

Department Name: Energy (Energy Centre)

Publication	<ul style="list-style-type: none"> • International Journals 75 • National Journal 02 • International Conference 28 • National Conference 06 • Chapter in Edited Book 05 • Books 07 • Conference/Seminar Proceeding 02 • Patent 01
	<p align="right">Total Publications 126</p>
	<p><u>International Journals: 75</u></p>
	<ol style="list-style-type: none"> 1. Prashant Singh Chauhan and Anil Kumar. Thermal analysis of insulated north-wall greenhouse with solar collector under passive mode. International Journal of Sustainable Energy, Taylor & Francis. (Online). http://dx.doi.org/10.1080/14786451.2016.1261866 2. Anil Kumar, Om Prakash and Perapong Tekasakul. Environomical analysis and mathematical modelling of potato chips drying in modified solar greenhouse dryer. Heat Transfer Research. Volume 48, 2017. SCI Impact Factor: 0.930 (Manuscript ID: HTR-12421, In production). 3. Anil Kumar, Om Prakash & Akarshi Dube. A Review on Technology and Promotional Initiatives for Concentrated Solar Power in World. International Journal of Ambient Energy Pages 1-20. Published online: 09 Mar 2017. http://dx.doi.org/10.1080/01430750.2017.1298058 . 4. Anil Kumar, Om Prakash, and Ajay Kumar Kaviti. A Comprehensive Review of Scheffler Solar Collector. Renewable & Sustainable Energy Reviews 77C (2017) 890-898. http://doi.org/10.1016/j.rser.2017.03.044 5. Anil Kumar Om Prakash, Akarshi Dube and. A Review on Progress of Concentrated Solar Power in India. Renewable & Sustainable Energy Reviews. Volume 79, November 2017, Pages 304–307. https://doi.org/10.1016/j.rser.2017.05.086 6. Prashant Singh Chauhan, Anil Kumar and Bhupendra Gupta. A Review on Thermal Models for Greenhouse Dryers. Renewable and Sustainable Energy Reviews 75 (2017) 548–558. SCI Impact Factor: 6.798. http://dx.doi.org/10.1016/j.rser.2016.11.023 7. Hardik Naik, Prashant Baredar and Anil Kumar. Medium Temperature Applications of Concentrated Solar Thermal Technology: Indian Perspective. Renewable & Sustainable Energy Reviews Renewable and Sustainable Energy Reviews 76 (2017) 369–378. http://dx.doi.org/10.1016/j.rser.2017.03.014 8. Vipin Shrivastava and Anil Kumar. Embodied energy analysis of the indirect solar drying unit. International Journal of Ambient Energy (Taylor & Francis), 2017, Vol. 38, No. 3, 280–285. http://dx.doi.org/10.1080/01430750.2015.1092471 9. Anil Kumar, Ranchan Chauhan, Raj Kumar, Tej Singh, Muneesh Sethi, Anil Kumar, Ashutosh Sharma. Developing heat transfer and

