

<b>Name</b>	: Prof.(Dr.) Onkar Singh
<b>Father's Name</b>	: Dr. G. S. Yadav
<b>Date of Birth</b>	: 08 <sup>th</sup> October, 1968
<b>Spouse</b>	: Mrs. Parvin Yadav
<b>Children</b>	: Sneha, Prateek
<b>Communication Address</b>	: Vice Chancellor Madan Mohan Malaviya University of Technology (Formerly Madan Mohan Malaviya Engineering College) Deoria Road, Gorakhpur-273010 (U.P.) - INDIA
<b>Phone (Off.)</b>	: 91-551-2273958
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<b>Mobile</b>	: 9415114011
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<b>Present Assignment</b>	: Vice Chancellor Madan Mohan Malaviya University of Technology (Formerly Madan Mohan Malaviya Engineering College) Deoria Road, Gorakhpur-273010 (U.P.) – INDIA

#### Research Activities :

Sl. No.	Project	Funded by	Duration
1.	‘Study on methods of improving the performance of combined gas & steam turbine plants’	All India Council for Technical Education, Government of India	Three years
2.	‘Experimental investigations on transpiration cooling for gas turbine blades’	SERC, Deptt. of Science & Technology, Government of India under SERC Fast Track Proposal	Three years
3.	‘Real time integrity monitoring of composite materials using magnetostrictive (MS) materials’	All India Council for Technical Education, Government of India	Two years
4.	‘Performance evaluation and life cycle analysis of Biodiesel from low value industrial by-products’	All India Council for Technical Education, Government of India	Two Years
5.	‘Development of Diffusion Absorption Cycle Based Solar Water Cooler and Refrigerator’	Council of Science & Technology, U.P.	Two Years
6.	‘Modernization of Advanced Manufacturing Science Laboratory’	All India Council for Technical Education, Government of India	Two Years
7.	Life Cycle Analysis of Biodiesel Fuels	University Grants Commission, New Delhi	Three Years
8.	Investigations on failure of Gas turbine blades	All India Council for Technical Education, Government of India	Two Years

#### Research Guidance :

- Guided 23 B. Tech. Projects
- Guided 17 M. Tech. Dissertations.
- Guided 09 Ph.D.
- Presently Guiding 04 Ph. D. students

***Topics of the Ph.D. supervised – Name of Student***

- Thermodynamic analysis of combined cycle gas/steam cycle and co-generation plants – SANJAY
- Thermodynamic analysis of steam injected gas turbine and combined gas/steam cycle – JAGDISH PRASAD YADAV
- Analysis and design of methodologies for software quality/reliability measures – RAGHURAJ SINGH
- Design and Analysis of Air Engine – BHARAT RAJ SINGH
- Development, characterization and performance evaluation of biodiesel – PRAVIN KUMAR SINGH
- Comparative evaluation of CI engine performance and life cycle analysis for Jatropha, Karanja and Neem biodiesel fuels – ASHOK YADAV
- Investigation into transpiration cooling of gas turbine blades used in gas/steam combined cycle power plants – SANJAY KUMAR
- Thermodynamic analysis and optimization of heat recovery steam generator (hrsg) for gas/steam combined cycle – MEETA SHARMA
- Modeling Adaptive Control of Layer hardening of steel beams subjected to Electromagnetic Induction - MOHAN KRISHNA MISRA

**Collaborative Projects :**

- “Design and Development of Lightweight Motorised Wheel Chair” in collaboration with Artificial Limbs Manufacturing Corporation Ltd., Kanpur, 2008-09. Completed
- “Development of Solar powered tricycle for handicapped” in collaboration with Artificial Limbs Manufacturing Corporation Ltd., Kanpur. Completed

**Achievements :**

**Awards & Honours:**

- AICTE Young Teacher Career Award in year 2000
- National Record for development of air turbine engine for running motor bike - LIMCA Book of Records, March 2014, <http://www.limcabookofrecords.in/transport/7.aspx>
- National Record in LIMCA Book of Records : <http://limcabookofrecords.in/recordDetail.aspx?rid=625> as First academicians' work in US school text book, February 2015. Weblink for media coverage: <http://www.aninews.in/videogallery2/33804-up-professor-039-s-research-on-global-warming-included-in-us-school-syllabi.html>
- 100 Most Influential Vice Chancellors Award – presented on 23rd June 2016 in Hotel Taj, Mumbai.

