, *National Conference on "Role of Engineers in Nation Building (NCRENB-2015)*, organized by VIVA Institute of Technology, Shirgaon, Virar (E), Thane, 5<sup>th</sup> -6<sup>th</sup> March-2015.
- 38. Arpit B. Chaudhari, Prashant P. Nagrale, and A.N.Ghadge, (2015). Planning and Designing of Economical Water Distribution Network for R/Northward Mumbai City: A Case Study, *National Conference on "Role of Engineers in Nation Building (NCRENB-2015)*, organized by VIVA Institute of Technology, Shirgaon, Virar (E), Thane, 5<sup>th</sup> -6<sup>th</sup> March-2015.
- 39. Namdev R. Sutar and A.N.Ghadge, (2015). Performance Evaluation of Earned Value Management in the Construction Industry, *National Conference on "Role of Engineers in Nation Building (NCRENB-2015)*, organized by VIVA Institute of Technology, Shirgaon, Virar (E), Thane, 5<sup>th</sup> -6<sup>th</sup> March-2015.
- 40. Ghadge A.N., and Sawant P.H. (2007)," Quality Management System In Construction" National conference on "Emerging Technology and Developments in Civil Engineering." (ETDCE-07), Amravati, 22-23 March, 2007.
- 41. Ghadge A.N., and Sawant P.H. (2008)," Quality Control In Material Management" International Conference on "Innovations in Building Materials, Structural Designs and Construction Practices "(IBMSDCP-2008), Erode Tamil Nadu, 15-17 May 2008.

- 42. Ghadge A.N., and Sawant P.H., (2008)," Design of storm Water Drainage system" National Conference on "Sustainable Water Resources Development and Management, SWRDAM-2008", Aurangabad.,13-14 June, 2008.
- 43. Ghadge A.N., and Sawant P.H., (2008) "Role of WTO towards Environmental Protection " in the International Conference on Green Growth to be held in December, 15th 18th, 2008, IBS, Hyderabad.
- 44. Ghadge A.N., and Sawant P.H., (2008) "Use of Inventory control technique in civil Engineering Project- A case Study" in the International Conference on Emerging Trends in Civil Engineering, , Loni, Ahemednagar, Maharashtra20<sup>th</sup> 22<sup>nd</sup> December, 2008.