

Name: Mujahid Husain  
Designation: Professor and Head  
Experience in teaching: 18 years  
Educational Qualification: B.E., M.E., Ph. D.  
Specialization: Environmental Engineering  
Date of birth: 5 Dec 1969  
Mobile no.: 9765834253  
Email ID: ermujahidhusain@yahoo.com

**Achievements:**

1. Recognized Guide for Ph D in Civil Engineering
2. Recognized PG Teacher.
3. Referee and reviewer of esteemed journals.

Research publications:

**Papers published in international journals:**

1. "Computer simulation of salt gradient solar pond" (2002) *Renewable energy*, M Husain S R Patil, P S Patil and S K Samdarshi 28, 769-802. **Impact Factor 3.2**
2. "Optimum size of non convective zone for improved thermal performance of salt gradient solar pond" (2003), *Solar energy*, M Husain S R Patil, P S Patil and S K Samdarshi, 74, 429-436.

**Impact Factor 3.5**

3. "Combined effect of water turbidity and bottom reflectivity on thermal performance of salt gradient solar pond", (2004) *Energy conversion and management*, M Husain S R Patil, P S Patil and S K Samdarshi, 45, 73-81.

**Impact Factor 3.8**

4. "Simple methods estimation of radiation flux in salt gradient solar pond" (2003) *Energy conversion and management*, M Husain S R Patil, P S Patil and S K Samdarshi, 45, 303-314.

**Impact Factor 3.8**

5. "Significant depth of ground water table for thermal performance of salt gradient solar pond" (2009) *Renewable Energy*, A K Saxena, S Sugandhi and M Husain, 34(3), 790 – 793.

**Impact Factor 3.2**

6. "Innovative design of non-convective zone of salt gradient solar pond for optimum thermal performance and stability" (2012) *Applied Energy*, M Husain, G Sharma and S K Samdarshi, 93, 357-363.

**Impact Factor 5**

7. "Meteorologically efficient thermal performance of salt gradient solar pond" (2012) *Applied Solar Energy*, H Husain, S P Shekhawat and M Husain, 48(3), 180-185.

### **Impact Factor 2**

8. "Pollution control: a techno-spiritual perspective" (2012) *Pratibha- International Journal of Science, Spirituality, Business and Technology*, M Husain, K S Wani and S P Pawar, 1(1) 82- 85.
9. "Enhancing soil fertility by fly ash" (2010) *Green Farming*, S L patil, M V Baride, M Husain, 1(1), 67 – 69.
10. "Rational design of non-convective zone of salt gradient solar pond considering turbidity and biological growth in water" (2007) *Environment Conservation Journal*, A K Saxena, S Sugandhi and M Husain, 8(3) 75-85.
11. Fly ash concrete for road pavement: techno-economic analysis (2010) M V Baride, S L Patil, M Husain and B V Mahajan, *International Journal of Advances in Engineering and Technology*, 1(3), 93-100.
12. "Simulation studies of dispersion of air pollution over city of Jalgaon" (2012) *Global Journal of Engineering and Applied Sciences*. S P Pawar and M Husain, 2(2) 186 – 188.
13. "Simulation studies of dispersion of air pollution over city of Jalgaon" (2012) *Global Journal of Engineering and Applied Sciences*. S P Pawar and M Husain, 2(2) 186 – 188.
14. "Air Pollution Monitoring for city of Jalgaon" (2012) *Global Journal of Engineering and Applied Sciences*. S B Pawar and M Husain, accepted.
15. "Specific microbial degradation kinetics of food waste: a case study" (2013) *International Journal of Geology, Earth and Environmental Sciences*, P M Patil and M Husain, 3(3), 11-17.
16. "Energy generation potential of traditional 'Khandesh' region food residues" (2013) *International Journal of Geology, Earth and Environmental Sciences*, P M Patil and M Husain, 3(1), 111-117.

17. "Feasibility study of Salt gradient solar pond for a thermal power plant" (2013) International Journal of Mechanical Engineering Research and Applications, 1(4), 24-27.
18. "Dairy wastewater a case study" (2014) International Journal of Research in Engineering and Technology, S APatil, V V Ahire and M Husain, 3(9), 30-34.
19. "Universal performance parameter for photo-catalytic oxidation in slurry phase" (2014) International journal of Emerging Trends in Engineering and Development, V R Diware, M Husain and S K Dahiwelkar, 4(3) 756-762.
20. "Experimental investigations of effect of meteorology and turbidity on operation of salt gradient solar ponds in the tropics" (2014) S P Shekhawat, International journal of Renewable Energy Research, M Husain and N V Halegowda, 4(1),144-150.
21. "Salt gradient solar pond: future energy option for India" (2014) International Journal of Energy Engineering, 4(1), 9-11.