- Asia's Education Excellence Award – Exemplary Leader award presented on 5th August 2016, Pan Pacific, Marina Square, Singapore
  - Letter of Appreciation from Vice Chancellor, U.P. Technical University, Lucknow (U.P.), 2006
  - Letter of Appreciation from Vice Chancellor, Mahamaya Technical University, Noida (U.P.), 2011
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#### Scholarships:

- National Scholarship from high school standard to graduation.
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#### Memberships:

- Fellow, The Institution of Engineers (India).
  - Life Member, Indian Society for Technical Education.
  - Life Member, Oil Technologists Association of India.
  - Member, Indian Society of Heating, Refrigerating and Air Conditioning Engineers.
  - Member, American Society of Mechanical Engineers, USA.
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#### Present Membership of Apex Bodies of Outside Institutions/Organizations:

- Member, Board of Governors, Indian Institute of Technology, Kanpur (U.P.)
  - Member, Board of Governors, Indian Institute of Technology, BHU, Varanasi (U.P.)
  - Member, Northern Regional Committee, All India Council for Technical Education, New Delhi
  - Member, General Council, National Board of Accreditation, New Delhi
  - Member, Finance Committee, National Board of Accreditation, New Delhi
  - Member, Board of Governors, Gautam Budha University, Greater Noida (U.P.)
  - Member, General Council, Ram Manohar Law University, Lucknow (U.P.)
  - Member, Court, University of Allahabad, Allahabad (U.P.)
  - Member, Board of Governors, Kamla Nehru Institute of Technology, Sultanpur (U.P.)
  - Member, Board of Governors, U.P. Textile Technology Institute, Kanpur (U.P.)
  - Member, Governing Council, **Jaypee University of Information Technology, Wagnaghat, Solan (H.P.)**
  - Member, Executive Council, **Allahabad State University, Allahabad (U.P.)**
-

### **Past Membership of Apex Bodies of Outside Institutions/Organizations:**

- Member, Steering Committee, State Project Facilitation Unit, TEQIP-II World Bank Project, Lucknow.
- Member, Board of Governors, Lucknow College of Architecture, Lucknow
- Elected Member, Mechanical Engineering Division, Executive Committee 2012-14 of The Institution of Engineers (India), U.P. State Centre, Lucknow.
- Secretary, Alumni Association, H.B.T.I., Kanpur
- Treasurer, Alumni Association, H.B.T.I., Kanpur

### **Administrative Experience :**

- **Vice Chancellor, Madan Mohan Malaviya University of Technology, Gorakhpur**
- **Vice Chancellor, Uttar Pradesh Technical University, Lucknow**
- **Coordinator, Uttar Pradesh State Entrance Examination, UPSE-2011 conducted by Mahamaya Technical University, Noida**
- **Dean, Academic Affairs, H.B.T.I., Kanpur**
- **Head, Mechanical Engineering Department, H.B.T.I., Kanpur**
- **Senior Superintendent Examination, H.B.T.I., Kanpur**
- **Controller of Examination, H.B.T.I., Kanpur**
- **Warden, West Campus Hostel – II , H.B.T.I., Kanpur**
- **Faculty Advisor, Association of Mechanical Engineers, H.B.T.I., Kanpur**
- **Post Graduate Coordinator, Mech. Engg. Deptt., H.B.T.I., Kanpur**
- **Assistant Examination Superintendent, H.B.T.I., Kanpur**
- **Secretary, Alumni Association, H.B.T.I., Kanpur**
- **Dy. Coordinator, Science & Technology Entrepreneurs Park, H.B.T.I., Kanpur**
- **Assistant Coordinator, Combined Entrance Examination, 1994, organized by Instt. of Engg. & Technology, Lucknow**
- **Assistant Coordinator, Uttar Pradesh State Engineering Admission Test, 1999, organized by Instt. of Engg. & Technology, Lucknow**
- **Programme Officer, National Service Scheme, I.E.T., Lucknow**
- **Warden, Hostel Raman - B, I.E.T., Lucknow**