- pressure loss in an air passage with multi discrete V-blockages. **Experimental Thermal and Fluid Science** **84** (2017) 266–278 DOI: <http://dx.doi.org/10.1016/j.expthermflusci.2017.02.017>
10. Prashant Singh Chauhan and **Anil Kumar**. Heat Transfer Analysis of North Wall Insulated Greenhouse Dryer under Natural Convection Mode. **Energy-Elsevier**. 118 (2017) 1264-1274. **SCI Impact Factor: 4.292**.
 11. Ashutosh Sharma, Ranchan Chauhan, Tej Singh, **Anil Kumar**, Raj Kumar, Anil Kumar, Muneesh Sethi. Optimizing discrete V obstacle parameters using a novel Entropy-VIKOR approach in a solar air flow channel. **Renewable Energy-Elsevier** **106** (2017) 310-320, doi: 10.1016/j.renene.2017.01.010
 12. Perapong Tekasakul, **Anil Kumar**, Chalad Yuenyao, Pairoj Kirirat, Gumpon Prateepchaikul. Assessment of sensible heat storage and fuel utilization efficiency enhancement in rubber sheet drying. **Journal of Energy Storage-Elsevier** **10** (2017) 67–74. <http://dx.doi.org/10.1016/j.est.2017.01.002> .
 13. Geetam Richhariya **Anil Kumar**, Perapong Tekasakul and Bhupendra Gupta. Natural Dyes for Dye Sensitized Solar Cell: A Review. **Renewable & Sustainable Energy Reviews** **69** (2017) 705–718. **SCI Impact Factor: 6.798**. (10.1016/j.rser.2016.11.198)
 14. Om Prakash, **Anil Kumar** and Yahya I. Sharaf-Eldeen. Review on Indian Solar Drying Status. **Journal: Current Sustainable/Renewable Energy Reports** (2016) 3:113–120. DOI: 10.1007/s40518-016-0058-9 (**Online**).
 15. Racha Dejchanchaiwong, Yutthana Tirawanichakul, Supawan Tirawanichakul, **Anil Kumar** and Perapong Tekasakul. Conjugate Heat and Mass Transfer Modeling of a New Rubber Smoking Room and Experimental Validation. **Applied Thermal Engineering**. 112 (2017) 761–770. (**SCI Impact Factor: 3.043**).
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 17. Om Prakash and **Anil Kumar**. Performance of Modified Greenhouse Dryer with Thermal Energy Storage. **Energy Reports** 2 (2016) 155–162.
 18. S.Vijayan, T.V.Arjunan and **Anil Kumar**. Mathematical modeling and performance analysis of thin layer drying of bitter gourd in sensible storage based indirect solar dryer. **Innovative Food Science and Emerging Technologies** **36** (2016) 59–67. doi: 10.1016/j.ifset.2016.05.014. **SCI Impact Factor: 3.273**.
 19. Prashant Singh Chauhan and **Anil Kumar**. Performance analysis of greenhouse dryer by using insulated north-wall under natural convection mode. **Energy Reports** 2 (2016) 107–116.
 20. Om Prakash, Vinod Laguri, Anukul Pandey, **Anil Kumar**, Arbind Kumar. Review on various modelling techniques for the solar dryers. **Renewable and Sustainable Energy Reviews**. Volume 62, September 2016, Pages 396–417. **SCI Impact Factor: 6.798**
 21. Sonthawi Sonthikun, Phaochinnawat Chairat, Kitti Fardsin, Pairoj Kirirat, **Anil Kumar** and Perapong Tekasakul. Computational Fluid Dynamic Analysis of Innovative Design of Solar-Biomass Hybrid Dryer: An Experimental Validation. **Renewable Energy: An International Journal**. 2016 Vol. 92 July 2016, Pages 185-191. ISSN: 0960-1481, **SCI Impact Factor: 3.476**.
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- Innovative Food Science and Emerging Technologies. 2016. Vol. 34** Pages 86-99. **ISSN: 1466-8564, SCI Impact Factor: 3.273.**
23. Vipin Shrivastava, **Anil Kumar**, Prashant Baredar. Drying kinetics of fenugreek drying in indirect solar dryer. **Heat Transfer Research**. Vol. 48 (Begalhouse publication House) (ISSN Print: 1064-2285). (**SCI Impact Factor: 0.477**). **Accepted**. DOI: 10.1615/HeatTransRes.2016011738
 24. Vipin Shrivastava, **Anil Kumar**. Experimental Investigation on the Comparison of Fenugreek Drying in an Indirect Solar Dryer and under Open Sun. **Heat and Mass Transfer (2016) 52 (09): 1963-1972** (ISSN: 0947-7411) **Springer**. (Impact Factor 0.946). DOI 10.1007/s00231-015-1721-1.
 25. Om Prakash, **Anil Kumar**, Anukul Pandey, Arbind Kumar, Vinod Laguri. A Review on Biogas Plant. *International Journal of New Technologies in Science and Engineering*, Vol. 2, Issue 4, October 2015, 84-93. ISSN 2349-0780.
 26. Prashant Singh Chauhan **Anil Kumar** and Perapong Tekasakul. Applications of software in solar drying systems: A review. **Renewable and Sustainable Energy Reviews** 51 (2015) 1326–1337. **SCI Impact Factor: 6.798**
 27. Om Prakash, **Anil Kumar**, Ajay Kumar Kaviti, and P. Vishwanath Kumar. Prediction of The Rate of Moisture Evaporation from Jaggery in Greenhouse Drying using the Fuzzy Logic. **Heat Transfer Research** (Begalhouse publication House) **46(10), 923–935 (2015)** (ISSN Print: 1064-2285). (**SCI Impact Factor: 0.477**).
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 33. Vipin Shrivastava, **Anil Kumar**, Prashant Baredar. Development and Performance Evaluation of modified Solar Air Heater Integrated with drying Chamber. **International Journal of Mechanical Engineering Research** 3(2): 96-104 (ISSN: 2277-8128)
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- Global Solar Drying Status. Agric Eng Int: CIGR Journal** (ISSN: 16821130) Vol.16 No.4; 161-177.
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 40. Vipin Shrivastava, **Anil Kumar**, Prashant Baredar. Developments in Indirect Solar Dryer: A Review (**ID: IJWRE-4103**). **International Journal of Wind and Renewable Energy** 3(4), 67-74. (ISSN: 2277-3975).
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 43. Trilok Singh Bisoniya, **Anil Kumar**, Prashant Baredar. Study on calculation models of earth-air heat exchanger systems. **Journal of Energy**, Hindawi Publishing Corporation, Volume 2014, Article ID 859286, 15 pages, <http://dx.doi.org/10.1155/2014/859286>.
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56. **Anil Kumar**, Om Prakash, Ajay Kaviti and Abhishek Tomar. Experimental Analysis of Greenhouse Dryer in No-Load Conditions. **Journal of Environmental Research and Development (ISSN: PARIS ISSN 0973-6921) Vol. 7 No. 4, (2013):1399-1406 (SCI Impact Factor: 0.607)**
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National Journals

02

1. **Anil Kumar**, Atul Sharma, A. Shukla. *Utilization of Solar Energy for Drying Applications.* **AISECT University Journal** Vol. III/Issue VI September 2014 (ISSN: 2278-4187).
2. Geetam Richhariya, Anil Kumar. *Grid Interactive Renewable Power in India.* **AISECT University Journal** Vol. III/Issue VI

