LIST OF PUBLICATIONS

Journal Publications

Year 2024

1. Siraj Sayyed, Kishor Kulkarni, Randip Kumar Das, Tabish Alam, Sayed M. Eldin (2023): Direct injection diesel engine characteristics fuelled with diesel, biodiesel and 1-butanol blends, Case Studies in Thermal Engineering, Vol. 53, Jan. 2024, Article no. 103826, DOI: https://doi.org/10.1016/j.csite.2023.103826. **(SCIE Q1)**

2. Uma Shankar Prasad, Radhey Shyam Mishra, and Ranadip Kumar Das (2024): Study of vapor compression refrigeration system with suspended nanoparticles in the low GWP refrigerant, Environmental Science and Pollution Research (2023), Volume 31, Issue 1, Pages 1 – 26, January 2024, DOI: https://doi.org/10.1007/s11356-023-30596-4 **(SCIE Q1)**.

3. Nikunj Upadhyay, Randip Kumar Das, Subrata Kumar Ghosh (2024): Investigating the impact of n-heptane (C7H16) and nanoparticles (TiO2) on diesel–microalgae biodiesel blend in CI diesel engines, Environmental Science and Pollution Research, Published: 5 January, 2024, DOI: https://doi.org/10.1007/s11356-023-31762-4. **(SCIE Q1)**.

4. Nikunj Upadhyay, Randip Kumar Das, Subrata Kumar Ghosh (2024): Size impact of cerium oxide nanoparticles (CeO2) on ternary fuel blend using third-generation biodiesel in VCR diesel engine, Journal of Thermal Analysis and Calorimetry, Published online on 7 March, 2024. https://doi.org/10.1007/s10973-024-12958-3. **(SCIE Q1)**.

5. Sachin Sharma, Maithani Rajesh, and Randip K Das (2024): CFD Based Performance Evaluation of Solar Air Heater by using Centerline Perforated Sine Wave Baffles, Evergreen, Volume 11, Issue 2, Pages 862 – 871, June 2024. https://doi.org/10.5109/7183368. **(SCOPUS).**

6. Nikunj Upadhyay, Kundan Kumar, Randip Kumar Das, Subrata Kumar Ghosh (2024): A thermodynamic approach to energy, exergy, exergoeconomic, enviroeconomic, and sustainability assessments involving an VCR diesel engine employing third-generation biodiesel with TiO2 NPs and n-heptane, Energy Conversion and Management 321 (1 December 2024) 119064, https://doi.org/10.1016/j.enconman.2024.119064. **(SCIE Q1)**.

Year 2023

1. Sharma, R.K., Das, R.K. and Kumar, S.R. (2023): Microstructure, mechanical and tribological properties of high velocity oxy-fuel thermal spray coating: A review, **Material wissenschaft und Werkstoff Technik (Materials science and engineering technology),** Volume 54, Issue 1, Pages 90 – 97, January 2023, DOI:10.1002/mawe.202200101. **(SCIE Q4)**

2. Siraj Sayyed, Randip Kumar Das, Kishor Kulkarni (2023): Energy and Exergy Analysis of Multiple Biodiesel Blended Diesel Engine, **Journal of Energy Resources Technology, Transactions of the ASME**, Apr 2023, 145(4): 042301 (14 pages), https://doi.org/10.1115/1.4054850. **(SCIE Q3)**

3. Sharma, R.K., Das, R.K. and Kumar, S.R. (2023): Investigation of solid particle erosion behaviour of Fe-Cr alloy coating, Int. J. of Surface Science and Engineering, Vol. 17, No. 1, Pages 44 – 57, DOI: 10.1504/IJSURFSE.2023.10052346, Online publication date: 08 Feb, 2023, **(SCIE Q4).**

4. Uma Shankar Prasad, Radhey Shyam Mishra, Ranadip Kumar Das and Hargovind Soni (2023): Experimental and Simulation Study of the Latest HFC/HFO and Blend of Refrigerants in Vapour Compression Refrigeration System as an Alternative of R134a, Processes 2023, 11, 814. https://doi.org/10.3390/pr11030814, Published: 9 March 2023 **(SCIE Q2).**

5. Sanjeev Kumar, Randip Kumar Das, Kishor Kulkarni, Tabish Alam, Sayed M. Eldin, (2023): Designing of low cost solar air heater equipped with roughness of streamlined cross-section, **Case Studies in Thermal Engineering**, 102915, ISSN 2214-157X, https://doi.org/10.1016/j.csite.2023.102915. **(SCIE Q1).**

6. Siraj Sayyed, Randip Kumar Das, Kishor Kulkarni, Tabish Alam, Sayed M. Eldin (2023): Influence of additive mixed ethanol-biodiesel blends on diesel engine characteristics, **Alexandria Engineering Journal**, Volume 71, Page 619-629. DOI:10.1016/j.aej.2023.03.091. **(SCIE Q1).**