### **Conferences / Seminar Organized :**

- **Worked as Joint Organizing Secretary, All India Seminar on Condition Monitoring & Diagnostics of Mechanical Systems, Lucknow, India, 6-7 March, 1998.**
- **Worked as Organizing Secretary, National Seminar on "E – Commerce and Cyber Laws", Kanpur , India, 17th February, 2001.**
- **Worked as Convener, National Seminar on "Advances of Engineering Systems and Applications", Kanpur , India, 6 – 7 April, 2002.**
- **Worked as Convener, National Seminar on "Advances of Engineering Systems and Applications", Kanpur , India, 5 – 6 April, 2003.**
- **Worked as Convener, International Alumni Meet and Seminar on "Role of Technical Education for Upliftment of the Society", Kanpur, India, 25–27 Nov., 2005.**

- Worked as Organising Secretary, International Conference on "Challenges and Strategies for Sustainable Energy, Efficiency and Environment", Lucknow, India, 10-11 June, 2006.
- Worked as Organizing Secretary, Public Awareness Programme on "Atoms for Peace", Kanpur, India, 25-26 August, 2008.
- Worked as Convener, All India Seminar on "Energy Management in Indian Perspective", Lucknow, October 17-19, 2008, Organized by The Institution of Engineers(India), U.P. State Centre, Lucknow.
- Worked as Chairman, MECHARNIVAL-2009, MECHARNIVAL-2010, MECHARNIVAL-2011 and MECHARNIVAL-2012 Annual Student Technical Festival organized by Mechanical Engineering Department, H.B.T.I., Kanpur.
- Worked as Convener for National Conference on "Advances in Management of Energy Efficiency and Clean Environment (AMEECE)" , April 3-4, 2010 , Harcourt Butler Technological Institute, Kanpur, India.
- Worked as Convener for International Conference on "Clean Energy Technologies and Energy Efficiency for Sustainable Development" December 27-29, 2010, Hotel Competent Palace, Dehradun, India.
- Organized a Short Term course on "CAD – CAM" as Co-ordinator in Mechanical Engineering Department, Instt. Of Engg. & Technology, Lucknow, India.
- Organized a Workshop on "Computer Aided Engineering" (with special focus on finite element analysis technique and dynamic simulation technique), June 8-10, 2007, at Mechanical Engg. Deptt., H.B.T.I., Kanpur.
- Organized a Workshop on "Industry Academia Interaction for Strengthening Technical Education", 30th August, 2013, PHD House, Gomti Nagar, Lucknow, India.
- Worked as Convener for 30th National Convention of Mechanical Engineers and National Seminar on Green Technology in Power Sector, The Institution of Engineers(India), September 27-28, 2014, M.M.M. University of Technology, Gorakhpur, India.

Organized a Short Term course on "CAD – CAM" as Co-ordinator in Mechanical Engineering Department, Instt. Of Engg. & Technology, Lucknow, India.

Organized a Workshop on "Computer Aided Engineering with special focus on finite element analysis technique and dynamic simulation technique" as Co-ordinator in Mechanical Engineering Department, Harcourt Butler Technological Institute, Kanpur, India, June 8-10,2007.

Organized a Workshop on "Industry Academia Interaction for Strengthening Technical Education", 30th August, 2013, PHD House, Gomti Nagar, Lucknow, India.