International Conferences: 28

1. Dang Nguyen Thoai, Songtham Photaworn, **Anil Kumar**, Kulchanat Prasertsit and Chakrit Tongurai. *A Novel Chemical Method for Determining Ester Content in Biodiesel*. 2017 International Conference on Alternative Energy in Developing Countries and Emerging Economies (2017 AEDCEE) May 25-26, 2017 at Pullman Bangkok King Power Hotel, Bangkok, Thailand.
2. Dang Nguyen Thoai, **Anil Kumar**, Kulchanat Prasertsit and Chakrit Tongurai. *Evaluation of Biodiesel Production Process by the Determining of the Total Glycerol Content in Biodiesel*. 2017 International Conference on Alternative Energy in Developing Countries and Emerging Economies (2017 AEDCEE) May 25-26, 2017 at Pullman Bangkok King Power Hotel, Bangkok, Thailand.
3. **Anil Kumar**, Perapong Tekasakul, Prashant Singh Chauhan. *Application of Nano Particle/Fluid in Performance Enhancement of Solar Still: A Review* (Oral Presentation Paper Id: 307). International Conference on Nano for Energy and Water (NEW 2017) & Indo-French Workshop on Water Networking February 22nd – 24th, 2017 organized by University of Petroleum and Energy Studies, Dehradun, India.
4. Bhupendra Gupta, **Anil Kumar**, Prashant Baredar. *Experimental investigation on modified solar still using nanoparticles and water sprinkler attachment* (Oral Presentation Paper Id: 600). International Conference on Nano for Energy and Water (NEW 2017) & Indo-French Workshop on Water Networking February 22nd – 24th, 2017 organized by University of Petroleum and Energy Studies, Dehradun, India.
5. Prashant Baredar, Anand Singh, Bhupendra Gupta, **Anil Kumar**. *Optimization of biomass gasifier and solar PV hybrid renewable energy systems for rural electrification in India Poster Presentations*. Poster Presentation in International Conference on Nano for Energy and Water (NEW 2017) & Indo-French Workshop on Water Networking February 22nd – 24th, 2017 organized by University of Petroleum and Energy Studies, Dehradun, India.
6. Bhupendra Gupta, T.K. Mishra, Vivek Gupta and **Anil Kumar**. *Investigation of Wear Behaviour of Sintered Tungsten Carbide Reinforced Copper Powder Composite*. In proceeding: International Conference on Advances in Materials & Manufacturing (ICAMM-2016) e-ISBN: 978-93-86256-19-5 pp 169-176.
7. Prashant Baredar, S Suresh, **Anil Kumar** and Krishnakumar P. A *Review on Enhancement of Biogas Yield by Pre-treatment and addition of Additives*. MATEC Web of Conferences Volume 62, 2016. 2016 3rd International Conference on Chemical and Food Engineering. DOI <http://dx.doi.org/10.1051/mateconf/20166206002>. Published online 28 June 2016.
8. Om Prakash, Akarshi Dube, **Anil Kumar**, Arbind Kumar. *Prediction of Water Temperature of Scheffler Reflector Water Heater from using Fuzzy Logic*. International Conference on Alternative Energy Sources (ICAES-2016), Birla Institute of Technology, Mesra, Ranchi, Jharkhand held on 29-30 January 2016.
9. Anshika Rani, S. Suresh and **Anil Kumar**. *A review on application of integrated solar and bioenergy based technology*. Bio-Fuels and Bio-Energy: An International Conference and Exhibition (BICE-2016)23-25, February 2016 organised by Chemical Engineering Department and World Energy and Environment Technology, UK.
10. Anshika Rani, S. Suresh and **Anil Kumar**. *A Review on Application*

- of Desalination in the Agricultural Field*. 3rd International Conference on 'Environmental friendly Agriculture, Horticulture in planning of a smart city, held at Noor-Us-Sabah Palace, on 12th – 14th Dec 2015 at Bhopal, M.P. India. Jointly organized / supported by Janparishad, MANIT, JMBVSS, EPCO, NHB, MPCST & SusTranCon (USA).
11. Anshika Rani, S. Suresh and **Anil Kumar**. *Performance analysis of different techniques for separation of Sea-water*. CHEMCON 2015. Indian Chemical Engineering Congress. 68th Annual Session of Indian Institute of Chemical Engineers. Chemical Engineering: From Laboratory To Industry, 27-30 December 2015, Guwahati, India.
 12. Geetam Richhariya, **Anil Kumar**, Renu Singh. *Absorbance of natural dye extracted from hibiscus Sabdariffa and Bougainvillea*. WEENTECH Proceedings in Energy- Volume 2, Pages: 263-67, ISSN: 2059-2353, ISBN: 978-0-9932795-1-5. Publisher: World Energy and Environment Technology Ltd., Coventry, United Kingdom Publication date: 05 September 2015. International Seminar on Renewable Energy and Sustainable Development-RES2015 (15-17 June 2015). Edited by Mr.Tshering, College of Science and Technology, Royal University of Bhutan, Bhutan, Dr. Tshewang Lhendup, College of Science and Technology, Royal University of Bhutan, Bhutan, Dr. R Singh, IARI, New Delhi, India, Dr. A Kumar, PSU, Thailand.
 13. **Anil Kumar**, Devendra Singh, Tanisha Gaur “*Experimental Investigation and Comparison of Internal Heat Transfer coefficients of Single Slope Conventional and Hybrid Solar Stills*”. Global Conference on Energy and Sustainable Development (GCESD 2015), February 24-26, 2015 at Coventry University Technology Park, Puma Way, Coventry, West Midlands CV1 2TT.
 14. Prashant Singh Chauhan, **Anil Kumar** and Om Prakash. *Embodied Energy of Solar Energy System*. Global Conference on Energy and Sustainable Development (GCESD 2015), February 24-26, 2015 at Coventry University Technology Park, Puma Way, Coventry, West Midlands CV1 2TT.
 15. Pankaj J. Edla, Tonish Kumar Mandraha, Bhupendra Gupta and **Anil Kumar**. *Experimental investigation on single slope solar still during monsoon and post monsoon season*. Global Conference on Energy and Sustainable Development (GCESD 2015), February 24-26, 2015 at Coventry University Technology Park, Puma Way, Coventry, West Midlands CV1 2TT.
 16. Geetam Richariya and **Anil Kumar**. *Grid Interactive Renewable Energy Power in India*. International Conference on Emerging Trends in Science & Technology (ICETST-14), organised by AISECT University, Bhopal, 14-15th Feb 2014.
 17. *Davendra Suingh, Tanisha Gaur, Anil Kumar, Prashant Baredar. Calibration of Solar Power Meter by Linear Regression Method*. 4th International Conference on Advances in Energy Research (ICAER 2013)” organized by *Indian Institute of Technology, Bombay*, 10 -12th December 2013.
 18. Narayan Prasad Gupta, Sushma Gupta and **Anil Kumar**. *Performance Analysis of of Wind - Fuel Cell Hybrid System linked with BESS-VF Controller*” 4th International Conference on Advances in Energy Research (ICAER 2013)” organized by *Indian Institute of Technology, Bombay*, 10th -12th December 2013.
 19. Om Prakash, **Anil Kumar**. *ANFIS Prediction Model of a Modified Greenhouse Dryer under Active Mode in No-Load conditions in Winter Season*. International Conference on Advance Computing and Communication, ICACC-2013, March 16-17 2013, organised by Association of Computer Communication Education for National

