

Dr. W. Christ Raj

journals		conference		Books published	Popular article
National	International	National	International	-	-
-	15	6	7		

LIST OF PUBLICATIONS

International Journals

1. Shanmugam S. and Christ Raj W.,(February 2005), 'The Tracking of the Sun for Solar Paraboloidal Dish Concentrator' Journal of Solar Energy-ASME-Transactions. Vol.127, pp.156-160.
2. S. Shanmugam. and W.Christ Raj (2007)," A novel design of absorber to eliminate sun-traction mechanism in the east-west direction in paraboloidal dish concentrators", International Journal of Applied Engineering Research (IJAER) Vol.2 No.4., PP.609-623.
3. Venkatesh, R, Christraj, W 2013, 'Experimental investigation of multipurpose solar heating system', Journal of Energy Engineering, Sep 2013 (Online).
4. Venkatesh, R, Christraj, W 2013, 'Performance Analysis of Solar Water heater in multipurpose solar heating system', Applied Mechanics and Materials, Vols-592-594 (2014), pp 1706-1713.
5. Venkatesh, R, Christraj, W 2013, 'Design and performance evaluation of a multi functional passive solar dryer for paddy', Ecology Environment and Conservation, Vol 20, Issue 3, pp 1043-1054.
6. Arulkumaran, M. and W. Christ raj (2012) "Experimental analysis of non tracking solar parabolic dish concentrating system for steam generation" Engineering Journal, Vol 16 (2), 54-60.
7. Arulkumaran, M., Dr.W. Christ raj and M. Manickavasagam (Jan 2014) "Theoretical and Experimental Investigations of tracking Techniques in solar parabolic dish concentrator" Australian Journal of Basic and Applied Sciences, Vol.8(1), 207-212.
8. P. Sivakumar, W. Christ Raj, N. Jaya Malathi, S. Balakrishnan (2013) "Performance analysis of flat plate solar water heater by changing the heat pipe material" Advanced Materials Research, volume. 768, pp 64-69, ISSN 1022 6680.
9. P. Sivakumar, W. Christ Raj, N. Jaya Malathi, R. Balamurugan (2013) "Experimental Investigation of Nano particles blended with water on solar flat plate collector", Advanced Materials Research, volume 768, pp 164-170. ISSN 1022 6680.
10. P. Sivakumar, W. Christ Raj, N. Jaya Malathi, M. Sridharan (2012) Performance Comparison of differently configured solar water heaters, European Journal of Scientific Research, volume. 91 No.1, pp 23-31, ISSN 1450-216x.

11. P. Sivakumar, W. Christ Raj, M. Sridharan, N. Jaya Malathi, (2012) Performance Improvement study of solar water heating system, ARPN Journal of Engineering and Applied Sciences, volume 7, No. 1, pp 45-49, ISSN 1819-6608.
12. Velmurugan, K, Christraj, W, Kulasekharan, N & Elango, T 2016, 'Performance Study of a Dual-Function Thermosyphon Solar Heating System', Arabian Journal for Science and Engineering, vol. 41, no. 5, page. 1835-1846.
13. Rajasekaran, S & Christ Raj, W 2016, 'Comparative study of Nusselt number for a single phase fluid flow using plate heat exchanger', THERMAL SCIENCE, vol. 20, no. 4, pp. S929-S935. (Impact Factor 0.939).
14. Kannan, D & Christ Raj, W 2018, 'Emission analysis of Azolla methyl ester with Bi₂O₃ nano additives for IC engine', Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, doi.org/10.1080/ 15567036.2018.1474296. vol. 40, no. 10, pp. 1183-1189 (Annexure I, Impact Factor: 0.555).
15. Kannan, D & Christ Raj, W 2018, 'Emission analysis of Azolla methyl ester with Bao nano additives for IC engine', Energy Sources, Part A: Recovery, 3

International Conference

1. Shanmugam S. and Christ Raj W. (2003), 'Experimental Analysis of Periodical position Solar Paraboloidal dish concentrator' International Conference on Energy and Environmental Technologies for Sustainable Development at MNIT, Jaipur. pp.328 - 332.
2. Shanmugam S. and Christ Raj W.(2003), 'Computer Aided Design of Intermittent tracking Solar Paraboloidal dish Concentrator as Low cost water heater' International Conference on Energy and Environmental Technologies for Sustainable Development at MNIT, Jaipur., pp.337 - 342.
3. Venkatesh, R, Christraj, W 2013, 'Analysis of Heat Transfer Characteristics in Multipurpose solar heating system', Proceedings of the first International Conference on Recent Trends in Engineering and Technology, pp. 832-838.
4. Venkatesh, R, Christraj, W 2013, 'Performance Analysis of Solar Air heater in multipurpose solar heating system', Proceedings of the Second International conference on Science, Engineering and Management, pp. 801-811.
5. Venkatesh, R, Christraj, W 2013, 'Performance Analysis of Solar Water heater in multipurpose solar heating system', Proceedings of the International Mechanical Engineering Congress, Accepted for publication.
6. Arulkumaran, M., W. Christ raj and M.Palanikumar (2011) Performance analysis of solar parabolic dish concentrator for steam generation, ICTIRES-2011, 17-18 March 2011, Hindustan University Chennai.
7. Velmurugan, K, Christraj, W & Dhiwahar, R 2015, 'Experimental and Theoretical study of Multipurpose Solar Air Heater', Proceedings of the second Indo-Brazil bilateral International Conference on Advanced Materials and Manufacturing, at CAPE Institute of Technology, Tirunelveli, on 27&28 March -2015. Utilization, and Environmental Effects,doi.org /10.1080/ 15567036.2018. 1476617, vol. 40, no. 10, pp. 1234-1241 (Annexure I, Impact Factor: 0.555).

National Conference

1. Christ Raj. W. (2003), 'Design of Energy Efficient Pumps' National Conference on Recent developments in Design of Hydraulic machines at SACET.Trichy Feb-01-2003
2. Christ Raj. W. (2003), 'Hydraulic power Recovery Turbine in Fertilizer plants' National Conference on Recent developments in Design of Hydraulic machines at SACET.Trichy Feb-01-2003
3. Venkatesh, R, Christraj, W 2013, 'Design and Development of modified solar air heating system in summer season', LTIME-2014. K.Ramakrishnan College of Engineering, Trichy, India.
4. Venkatesh, R, Christraj, W 2013, 'Experimental Performance of modified solar air heating system in winter season', ACME-2014. Sengunthar Engineering College, Namakkal, India.
5. Arulkumaran, M. and W. Christhuraj and M.Chandrasekaran (2011) Rural application of solar parabolic dish concentrating collector for drying process, 24-25 Feb2011, Sri Ram Engg College Chennai.
6. Arulkumaran, M. and W. Christhuraj and M.Palanikumar (2011) Energy production technology option by solar parabolic concentrator for rural application, 23-24 Feb 2011, JJCET ,Trichy.
4. Venkatesh, R, Christraj, W 2013, 'Experimental Performance of modified solar air heating system in winter season', ACME-2014. Sengunthar Engineering College, Namakkal, India.
5. Arulkumaran, M. and W. Christhuraj and M.Chandrasekaran (2011) Rural application of solar parabolic dish concentrating collector for drying process, 24-25 Feb2011, Sri Ram Engg College Chennai.
6. Arulkumaran, M. and W. Christhuraj and M.Palanikumar (2011) Energy production technology option by solar parabolic concentrator for rural application, 23-24 Feb 2011, JJCET ,Trichy