Short Term Courses & Workshops Organized :

Organized a Short Term course on "CAD – CAM" as Co-ordinator in Mechanical Engineering Department, Instt. Of Engg. & Technology, Lucknow, India.

Organized a Workshop on "Computer Aided Engineering with special focus on finite element analysis technique and dynamic simulation technique" as Co-ordinator in Mechanical Engineering Department, Harcourt Butler Technological Institute,

**Kanpur, India, June 8-10,2007.**

**Organized a Workshop on "Industry Academia Interaction for Strengthening Technical Education", 30th August, 2013, PHD House, Gomti Nagar, Lucknow, India.**

**Reviewer :**

**Reviewer of International Journal of Mechanical Engineering Education, U.K., 'International Journal of Engineering Science and Technology, Nigeria' & 'Journal of Procc. Of Institution of Mechanical Engineers, U.K. (I MechE), 'Applied Thermal Engineering', International Scientific Journal.**

**On Editorial Board of the International Journal of Rotating Machinery, Hindawi Publishing Corporation (<http://www.hindawi.com/journals/ijrm/editors.html>) On Advisory Board of the International Society for Socio-Techno Welfare - ISST Journal of Mechanical Engineering <http://www.isst.org.in/index.php?advisory>)**

**Publications - Books :**

- **Engineering Thermodynamics**  
ISBN 81 -224-1750-7  
Publisher: New Age International Publishers, New Delhi,  
Year of Publication : 2005
- **Applied Thermodynamics**  
ISBN 81 -224-1496-6, Second Edition: ISBN 81-224-1763-9, Third Edition:  
ISBN 978-81-224-2583-3, Fourth Edition: ISBN 978-81-224-3686-0  
Publisher: New Age International Publishers, New Delhi,  
Year of Publication : 2003,2005,2009,2015
- **Introduction to Mechanical Engineering**  
(Thermodynamics & Strength of Materials)  
ISBN 81 -224-1422-2  
Publisher: New Age International Publishers, New Delhi,  
Year of Publication : 2nd Edition 2002
- **Thermal Turbomachines**  
Publisher: Wiley India Ltd., New Delhi  
Print ISBN : 9788126546855  
eISBN: 9788126581597  
Year of Publication : 2014
- **Elements of Mechanical Engineering**  
Publisher: New Age International Publishers, New Delhi,  
Print ISBN: 978 -93-86070-17-3,  
Year of Publication : 1st Edition 2017
- **Proceedings of All India Seminar on "Condition Monitoring & Diagnostics of Mechanical Systems", , Lucknow, India, 6-7 March, 1998**
- **Challenges and Strategies for Sustainable Energy, Efficiency, and Environment**  
ISBN 81-224-1910-0  
Publisher: New Age International Publishers, New Delhi,  
Year of Publication : 2006, Editor

- Proceedings of National Conference on "Advances in Management of Energy Efficiency and Clean Environment" Kanpur, India 3-4 April, 2010, Editor
- Proceedings of International Conference on "Clean Energy Technologies and Energy Efficiency for Sustainable Development" December 27-29, 2010, Dehradun, India, Editor
- Proceedings of 30th National Convention of Mechanical Engineers and National Seminar on "Green Technology in Power Sector", September 27-28, 2014, Gorakhpur, India, Editor, ISBN:978-93-83842-83-4, Excel India Publishers, New Delhi, 2014.