- Triumph in Ranchi, India.
20. **Anil Kumar**, Prashant Singh Chauhan and Atul Sharma. *Drying Behaviour of Chilli under open sun and greenhouse condition*. An International Conference on Energy Security, Global Warming and Sustainable Climate. February 07-09, **2012**, SOLARIS 2012 at Varanasi, U. P., INDIA, jointly by Bag Energy Research Society (BERS), Indian Institute of Technology Delhi (IITD) and Banaras Hindu University (BHU).
 21. **Anil Kumar**, Kavita Bagri and Hargovind Soni. *The Effect of Water depth and Glass Cover Inclination on Thermal Efficiency of Domestic type Fibre Reinforced Plastic made Single Slope Solar Still*. An International Conference on Energy Security, Global Warming and Sustainable Climate. February 07-09, **2012**, SOLARIS 2012 at Varanasi, U. P., INDIA, jointly by Bag Energy Research Society (BERS), Indian Institute of Technology Delhi (IITD) and Banaras Hindu University (BHU).
 22. **Anil Kumar**, Rajesh Mandapati and Prashnat Baredar. *Effect of Flat Plate Collector on Yield of Domestic Type Single Slope Solar Still*. International Conference on Renewable Energy Utilization (ICREU) - **2012** Organized by Department of Electrical and Electronics Engineering Coimbatore Institute of Technology Coimbatore (INDIA) Jointly with Oklahoma State University, Stillwater, USA, 4-6th January 2012.
 23. Nalin Deshpande, Amrita Agrawal, Aakanksha. Dubey, **Anil Kumar**. Design Fabrication and Performance Analysis of Solar Air Heater. International Conference on Advances in Energy Research. December 9th -11th **2011**, Department of Energy Science and engineering, IIT Bombay.
 24. **Anil Kumar** Prashant Singh Chauhan and Prashnat Baredar. *Drying Behavior of Tomato slice under open Sun and greenhouse condition*. International Congress on Renewable Energy (ICORE-2011) 2-4 November, **2011**, Department of Energy, School of Engineering, Tezpur University, Assam. Concurrently with ICORE-2011.
 25. **Anil Kumar**. *Determination of Specific Heat of Jaggery: A New Approach*. 15th ISME International Conference on Advances in Mechanical Engineering, March 18-20, 2008, Rajiv Gandhi Technological University, Bhopal- M.P. (India).
 26. **Anil Kumar** and Ashish Shukla. *Energy Analysis and Economic Appraisal of a Greenhouse Solar Drying System (GSDS)*. Authored In: Souvenir of 3rd International Conference on Solar Radiation and Day Lighting [Solaris 2007], 7-9 February 2007. pp 29-30, held in IIT Delhi
 27. Bikash Sarkar, B.C. Mohapatra, N. Sarangi and **Anil Kumar**. *Thermal Modeling of a Greenhouse Prawn, Macrobrachium lamarrei (H.Milne Edwards) Drying under Natural Convection: An Experimental Validation*. Authored In: Proceedings of 3rd International Conference on Solar Radiation and Day Lighting [Solaris 2007], 7-9 February 2007. pp 73-82, held in IIT Delhi
 28. **Anil Kumar** and G. N. Tiwari. *Application of greenhouse technology: An Option for the rural development*. Authored In: Management of IT Infrastructure for Flexibility & Competitiveness, Proceeding, 27-30 December 2005. pp 674-682, held in RGPV Bhopal

National Conferences: 06

1. Devendra Singh, Tanisha Gaur, **Anil Kumar**. *Renewable Energy: Strategy to Enhance Environmental Protection*. National Seminar on Recent Advances in Pollution and Abatement, February 14-15, 2014

Organised By Chemical Engineering Department, Meerut Institute of Engineering and Technology, MIET, Meerut, Sponsored by All India Council For Technical Education, New Delhi. PROCEEDING Edited by Dr. Divya Srivastava, 108-116