7. Sharma, R.K., Das, R.K. and Kumar, S.R. (2023): HVOF deposition, comparative investigation and optimum selection of molybdenum, boron, chromium and titanium in Iron amorphous composite coatings, Surface Engineering, Published online: 13 Jul 2023, DOI: 10.1080/02670844.2023.2233263. **(SCIE Q3).**

8. Siraj Sayyed, Randip Kumar Das, Samer F. Ahmed, Kishor Kulkarni, Tabish Alam, Sayed M. Eldin (2023): Modelling of multiple biodiesel-emitted nitrogen oxides using ANN approach, **Alexandria Engineering Journal**, Volume 79, Page 116 – 125. DOI: 10.1016/j.aej.2023.08.005. **(SCIE Q1).**

9. Siraj Sayyed, Kishor Kulkarni, Randip Kumar Das, Tabish Alam, Sayed M. Eldin (2023): Influence of additive mixed ethanol-biodiesel blends on diesel engine characteristics, **Alexandria Engineering Journal**, Volume 71, Page 619-629. DOI: 10.1016/j.aej.2023.03.091. **(SCIE Q1).**

10. Ranjan Pratap Singh, Randip K. Das, Nikunj Upadhyay (2023): Effectiveness approach for predicting desiccant wheel performance: correlation utilizing experimental results, International Journal of Refrigeration, Volume 156, December 2023, Pages 84-91, https://doi.org/ 10.1016/j.ijrefrig.2022.11.016, **(SCIE Q1)**

11. Sharma, R. K.; Das, R. K.: Kumar, S. R. (2023): Comparative investigation on mechanical properties of iron alloy based coating material: A comprehensive review, **Material wissenschaft und Werkstoff Technik (Materials Science and Engineering Technology),** Volume 54, Issue 12, Pages 1728 – 1735, December 2023, https://doi.org/10.1002/mawe.202300035. **(SCIE Q4)**

Year 2022

1. Siraj Sayyed, Randip Kumar Das, Kishor Kulkarni (2022): Experimental investigation for evaluating the performance and emission characteristics of DICI engine fuelled with dual biodiesel-diesel blends of Jatropha, Karanja, Mahua, and Neem" **Energy,** 238 (2022), 121787 **(SCIE Q1).** https://doi.org/10.1016/j.energy.2021.121787.

2. Sachin Sharma, Randip K Das and Kishor Kulkarni (2022): Experimental analysis and thermal management of solar air heater roughened with sine wave baffles, **Proc IMechE Part A: J Power and Energy** 2022, Vol. 0(0) 1–15, https://doi.org/10.1177/09576509221092906, **(SCIE Q3)**

3. Sharma, R.K., Das, R.K. and Kumar, S.R. (2022): Effect of chromium–titanium on corrosion and erosion of HVOF coating, **Surface Engineering**, 2022, 1-9, https://doi.org/10.1080/02670844.2022.2076015, **(SCIE Q2)**

4. Sanjeev Kumar, Randip Kumar Das, Kishor Kulkarni (2022): Comparative study of solar air heater (SAH) roughened with transverse ribs of NACA 0020 in forward and reverse direction, **Case Studies in Thermal Engineering**, 34, June 2022, 102015, https://doi.org/10.1016/j.csite.2022.102015, **(SCIE Q1).**

5. Sharma, R.K., Das, R.K. and Kumar, S.R. (2022): Effect of varying chromium and titanium content on corrosion, mechanical and solid particle erosion properties of Iron alloy based coating, **Materialwissenschaft und Werkstofftechnik (Materials science and engineering technology)** Volume 53, Issue 6, June 2022, Pages 675-685, https://doi.org/10.1002/mawe.202100409, **(SCIE Q4)**.

6. Sachin Sharma, Randip K Das and Kishor Kulkarni (2022): Parametric optimization of solar air heater having sine wave baffles as turbulators, Experimental Heat Transfer, Vol. 37, No. 2, 182–207, 2024. http://doi.org/10.1080/08916152.2022.2108525, (**SCIE, Q2, If-3.272**).

7. Sachin Sharma, R. K. Das, and K. Kulkarni, "Sustainability analysis of solar air heater roughened with baffles based on exergy efficiency, Published online in Materials Today: Proceedings, Volume 69, Part 2, 2022, Pages 75-81. https://doi.org/10.1016/j.matpr.2022.08.080. **(SCOPUS)**

Year 2021

1. Ratnesh Kumar Sharma, Randip Kumar Das, Shiv Ranjan Kumar (2021): Effect of chromium content on microstructure, mechanical and wear resistance properties of Fe-Cr-Ti-Mo-C-Si coating, **Surfaces and Interfaces,** 22 (2021) 100820. https://doi.org/10.1016/j.surfin. 2020.100820 **(SCIE Q1)**