#### Contribution in Book

- The Impact of Air Pollution on Health, Agriculture and Technology"; ISBN:978-953-307-528-0-  
Full Chapter: Influence of the Air Engine on Global Warming Issues - 21st Century Fuel Technology - by Bharat Raj Singh and Onkar Singh In Tech Open Access Publisher, University Campus, STePRiSlavkaKrautzeka 83/A 51000 Rijeka, Croatia. DOI: <http://dx.doi.org/10.5772/16708>  
Link for Book Chapter: <http://www.intechopen.com/articles/show/title/influence-of-the-air-engine-on-global-warming-issues-21st-century-fuel-technology>
- Fossil Fuel and the Environment, ISBN: 978-953-51-0277-9 -  
Full Chapter: Global Trends of Fossil Fuel Reserves and Climate Change in the 21st Century - by Bharat Raj Singh and Onkar Singh In Tech Open Access Publisher, University Campus, STePRiSlavkaKrautzeka 83/A 51000 Rijeka, Croatia. DOI: <http://dx.doi.org/10.5772/38655>  
Link for Book Chapter: <http://www.intechopen.com/articles/show/title/global-trends-of-fossil-fuel-reserves-and-climate-change-in-the-21st-century>
- Global Warming - Impacts and Future Perspective, ISBN: 978-953-51-0755-2 -  
Full Chapter: Full Chapter: Study of Impacts of Global Warming on Climate Change: Rise in Sea Level and Disaster Frequency- by Bharat Raj Singh and Onkar Singh In Tech Open Access Publisher, University Campus, STePRiSlavkaKrautzeka 83/A 51000 Rijeka, Croatia. DOI: <http://dx.doi.org/10.5772/50464>  
Link for Book Chapter: <http://www.intechopen.com/books/global-warming-impacts-and-future-perspectives/study-of-impacts-of-global-warming-on-climate-change-rise-in-sea-level-and-disaster-frequency>
- Can Glacier and Ice Melt Be Reversed, ISBN 978-0-7377-6826-8 (Hard Cover), ISBN 978-0-7377-6827-5 (Pbk.)  
Full Chapter: The Melting of Glaciers Cannot Be Reversed with Global Warming - by Bharat Raj Singh and Onkar Singh,  
Publisher : GALE Cengage Learning, 2014, pp.56-63.
- Global Warming - Causes, Impacts and Remedies, ISBN 978-953-51-2043-8, 218 pages, Publisher: InTech, Published April 22, 2015 under CC BY 3.0 license DOI: 10.5772/58506  
Full Chapter: Study of Impacts on Continuous Shrinkage of Arctic Sea & Sea Level Rise – Can Glaciers be Growing and Creating New Challenges to UK & USA? by Bharat Raj Singh and Onkar Singh. DOI:Link for Book Chapter: <http://www.intechopen.com/books/global-warming-causes-impacts-and-remedies/study-of-impacts-on-continuous-shrinkage-of-arctic-sea-sea-level-rise-can-glaciers-be-growing-and-cr>
- Global Warming - Causes, Impacts and Remedies, ISBN 978-953-51-2043-8, 218

pages, Publisher: InTech, Published April 22, 2015 under CC BY 3.0 license DOI: 10.5772/58506

Full Chapter: Dire Consequences on Little Shifting of the Earth's Spinning Angle – An Investigation Whether Polar Ice Shrinkage may be the Cause? by Bharat Raj Singh and Onkar Singh.

Link for Book Chapter: <http://www.intechopen.com/books/global-warming-causes-impacts-and-remedies/dire-consequences-on-little-shifting-of-the-earth-s-spinning-angle-an-investigation-whether-polar-ic>