2. **Anil Kumar et. al.**, *CO₂ Fixation using Photo-Synthesis: Technology Assessment in Indian Power Plants*. Authored in: CDTF National Conference on Efficiency Energy management in Urban & Rural Sector, April 28-29, 2011, New Delhi., 4-7.
3. **Anil Kumar**, Ashish Shukla and G.N. Tiwari. *Study of an earth-air heat exchanger: it's potential of mitigating the pollutant for composite climate of New Delhi*. Authored In: National Conference on Renewable Energy 2009 proceeding on 05-07 Nov, 2009, Jodhpur, 248-253.
4. **Anil Kumar**. *Future Energy Options*. Authored In: Swasraya Bharat 2006, National Self Reliance Week Celebration 11-17 October. Organised by Swadeshi Science Movement, Kerala and Cochin University of Science and Technology held at Kochi, Kerala.
5. **Anil Kumar**. *Solar Crop Drying in Rural India*. Authored In: National seminar on Rural Technologies organized by Vijnana Bharti, Madhya Pradesh on 4-5 March 2006 at Bhopal, M.P.
6. Ravi Gupta, G.N.Tiwari and **Anil Kumar**. *Application of greenhouse for medicinal plants*. Authored In: National Seminar on Role of Medicinal and Aromatic Plants in Ayurveda, Unani and Siddha Systems of Medicine, Proceeding, 4-5 March 2005. pp 104.

Books: 07

1. **Energy Environment Ecology and Society**, 2010 Edition, Authored by **Anil Kumar** and K. Sudhakar, B S Publication (ISBN: 978-81-7800-257-6).
2. **Fundamentals of Mechanical Engineering**, 2012 Edition, Authored by **Anil Kumar**, and K. Sudhakar, B S Publication (ISBN: 978-93-81075-58-6).
3. **Environmental Science: Fundamental, Ethics & Laws**, 2013 Edition Authored by Ashish Shukla, Renu Singh and **Anil Kumar**, IK International Publishing House Pvt. Ltd., (ISBN: 9789382332848).
4. **Advance Internal Combustion Engine** 2014 Edition, Authored by K. Sudhakar, and **Anil Kumar** B S Publication, (ISBN: 978-93-83635-06-1).
5. **Manufacturing Process** 2017 Edition, Authored by Bhupendra Gupta, Mukesh Pandey, **Anil Kumar**, Dhanpat Rai Publishing Company (P) Ltd., New Delhi-India (ISBN: 978-93-5216-171-3).
6. **Biofuels and Bioenergy (BICE2016)** Edited by S. Suresh, **Anil Kumar**, Renu Singh, Ashish Shukla and C.M. Krishna, International Conference, Bhopal, India, 23-25 February 2016. Publish from Springer Publication. ISBN 978-3-319-47257-7.
7. **Solar Drying Technology: Design, Testing, Modeling, Economics, and the Environment** by Om Prakash and **Anil Kumar**, Springer Publication, Singapore (In Press). ISBN 978-981-10-3833-4

Chapters in Books / Monographs: 05

1. Atul Sharma, Jaya Srivastava, **Anil Kumar**. **A comprehensive overview of renewable energy status in India**. In "Environmental Sustainability – Role of green technologies". Eds. P. Thangavel, G.Sridevi. Springer India. ISBN: 978-81-322-2055-8. Pages 91-105

	<p>(2015).</p> <ol style="list-style-type: none"> 2. Anil Kumar, Geetam Richhariya, Atul Sharma. Chapter: Solar Photovoltaic Technology and Its Sustainability. Energy Sustainability Through Green Energy, edited by Atul Sharma, Sanjay Kumar Kar, 04/2015: chapter 1: pages 3-25; Springer, ISBN: 978-81-322-2336-8. 3. Anil Kumar, Biswajit Mandal, Atul Sharma. Chapter: Advancement in Biogas Digester. Energy Sustainability Through Green Energy, edited by Atul Sharma, Sanjay Kumar Kar, 04/2015: chapter 14: pages 351-382; Springer, ISBN: 978-81-322-2336-8. 4. Geetam Richhariya and Anil Kumar. Chapter 4: Review on Performance Affected Parameters for Dye Sensitized Solar Cell. Energy Security and Sustainability Edited by Amritanshu Shukla Atul Sharma Taylor & Francis Group, 6000 Broken Sound Parkway NW, Suite 300, Boca Raton, FL 33487-2742 CRC Press Print ISBN: 978-1-4987-5443-9, eBook ISBN: 978-1-4987-5444-6. 5. Om Prakash, Saket Pratap, and Anil Kumar. Chapter 10: Energy Security and Sustainability through Wind Energy. Energy Security and Sustainability Edited by Amritanshu Shukla Atul Sharma Taylor & Francis Group, 6000 Broken Sound Parkway NW, Suite 300, Boca Raton, FL 33487-2742 CRC Press Print ISBN: 978-1-4987-5443-9, eBook ISBN: 978-1-4987-5444-6 <p>Conference/Seminar Proceeding: 02</p> <ol style="list-style-type: none"> 1. International Seminar on Renewable Energy and Sustainable Development-RES2015. Edited by Mr. Tshering, College of Science and Technology, Royal University of Bhutan, Bhutan, Dr. Tshewang Lhendup, College of Science and Technology, Royal University of Bhutan, Bhutan, Dr. R Singh, IARI, New Delhi, India, Dr. A Kumar, PSU, Thailand. WEENTECH Proceedings in Energy- Volume 2, Pages: 263-67, ISSN: 2059-2353 ISBN: 978-0-9932795-1-5. Publisher: World Energy and Environment Technology Ltd., Coventry, United Kingdom Publication date: 05 September 2015. 2. International Conference on Energy, Environment and Economics - ICEEE2016. Edited by Dr. R Singh, IARI, New Delhi, India, Dr. Anil Kumar, Prince of Songkla University, Hat Yai, Thailand. WEENTECH Proceedings in Energy- Volume 3, Pages: 263-67, ISSN: 2059-2353 ISBN: 978-0-9932795-2-2. Publisher: World Energy and Environment Technology Ltd., Coventry, United Kingdom Publication date: 12 September 2016.
Patent	<p>Modified Greenhouse Dryer, Application No.: 783/MUM/2013 A, Official Journal of the Patent Office Issue No. 36/2013 date 06/09/2013, International Classification F26B19/00.</p>
Member of professional bodies	<ul style="list-style-type: none"> • Member, Institute of Engineers, (vide no. M 147564-3, date of election 30.09.13) • Life Membership, Global Earth Society for Environmental Energy and Development. (L/165/12). • Life Membership, Solar Energy Society of India (LM/1757/2012). • Life Membership, India Society for Technical Education (LM-51948).