**Papers published in the proceedings of National/International level conferences:**

1. Salinity- a case study of Tapi basin” S L Patil, M Husain, in the proceeding of National level seminar on salinity in Purna alluvial basin held at Govt College of Engineering Amravati (MS) on 28-29 January 1999.
2. “Solid waste management for the campus of COET Bambhori” S L Patil, M Husain, in the proceeding of the National level seminar on Geo-technical and Environmental aspect of managing municipal solid waste, at MNREC Allahabad, (UP) on 30<sup>TH</sup> Oct 1999.
3. “Industry institute interaction, a path ahead” S L Patil, M Husain, in the Proceeding of National level seminar on Towards excellence in technical Education in 21<sup>ST</sup> century, at College of engineering Pusad (MS) on 23-24 November 1999.
4. “Entrepreneurship: global scenario at the verge of next millennium” M Husain, P I Ugran in the proceeding of National level seminar on “Towards Excellence in Technical education in 21<sup>ST</sup> century, at College of engineering Pusad (MS) on 23- 24 November 1999.
5. “Disha- direction, innovations and strategies for harnessing action” M Husain and J G Solanki in the proceeding of National level seminar on “Towards excellence In technical education in 21<sup>ST</sup> century, at College of engineering Pusad (MS) on 23-24 November 1999.
6. “Performance appraisal of water treatment plant for the city of Jalgaon” S L Patil, M Husain, in the proceeding of Indian water works association (IWWA) National Level seminar on operation and maintenance of water supply schemes at Amravati (MS) on 25-26 December 1999.
7. “Effect of bottom’s reflectivity on thermal performance of salt gradient solar pond” M Husain S R Patil, P S Patil and S K Samdarshi, in the proceeding of the national Level seminar held at IIT Powai, on 29 November 2000 to 2<sup>nd</sup> December 2000.
8. “Combined system for photo-catalytic oxidation and photo-thermal conversion an: Techno-economic feasibility analysis” M Husain S R Patil, P S Patil and S K Samdarshi, in the proceeding of the national level seminar held at IIT Powai, on 29 November 2000 to 2<sup>nd</sup> December 2000.

9. "Curriculum design in environment" S L Patil, M Husain and V Diware, in the Proceeding of International Congress of chemistry and environment, at Indore (MP) on 16-18 December 2001.
10. "Performance appraisal of water treatment plant at Bhusawal and Jalgaon" S L Patil, M Husain and V Diware, in the proceeding of International Congress of *Chemistry and environment*, at Indore (MP) on 16-18 December 2001.
11. "Future perspective of industrial waste water management" SL Patil, M Husain and Veerseh Kaul, at the National level seminar on Geo-environmental hazards- a future Perspective, at JTM college of engineering Faizpur (MS) on 6-7 October 2003.
12. "Environmental aspect of engineering practices" S L Patil, M Husain and Smt Sakina Shakir, in the proceeding of International Congress of chemistry and environment, at Indore (MP) on Dec 25-27, 2005.
13. "An oxidation pond in river!!!" S L Patil, M Husain and Smt Sakina Shakir, in the Proceeding of International Congress of chemistry and environment, at Indore (MP) on Dec 25-27, 2005.
14. "Photocatalytic de-colorization/degradation of azo dyes using different types of TiO<sub>2</sub> under solar and artificial source of UV radiation" *World Renewable Energy Conference*, S R Patil, P S Patil, M Husain and S K Samdarshi 2004.
15. "Nano-technology: a glance over history and perspectives" (2008), M Husain and P G Damle, in the proceedings of National conference on Nanotechnology at SSBT's COET, Bambhori, Jalgaon, MS on March 3, 2008.
16. "Nano-technology: Its applications for industrial wastewater management", (2008), M Husain and R Mowar, in the proceedings of National conference on Nanotechnology at SSBT's COET, Bambhori, Jalgaon, MS on March 3, 2008.
17. Influence of turbidity on optimum size of non-convective zone of salt gradient solar pond" (2007) S Sugandhi, A K Saxena and M Husain, in the proceedings of Annual Convention of Indian Water Works Association, held on Feb 1-3, 2007 at Mumbai, MS.

18. Environmentally consistent reuse method of fly ash: a case study (2008), S L Patil, M Husain and M V Baride, in the proceedings of International conference on Green and Clean Environment, held on March 21- 22, 2008 at MIT Pune, MS.
19. “ Fly ash enriched bricks” (2009), S L Patil, M V Baride, R A Sonawane and M Husain, in the proceedings of International Conference on Emerging Trends in waste Management Technologies, held on Dec 3-4, 2009, at MIT Pune, MS.

**Books written:**

1. *Elements of civil engineering* for Everest publication Pune (MS). The book is written for the students of first year in engineering to apprise them of the various disciplines in the civil engineering.
2. A Chapter in *Ponds: Formation, Characteristics and Uses*, Nova Science Publications, New York.