**Publications - Papers :**  
**In International Journal:**

1. Sanjay, Singh Onkar, Prasad B.N., " Energy and exergy analysis of steam cooled reheat gas – steam combined cycle", International Journal of Applied Thermal Engineering, Elsevier / Science , U.K., 27(2007) pp 2779-2790. DOI: [ 10.1016/j.applthermaleng.2007.03.011], an Elsevier Journal. Impact Factor:2.488, h index:84
2. Sanjay, Singh Onkar, Prasad B.N., "Influence of different means of turbine blade cooling on the thermodynamic performance of combined cycle", International Journal of Applied Thermal Engineering, Elsevier / Science , U.K., 28(2008) pp 2315-2326.<http://dx.doi.org/10.1016/j.applthermaleng.2008.01.022> . Impact Factor:2.488, h index:84
3. Sanjay, Singh Onkar, Prasad B.N., "Thermodynamic modeling and simulation of advanced combined cycle for performance enhancement", Journal of Power and Energy, Part A, Proceedings of the Institution of Mechanical Engineers, U.K.,JPE593,2008,Vol.222,pp 541-555. DOI: 10.1243/09576509JPE593 Impact Factor:0.596
4. Singh B.R., Singh Onkar "Development of a vaned type novel air turbine", Journal of Mechanical Engineering Science, Part - C, Proceedings of the Institution of Mechanical Engineers, U.K. ,JMES 993,December 2008, Vol. 222, pp 2419-2426. Impact Factor:0.589.
5. Sanjay, Singh Onkar, Prasad B.N., " Comparative evaluation of gas turbine power plant performance for different blade cooling means", Journal of Power and Energy, Part A, Proceedings of the Institution of Mechanical Engineers, U.K.,JPE671, 2009, Vol. 223, pp 71-82. DOI: 10.1243/09576509JPE671. Impact Factor:0.596
6. Sanjay, Singh Onkar, Prasad B.N., "Parametric analysis of effect of blade cooling means on gas turbine based cogeneration cycle", Journal of the Energy Institute, U.K. 2008, Vol. 81, No.4, pp 197-204, DOI 10.1179/014426008X371040. Impact Factor 0.552.
7. Sanjay, Singh Onkar, Prasad B.N. , " Comparative performance analysis of cogeneration gas turbine cycle for different blade cooling means", International Journal of Thermal Sciences,48 (2008) pp. 1432-1440. doi:10.1016/j.ijthermalsci.2008.11.016 Impact Factor: 2.732
8. Singh B. R. , Singh Onkar, "[Numerical Analysis of Pressure Admission Angle to Vane Angle Ratios on Performance of a Vaned Type Novel Air Turbine](#)", [International Journal of Natural Sciences and Engineering](#), World Academy of Science, Engineering and Technology, Paris, France-IJNSE-ISSN-2073-0578, [Vol.1 Number1\(4\) pp 20-27,2009.](#)
9. Singh Bharat Raj, Singh Onkar, "[Theoretical Investigations on Different Casing and Rotor Diameters Ratio to Optimize Shaft Output of a Vaned Type Air Turbine](#)", [International Journal of Natural Sciences and Engineering](#),World Academy of Science, Engineering and Technology, Paris, France-IJNSE-ISSN-2073-0578, [Vol.1 Number 1\(5\) pp 28-35, 2009.](#)
10. Singh Bharat Raj, Singh Onkar, "[Effect](#) of rotor to casing ratios with different rotor vanes on performance of shaft output of a vane type novel air turbine", [International](#)



[Journal of Natural Sciences and Engineering](#), World Academy of Science, Engineering and Technology, Paris, France-IJNSE-ISSN-2073-0578, [Vol.1 Number 3\(21\) pp 133-138, 2009.](#)