Achievements/ Awards

- **Research Excellence Award 2016:** The researcher has Top 20 Publications from the Web of Science database, honoured by **President Dr. Chusak Limsakul, Prince of Songkla University, Hat Yai, Thailand.**
- **Appreciation** for outstanding service in the reviewer's committee and active reviewers during the year 2015 from Elsevier in January 2016.
- **Appreciation** for outstanding service in the reviewer's committee and active reviewers during the year 2015 from International Institute of Engineers.
- **Best Paper Award** in Global Conference on Energy and Sustainable Development (GCESD 2015), February 24-26, 2015 at Coventry University Technology Park, Puma Way, Coventry, West Midlands CV1 2TT.
- **Session Chair,** Global Conference on Energy and Sustainable Development (GCESD 2015), February 24-26, 2015 at Coventry University Technology Park, Puma Way, Coventry, West Midlands CV1 2TT.
- **Session Chair,** 2nd International Conference on Interdisciplinary Research in Engineering Management, Pharmacy and Science, 19-22 February, Sagar Society of Interdisciplinary Research & Technology, Bhopal.
- **Session Chair,** Renewable Energy Session, Industrial, Mechanical and Production Engineering: Advancements and Current Trends, MANIT Bhopal, Bhopal, International Conference, Madhya Pradesh, November 27-29 2014.
- **Member,** Academic Advisory Committee, Sagar Institute of Tech.-Excellence, Bhopal, since 2014.
- **Guest of Honor,** National Level Working Model Competition "Nirmaan 2k14" organised by Sagar Institute of Science & Technology (SISTec), Bhopal during 3rd & 4th April 2014, 2015.
- **Co-Chair and Guest Speaker** in International Conference on Emerging Trends in Science & Technology organised by AISECT University, Bhopal, 14-15th Feb 2014.
- **Session Chair** in International Conference on Global and Scenario in Environment and Energy, organised by Dept. of Energy & Chemical Engg., Maulana Azad National Institute of Technology (MANIT), Bhopal, during 14-16 March 2013.
- **Observer** in JEE (Mains) 2012, 2013, 2014 and 2015
- **Observer** in Pre Engineering Test, for Madhya Pradesh, May 2012.
- Selected under the scheme of **Early Faculty Induction Programme-2004** sponsored by AICTE and conducted by IIT Bombay.

	<ul style="list-style-type: none"> • Senior Research Fellowship (SRF) Award for pursuing Ph.D. in 2001, Indian Institute of Technology, Delhi. 																								
Number of P.G. Projects guided	M.Tech. 20 completed																								
Number of PhD guided	05 Guided and Ph.D. 04 progress																								
	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Name</th> <th>Topic</th> <th>Supervisors</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Trilok Singh Bisoniya (Scholar No.113213203)</td> <td>Parametric Thermal Performance and Energy Analysis of Earth-Air Heat Exchanger</td> <td>Dr. Anil Kumar Dr. Prashant Baredar</td> </tr> <tr> <td>2</td> <td>Uzma Qureshi (Scholar No.113213202)</td> <td>Experimental Investigation and Soft Computing Modelling of Hybrid PVT Solar Collector</td> <td>Dr. Prashant Baredar Dr. Anil Kumar</td> </tr> <tr> <td>3</td> <td>Vipin Shrivastava (Scholar No.113213204)</td> <td>Drying Kinetics and Heat Transfer Analysis of Fenugreek Using Modified Indirect Solar Dryer (2015)</td> <td>Dr. Anil Kumar Dr. Prashant Baredar</td> </tr> <tr> <td>4</td> <td>Om Prakash (Scholar No. 123113202)</td> <td>Design and Performance Analysis of Modified Greenhouse Dryer (2015)</td> <td>Dr. Anil Kumar (Sole Guide)</td> </tr> <tr> <td>5</td> <td>Prashant Singh Chauhan (Scholar No. 133118001)</td> <td>Thermal Modeling of North Wall Insulated Greenhouse Dryer (2017)</td> <td>Dr. Anil Kumar (Sole Guide)</td> </tr> </tbody> </table>	S. No.	Name	Topic	Supervisors	1	Trilok Singh Bisoniya (Scholar No.113213203)	Parametric Thermal Performance and Energy Analysis of Earth-Air Heat Exchanger	Dr. Anil Kumar Dr. Prashant Baredar	2	Uzma Qureshi (Scholar No.113213202)	Experimental Investigation and Soft Computing Modelling of Hybrid PVT Solar Collector	Dr. Prashant Baredar Dr. Anil Kumar	3	Vipin Shrivastava (Scholar No.113213204)	Drying Kinetics and Heat Transfer Analysis of Fenugreek Using Modified Indirect Solar Dryer (2015)	Dr. Anil Kumar Dr. Prashant Baredar	4	Om Prakash (Scholar No. 123113202)	Design and Performance Analysis of Modified Greenhouse Dryer (2015)	Dr. Anil Kumar (Sole Guide)	5	Prashant Singh Chauhan (Scholar No. 133118001)	Thermal Modeling of North Wall Insulated Greenhouse Dryer (2017)	Dr. Anil Kumar (Sole Guide)
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Project/ Consultancy undertaken	<ul style="list-style-type: none"> • Optimization of operating parameters for rubber sheet fast drying Amount of grant: 440,000 Thai Baht. Funding Agency: National Research University Grant, Thailand, Year: 2016. PI Prof. Perapong Tekasakul, CO-PI, Dr. Anil Kumar. • Investment Grade Energy Audit of Rajgarh Collectorate for MP Urja Vikas Nigam, Bhopal, Amount of grant. • Testing of Thermal Efficiency of Biomass Stove for Sriram Deo & Company, Bhopal. 																								
Administrative work done	<ul style="list-style-type: none"> ➤ Co-Coordinator, Dept. Research Progress Committee, MANIT, Bhopal. Since Sept. 2014 ➤ Prof. I/c Industrial Visits & Educational Tours, Energy Centre, MANIT, Bhopal Since Sept. 2014 ➤ Prof. I/c Time Table, Energy Centre, MANIT, Bhopal from July 2014 to present ➤ Member SC/ST Cell, MANIT, Bhopal from 2013 to 																								

