

## DR. ABHILASH T. NAIR

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### ACADEMIC QUALIFICATIONS

|                               |   |
|-------------------------------|---|
| January 2012 to<br>March 2015 | <b>Ph.D. in Civil Engineering</b><br>Sardar Vallabhbhai National Institute of Technology, Surat<br>Title: Reuse of water treatment sludge in post-treatment of UASB reactor effluent. |
| July 2009 to<br>June 2011     | <b>M.Tech. in Civil ( Environmental) Engineering</b><br>Sardar Vallabhbhai National Institute of Technology, Surat  |
| July 2004 to<br>June 2008     | <b>B.E. in Civil Engineering</b><br>A.I.S.S.M.S. College of Engineering, Pune<br>University of Pune   |

### PROFESSIONAL JOURNEY

|                                       |   |
|---------------------------------------|---|
| July 2019 to present                  | <b>Assistant Professor (Environmental Engineering)</b> in<br>Department of Applied Science and Humanities, <b>National<br/>Institute of Foundry and Forge Technology</b> , Ranchi |
| February 2019 to<br>June 2019         | <b>Senior Assistant Professor</b> in Civil Engineering<br>Department, <b>Madanapalle Insitute of Technology and<br/>Science, Madanapalle</b>                                      |
| February 2017 to<br>January 2019      | <b>SERB – National Post Doctoral Fellow</b><br>Department of Civil Engineering, <b>Indian Institute of<br/>Technology Madras</b> , Chennai  |
| 21 October 2016 to<br>31 January 2017 | <b>Senior Project Officer</b> at EWRE Lab, Department of Civil<br>Engineering, <b>Indian Institute of Technology Madras</b> ,<br>Chennai  |
| 01 July 2016 to<br>30 September 2016  | <b>Senior Project Officer</b> at EWRE Lab, Department of Civil<br>Engineering, <b>Indian Institute of Technology Madras</b> ,<br>Chennai  |

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|-------------------------------------|--|
| 01 June 2015 to<br>07 June 2016     | <b>Assistant Professor</b> in Civil Engineering Department in<br><b>Dr. D. Y. Patil Institute of Engineering and<br/>Technology</b> , Pimpri, Pune |
| 11 July 2011 to<br>22 December 2011 | <b>Assistant Professor</b> in Civil Engineering Department,<br><b>Marwadi Education Foundation's Group of Institutes</b> ,<br>Rajkot               |
| 04 August 2008 to<br>31 March 2009  | <b>Trainee Engineer</b> at <b>Magarpatta Township<br/>Development and Construction Company Ltd.</b> , Pune   |

### **SCI INDEXED INTERNATIONAL JOURNAL PUBLICATIONS**

1. **Nair, A. T.**, Senthilnathan, J., Shiva Nagendra S.M. (2019) *Application of the phycoremediation process for tertiary treatment of landfill leachate and carbon dioxide mitigation*, **Journal of Water Process Engineering**, 28, 322–330.
2. **Nair, A. T.**, Senthilnathan, J., Shiva Nagendra S.M. (2019) *Emerging perspectives on VOC emissions from landfill sites: Impact on tropospheric chemistry and local air quality*. **Process Safety and Environmental Protection**, 121, 143–154.
3. **Nair, A. T.**, Ahammed, M. M., (2017) *Influence of sludge characteristics on coagulant recovery from water treatment sludge: A preliminary study*. **Journal of Material Cycle and Waste Management**, 19, 1228–1234.
4. **Nair, A.T.**, Ahammed, M.M., (2015) *The reuse of water treatment sludge as a coagulant for post-treatment of UASB reactor treating urban wastewater*. **Journal Cleaner Production**, 96, 272–281.
5. **Nair, A.T.**, Ahammed, M.M., (2015) *Water treatment sludge for phosphate removal from the effluent of UASB reactor treating municipal wastewater*, **Process Safety and Environmental Protection**, 94, 105–112.
6. **Nair, A.T.**, Ahammed, M.M., (2014) *Coagulant recovery from water treatment plant sludge and reuse in post-treatment of UASB reactor effluent treating municipal wastewater*. **Environmental Science and Pollution Research**, 21, 10407–10418.
7. Ahammed, M.M, Dave, S., **Nair, A. T.** (2015) *Effect of water quality parameters on solar water disinfection: a statistical experiment design approach*, **Desalination and Water Treatment** 56, 315 – 326.
8. **Nair, A. T.**, Makwana, A. R., Ahammed, M. M., (2014) *The use of response surface methodology for modelling and analysis of water and wastewater treatment processes: a review*. **Water Science and Technology**, 69, 464–478.
9. **Nair, A.T.**, Ahammed, M.M., Davra, K., (2014) *Influence of operating parameters on the performance of household slow sand filter*. **Water Science & Technology: Water Supply**, 14, 643–649.