11. Singh Bharat Raj, Singh Onkar, "[Parametric Evaluations of Injection Angles and Vane Angles on Performance of a Vaned Type Novel Air Turbine](#)", [International Journal of Mathematical, Physical and Engineering Sciences](#), World Academy of Science, Engineering and Technology, Paris, France-IJMPES-ISSN: 2070-3880, [Vol.3 Number 4\(38\) pp 226-233, 2009.](#)
12. Sanjay, Singh Onkar, Prasad B.N., "Influence of different means of turbine blade cooling on gas turbine power plant performance", Proc. of the Institution of Mech. Engrs. (IMechE), Part A: Journal of Power and Energy, U.K., Vol. 222, No. 6, DOI 10.1243/009576509JPE671. Impact Factor:0.596.
13. Yadav Ashok , Singh Onkar, " Comparative evaluation of compression ignition engine performance using preheated Jatropa, Karanja and Neem oils", Proc.of the Institution of Mechanical Engineers ,(IMechE) Part A: Journal of Power and Energy, 2009, 224 (1), 47-57. DOI 10.1243/09576509JPE770. Impact Factor:0.596.
14. Singh B. R. , Singh Onkar, "Optimization of Power output of a Vaned Type Novel Air Turbine with respect to different Injection Angles", International Journal of Mechanical Engineering, July-December 2009, Volume 2, Issue 2 , pp. 205-211.
15. Singh B. R. , Singh Onkar, " Analytical Investigations on Different Air Injection Angles to Optimize Power Output of a Vaned Type Air Turbine", Proceedings of the Institution of Mechanical Engineers, Part A, Journal of Power and Energy, U.K., [Vol. 224, Number 3, 2010, pp. 305-312.](#) DOI:10.1243/09576509JPE83. Impact Factor:0.596.
16. Singh Raghuraj, Singh Yogesh, Singh Onkar, " A reliability assessment model for switched chaining type modular design based software systems", International Journal of Conceptual Modelling, USA, Issue 35, May 2005.
17. Singh Raghuraj, Singh Yogesh, Singh Onkar, " A fuzzy logic and expert opinion aggregation based methodology for ranking of software reliability", International Journal of Conceptual Modelling, USA, Issue 36, August 2005.
18. Singh B. R. , Singh Onkar, " Effect of different vane angle on rotor – casing diameter ratios to optimize the shaft output of a vaned type novel air turbine", International Journal of Engineering Science and Technology, , IJSET:ISSN-0975-5462,Vol.2, Number 3(2), 2010, pp 114-121.
19. Singh B. R. , Singh Onkar, "Study of effect of injection angle to rotor-casing diameter ratios on performance of vaned type novel air turbine", International Journal of Engineering Science and Technology, , IJSET:ISSN-0975-5462,Vol.2, Number 4, 2010, pp 409 – 416.
20. Singh B. R., Singh Onkar, "Critical effect of rotor vanes with different injection angles on performance of a vaned type novel air turbine", International Journal of Engineering and Technology, IJET:ISSN-0975-4024, Vol.2(2), 2010, pp 118 – 123.
21. Singh B. R. , Singh Onkar, "Study of influence of vane angle on shaft output of a multi vane air turbine", International Journal of Renewable and sustainable energy , AIP, New York, USA, (Manuscript accepted for publication on October 24, 2009, accepted on April 09,2010) ,Vol 2, Number 3: JRSE-90211, pp 033101-16. Impact Factor:1.51.
22. Singh B. R., Singh Onkar, "Study of effect of rotor vanes to rotor-casing dimensions on performance of a zero pollution vane type novel air turbine", International Journal of the Physical Sciences, 570-00200, Nairobi-73023, Vol. 5(5), pp.547-556, May, 2010, Impact Factor:0.366.
23. Praveen K. S. Yadav, R. P. Singh, Singh Onkar, "Palm Fatty Acid Biodiesel: Process Optimization and Study of Reaction Kinetics", Journal of Oleo Sciences,Vol.59 No.11, pp 575-580 , ISSN 1345-8957 print/ISSN 1347-3352 online, (2010). Impact