	<p>present</p> <ul style="list-style-type: none"> ➤ Coordinator, Rajya Bhasha Karyanavan Simiti, MANIT, Bhopal 2013-14 ➤ Coordinator, M.Tech. (RE), Energy Centre, M.A.N.I.T., Bhopal from July 2013 to present ➤ Warden, Hostel No.1, M.A.N.I.T., Bhopal Sept. 2012 to August 2013 ➤ Member, Board of Studies, Department of Energy, M.A.N.I.T., Bhopal July 2010 to present ➤ Departmental TPO Coordinator, TPO Cell, M.A.N.I.T., Bhopal Sept. 2010 to present ➤ Member, Anti Ragging Committee, M.A.N.I.T., Bhopal since July 2010 ➤ Question Paper setter, Rajiv Gandhi Poudyogiki Vishwavidyalaya, Bhopal (MP State Technological University, Bhopal) University, Ujjain Engineering College, Ujjain, Barkatullah University, Bhopal, Institution of Engineers (India), Peoples University, Bhopal Aug 2005 to present ➤ In-charge, Solar Energy Lab, Energy Centre, M.A.N.I.T., Bhopal since May 2010. ➤ Exam Coordinator, Dept. of Energy, M.A.N.I.T., Bhopal August 2010 to October 2012. ➤ Member, Board of Studies, Department of Mech. Engg., U.I.T., RGPV, Bhopal July 2005 to July 2010. ➤ Deputy Organiser, Central Valuation, Examination Centre, RGPV, Bhopal June 2007 to July 2008 ➤ Coordinator, Electronic Checking System & Control valuation, R.G.P.V., Bhopal July 2008 to May 2010
<p>International Conference/Workshops/Seminar/STTP Organised</p>	<ol style="list-style-type: none"> 1. Co-Coordinator, "Global Conference on Renewable Energy" (GCRE-2015) 04-06 March, 2016 organised by National Institute of Technology Patna. NIT, Patna in collaboration with CESD-Net. 2. Coordinator, Bio-Fuels and Bio-Energy: An International Conference and Exhibition (BICE-2016) 23-25, February 2016 organised by Chemical Engineering Department and World Energy and Environment Technology Limited (WEENTECH), United Kingdom in M.A.N.I.T, Bhopal. 3. Coordinator, self-sponsored One week STTP on Recent Trends in Solar and Wind Energy (RTSWE-2015) from 13-17- Feb 2015, Organized at Dept. of Mechanical Engineering, MANIT, Bhopal. 4. Coordinator, self sponsored Two Days International Workshop on Physics of Passive House Design during 24-25th December 2014, Organized Jointly with WEENTECH. Ltd, UK and Energy Centre MANIT, Bhopal, MANIT, Bhopal. 5. Coordinator, self-sponsored One Week Short Term