## INTERNATIONAL/ NATIONAL CONFERENCE PUBLICATIONS

1. **Nair, A. T.**, Shiva Nagendra S. M., *Air pollutants released from municipal solid waste disposal site and its impact*, **3<sup>rd</sup> Indian International Conference on Air Quality Management (IICAQM-2018)**, IIT Madras, 6-7 December 2018.
2. **Nair, A.T.**, Shiva Nagendra S. M., *Chlorella pyrenoidosa mediated phycoremediation of landfill leachate*, **International conference on impact of global atmospheric changes on natural resources**, Bangalore University, 19 – 20 November 2018.
3. Shukla, P., Makwana A., **Nair, A.T.**, *Techno-economical study of electrocoagulation process treating leachate under different connecting modes*, **International Conference on Waste Management (ICWM), Recycle-2018**, IIT Guwahati, 22-24 February 2018.
4. **Nair, A.T.**, Devaanandan S., Noel A., Shiva Nagendra S. M., *Characterisation of particulate matter and black carbon during festivals in an urban area*, **2<sup>nd</sup> Indian International Conference on Air Quality Management (IICAQM-2017)** IIT Delhi, 1-2 June 2017.
5. Ahammed, M.M., **Nair, A.T.**, George, D., *Modified biosand filter for simultaneous removal of bacteria and arsenic*. **12<sup>th</sup> IWA Conference on Small Water and Wastewater Systems and Resources Oriented Sanitation**, Muscat, Sultanate of Oman, 2-4 November, 2014.
6. **Nair, A.T.**, Ahammed, M.M., *Characterisation of water treatment residuals and their beneficial reuses*. **International Conference on Green Technology for Environmental Pollution Prevention and control**, NIT, Trichy, 27-29 September, 2014.
7. **Nair, A.T.**, Ahammed, M.M., *Biosand Filtrations: A sustainable option for household treatment of drinking water*. **International symposium on integrated water resources management (IWRM)**, CWRDM, Kozhikode-India, February 19-21, 2014.
8. Ahammed, M.M., **Nair, A.T.**, Meera, V., *Quality and treatment of roof-harvested rainwater*. **International symposium on integrated water resources management (IWRM)**, CWRDM, Kozhikode-India, February 19-21, 2014.
9. Davra, K., **Nair, A.T.**, Ahammed, M.M. *Influence of operating parameters on the performance of household slow sand filter*. **11<sup>th</sup> IWA conference on small water and wastewater systems and sludge management**, Harbin-China, October 27-30, 2013.
10. **Nair, A.T.**, Ahammed, M.M. *Recovery of Aluminium from water treatment plant residuals*. **Internationals conference in Civil Engineering and**

**infrastructural issues in emerging economics**, SASTRA University, Tanjaur-India, February 27–28, 2013.

11. Davra, K., Ahammed, M.M., **Nair, A.T.** *Performance evaluation of a biosand filter for household treatment of drinking water. International conference on sustainable water resource management and treatment technologies, NEERI, Nagpur*, January 19–21, 2011.

#### **BOOK CHAPTER**

1. Ahammed, M.M., Solanki, C., **Nair A.T.** *Long-term performance evaluation of biosand filters modified with zero-valent iron*, in **Progress in slow sand and alternative biofiltration processes**, International Water Association (IWA) publishing, London, 2014 chapter-48, pp 359–365. (ISBN: 9781780406374)

#### **INVITED TALK DELIVERED**

Delivered invited lecture on *Use of water treatment sludge for pollution control* in **One week short term training programme (TEQIP-II sponsored) on Waste Management in Smart Cities**, S. V. National Institute of Technology, Surat, 09–13 May, 2016

#### **PROFESSIONAL MEMBERSHIP**

Life Member, Indian Society for Technical Education (I.S.T.E) (LM86447)  
Life Member, Indian Water Works Association (I.W.W.A.) (LM7472)

#### **Scopus Profile**

<https://www.scopus.com/authid/detail.uri?authorId=56901951900>