**Factor:1.24.**

- 24. Yadav Ashok, Singh Onkar, "Energy estimations for life cycle analysis of Jatropha, Neem and Karanja Bio diesels – A parametric study", Proceedings of the Institution of Mechanical Engineers, Part A, Journal of Power and Energy, U.K., Vol. 224, pp1049-1057, DOI: 10.1243/09576509JPE939. Impact Factor:0.596.**
- 25. Kumar Sanjay, Singh Onkar, "Thermodynamic performance evaluation of gas turbine cycle with transpiration cooling of blades using air vis-à-vis steam", Proceedings of the Institution of Mechanical Engineers, Part A, Journal of Power and Energy, U.K., Vol.224, pp1039-1047,DOI: 10.1243/09576509JPE964. Impact Factor:0.596.**
- 26. Praveen K. S. Yadav, R. P. Singh, Singh Onkar, "Performance Test of Palm Fatty Acid Biodiesel on Compression Ignition Engine", Journal of Petroleum Technology and Alternative Fuels (JPTAF), JPTAF-0-10-003.**
- 27. Singh B. R. , Singh Onkar, "Study of the influence of vane angle on shaft output of a multi vane air turbine II-Different rotor to casing diameter ratios with optimal injection angle", International Journal of Renewable and sustainable energy , AIP, New York, USA, Vol.3(3), 2011, pp 033102(17) DOI:10.1063/1.3583647. Impact Factor:1.51.**
- 28. Singh B. R., Singh Onkar, "Analysis of the Effect of Rotor-to-Casing Diameter Ratio on the Power Output of a Vaned-Type Air Turbine-II",Research Journal of Applied Sciences, Engineering and Technology Vol.3(5), pp 415-425, 2011, ISSN: 2040-7467.**
- 29. Singh B.R., Singh Onkar, "Study of Performance of Shaft output with Rotor-to-Casing Ratios versus Different Vane Angles Adopting Practical Approach on a Novel Multi-Vane Air Turbine", Global Journal of Researches in Engineering, USA,GJRE Volume 11 Issue 5 Version 1.0 August/September 2011.**
- 30. Kumar Sanjay, Singh Onkar, "Performance evaluation of a transpiration-cooled gas turbine for different coolants and permissible blade temperatures considering the effect of radiation", Proceedings of the Institution of Mechanical Engineers, Part A, Journal of Power and Energy, U.K., 0957650911404305, first published on September 29, 2011asDOI: doi:10.1177/0957650911404305, Vol.225, pp.1156-1165. Impact Factor:0.596.**
- 31. Singh B.R., Singh Onkar, "Compressed air energy storage system based engine for running light vehicle", International Journal of Energy and Environment Engineering, ISSN: 2008-9163 e ISSN:2251-6832, Vol.2 / No.4 (pp.33-44) / Fall 2011.**
- 32. Yadav J.P., Singh Onkar, "Thermodynamic analysis of advance technology combined cycle power plant employing water/steam closed loop cooling in gas turbines", International Journal of Energy and Environment Engineering, ISSN: 2008-9163 e ISSN:2251-6832, Vol.2 / No.4 (pp.71-82) / Fall 2011.**
- 33. Singh B.R., Singh Onkar, "Study of compressed air storage system as clean potential energy for 21st century", Global Journal of Researches in Engineering(A),USA,GJRE Volume 12 Issue 1 Version 1.0 January 2012.**
- 34. Singh B.R, Singh Onkar, "Impact of Two Wheeled Vehicle's on Global Warming and its Remedial Design", International Journal of Mechanic System Engineering, IJMSE Volume 2, Issue 2, May 2012, PP. 12-18 ©World Academic Publishing, <http://www.jomse.org/paperInfo.aspx?ID=49>.**
- 35. Yadav Ashok, Singh Onkar, "Investigations on diesel engine performance based on jatropha, karanja and neem biodiesels", Proceedings of the Institution of Mechanical Engineers, Part A, Journal of Power and Energy, U.K., DOI: 10.1177/0957650912445016, Vol.226:pp 674-681 (2012). Impact Factor:0.596**
- 36. Singh B. R., Singh Onkar, "A Study of Performance Output of a Multivane Air Engine Applying Optimal Injection and Vane Angles," International Journal of Rotating Machinery, vol. 2012, Article ID 578745, 10 pages, 2012.**

doi:10.1155/2012/578745, <http://www.hindawi.com/journals/ijrm/2012/578745/>  
. Impact Factor:0.9236

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