	<p>Training Programme on Energy Conversion Systems-Fundamentals and Applications during 26-30th May 2014, Organized at Energy Centre, MANIT, Bhopal.</p> <ol style="list-style-type: none"> 6. Coordinator, One week Short Term Training Programme on Bio-Energy Conversion Technologies during 24-28th December 2013, Organized at Dept. of Chemical Engg., Bhopal. 7. Coordinator, One week Short Term Training Programme on Recent Advances in Renewable Energy System during 21-25th October 2013, Organized at Dept. of Energy, M.A.N.I.T., Bhopal. 8. Coordinator, Tatkal Bhashad Pratiyogita organized for contract teachers, under Rajya Bhasha Karayavan Simiti, MANIT, Bhopal on 19th Sept. 2013. 9. Coordinator, One week Short Term Training Programme on Solar Energy and its Applications during 24-28th June 2013, Organized at Dept. of Energy and Mechanical Engineering, M.A.N.I.T., Bhopal. 10. Coordinator Two Days National Workshop on Emerging Technologies for Conversion of Biomass to Bio-fuel during 22-23 September, 2012, Dept. of Energy, M.A.N.I.T., Bhopal. 11. Coordinator, Poster Competition of National Science Day Celebrations 2012 on Clean Energy Options & Nuclear Safety organized by Dept. of Energy, MANIT, Bhopal on 26th March 2012. 12. Coordinator, Slogan Competition of National Science Day Celebrations 2012 on Clean Energy Options & Nuclear Safety organized by Dept. of Energy, MANIT, Bhopal on 26th March 2012. 13. Coordinator, Two Days National Seminar on Energy, Environment and Sustainability during 01-02 March, 2012, Dept. of Energy, M.A.N.I.T., Bhopal.
<p>Lectures Delivered in Short Term Courses / Faculty Development Programmes</p>	<ul style="list-style-type: none"> ○ Keynote Speaker in "International workshop on "Challenges and issues in the development of distributed solar and wind energy systems" and "Fourth International Conference on Energy Systems and Developments 2017" organised by KJEI'S Trinity College of Engineering and Research, Pune from February 20-24, 2017, Pune, India. ○ Keynote Speaker. National Conference on "Advances in Renewable and Sustainable Energy-2015 (ARSE-2015)" March 18-20, 2015 at Jai Narain College of Technology (JNCT), Bhopal (M.P.) ○ Key Note Address in 2nd International Conference on Emerging Trends in Agriculture, Horticulture and Environmental Engineering Conference, 15th to 17th November 2014, Bhopal, Madhya Pradesh, India. ○ Two days National Seminar on Green Manufacturing

	<p>Organized by Department of Mech. Engg., IES College of Technology, Bhopal (India) during 13-14th October 2014.</p> <ul style="list-style-type: none"> ○ National workshop on Green Chemistry and Green Engineering for Sustainable Environment Organised by Department of Chemical Engineering, Institute of Engineering & Science, IPS Academy, Indore (India) during 21-22 Aug 2014. ○ Short Term Training Program on Power Electronics Applications In Renewable Energy Sources (PARES 2014) Organised by Department of Electrical Engineering of Maulana Azad National Institute of Technology, Bhopal from 30th June – 4th July 2014. ○ Short Term Training Programme on Green Chemistry and Engineering: Past, Present and Future Organised by Department of Chemical Engineering, M.A.N.I.T., Bhopal from 30th June-4th July 2014. ○ Faculty Development Program on Advanced Technologies adopted in Renewable Energy Sources organized at Barkatullah University Institute of Technology (BUIIT) from June 23rd-27th, 2014. ○ Short Term Course on Ordinary and Partial Differential Equation: Analysis and Applications organized at Department of Mathematics & Computer Applications during 27-31 May, 2014. ○ Faculty Development Programme on Recent Advances in Renewable Energy & its Application Including Automobile Industries sponsored by Indian Society of Technical Education(ISTE) & Punjab Technical University(PTU) organized by Prestige Institute of Engineering & Science, Indore from 5th _9th May, 2014. ○ Short Term Course on Recent Trends in Solar and Wind Energy organised by Dept. of Mech. Engg, at Maulana Azad National Institute of Technology (MANIT), Bhopal, during 07-11 Feb, 2014. ○ Short Term Training Programme on Emerging Trends in Electric Power and Energy Systems (ETEPES-2014) organised by Department of Electrical Engineering of Maulana Azad National Institute of Technology, Bhopal from 1-5 jan'14. ○ Short Term Course on Advances in Heat and Mass Transfer organised by Dept. of Mech. & Chemical Engg, at Maulana Azad National Institute of Technology (MANIT), Bhopal, during 03-07 June, 2013.
<p>Invited Talks</p>	<ul style="list-style-type: none"> ❖ Guest Speaker in International Conference on Emerging Trends in Science & Technology organised by AISECT University, Bhopal, 14-15th Feb 2014. ❖ Expert Lecturer in National Science Day Celebration on

	<p>Solar Photovoltaic –Thermal Applications organised by Regional Science Centre, Bhopal, 12th March 2014.</p> <ul style="list-style-type: none"> ❖ Expert Lecturer, Sagar Institute of Science & Technology (SISTec), Bhopal on 21th Sept. 2013 ❖ Series of Expert Lecturer, Vindhya Institute of Technology & Science, Indore during 27-29th Dec 2012. ❖ Expert Lecturer, Vindhya Institute of Technology & Science, Indore on 07th Jan 2012. ❖ Expert Lecturer, Sagar Institute of Research & Technology, Bhopal on 28th March 2012 ❖ Expert Lecturer, Sagar Institute of Science & Technology (SISTec), Bhopal on 17th March 2012.
<p>Reviewer for the International Journal</p>	<ul style="list-style-type: none"> ✓ Renewable and Sustainable Energy Reviews ✓ International Journal of Sustainable Energy ✓ Journal of Fundamentals of Renewable Energy and Applications ✓ Journal of Alternate Energy Sources & Technologies ✓ Journal of Construction in Developing Countries ✓ International Journal of Green Energy ✓ International Institute of Engineers
<p>Any other information</p>	<ul style="list-style-type: none"> • Successfully completed Thai Language Course organised by PSU International Affair Office, Prince of Songkla University, Hat Yai, Thailand from September 8-November 3, 2016. • Have done Basic-1 Japanese language course from 30.06.1998 to 19.11.1998 from FAAAI in cooperation of Association for overseas Technical Scholarship (AOTS) New Delhi.

Anil Kumar