2. Ratnesh Kumar Sharma, Randip Kumar Das, Shiv Ranjan Kumar (2021): Microstructure, adhesion and wear properties of Fe-Cr-Ti-Mo-C-Si coating with varying Titanium, **Materials Today Communications**, 26 (2021) 101826 https://doi.org/10.1016/j.mtcomm.2020.101826 **(SCIE Q2)**

3. Ratnesh Kumar Sharma, Randip Kumar Das, Shiv Ranjan Kumar (2021): Effect of HVOF spraying parameters on Fracture, Erosion and Thermal properties of Fe alloy based coating materials, **Proc IMechE Part L: J Materials: Design and Applications** 2021, Vol. 235(7) 1703–1711. DOI: 10.1177/1464420721999682 **(SCIE Q3)**

4. Sachin Sharma, Randip Kumar Das, Kishor Kulkarni (2021): Computational and experimental assessment of solar air heater roughened with six different baffles, **Case Studies in Thermal Engineering,** 27 (2021) 101350, https://doi.org/10.1016/j.csite.2021.101350. **(SCIE Q1)**

5. Singh, R.P., Das, R.K. (2021): Progressive Development and Challenges Faced by Solar Rotary Desiccant-Based Air-Conditioning Systems: A Review. **Processes** 2021, 9(10), 1785. https://doi.org/10.3390/pr9101785 **(SCIE Q2)**

6. Sharma, R.K., Das, R.K. and Kumar, S.R. (2021): Microstructure, mechanical and erosion wear analysis of Post Heat treated Fe alloy based coating with varying chromium. Material Science and Engineering Technology, **Materialwissenschaft und Werkstofftechnik (Materials science and engineering technology)** Volume 52, Issue11, November 2021, Pages 1173-1184, https://doi.org/10.1002/mawe.202100080, **(SCIE Q4)**,

7. Siraj Sayyed, Randip Kumar Das, Kishor Kulkarni (2021): Performance assessment of multiple biodiesel blended diesel engine and NOx modeling using ANN, **Case Studies in Thermal Engineering**, 28 (2021) 101509, https://doi.org/10.1016/j.csite.2021.101509 **(SCIE Q1)**

8. Siraj Sayyed, Randip Kumar Das, Kishor Kulkarni (2021): Experimental Evaluation of Physico-chemical and Thermal Properties of Tetra Biodiesel-diesel blends of Jatropha, Karanja, Mahua, and Neem, **Springer Lecture Notes in Mechanical Engineering**, 52, Pages 525-539, https://www.springer.com/gp/book/9789813347946. DOI: 10.1007/978-981-33-4795-3_48. **(SCOPUS)**

9. Sachin Sharma, Randip Kumar Das and Kishor Kulkarni (2021): Performance evaluation of solar air heater using sine wave shape obstacle, **Springer Lecture Notes in Mechanical Engineering**, 52, Pages 541-553, https://www.springer.com/gp/book/9789813347946 DOI: 10.1007/978-981-33-4795-3_49. **(SCOPUS)**

10. Uma Shankar Prasad, Radhey Shyam Mishra and Ranadip Kumar Das (2021): Evaluation & comparison of C.O.P of Simple vapour compression refrigeration system using different refrigerants (R-134a, R-1234yf & R-1234ze) in the circuit, **International Journal of Agricultural Science and Research (IJASR)** ISSN (P): 2250-0057; ISSN (E): 2321-0087 Vol. 11, Issue 2, Dec 2021, 97-104, DOI : 10.24247/ijasrdec202111 **(Index Copernicus)**

Year 2020

1. Uma Shankar Prasad, R.S. Mishra, R. K. Das (2020): Experimental studies of vapour compression refrigeration system with eco-Friendly primary refrigerant and brine mixed with nano particles as secondary refrigerant, **Materials Today: Proceedings**, Volume 45, Part 4, 2021, Pages 3857-3859, https://doi.org/10.1016/j.matpr.2020.06.083. **(SCOPUS)**

2. Uma Shankar Prasad, Randip Kumar Das, R. S. Mishra (2020): Thermodynamic Performance Improvement in Vapour Compression Refrigeration System with Use of Eco-Friendly Primary Refrigerants and Brine Mixed with Nano Particles As Secondary Refrigerant, **International Journal of Mechanical and Production Engineering Research and Development (IJMPERD**), Vol. 10, Issue 3, Jun 2020, 1075-1090. DOI: 10.24247/ijmperdjun202093. **(SCOPUS)**

Year 2019

1. Kumar, M., & Das, R. K. (2019): Experimental analysis of absorption refrigeration system driven by waste heat of diesel engine exhaust, **Thermal Science**, Year 2019, Vol. 23, No. 1, pp. 149-157. DOI: 10.2298/TSCI160311003K. **(SCIE Q3)**

Year 2018

1. Das, R.K. & Sharma, S.K. (2018): Blend of jatropha biodiesel and tyre pyrolysis oil mixed with cerium oxide – an alternative to diesel fuel, **Biofuels**, pp 739 - 744, http://dx.doi.org/ 10.1080/17597269.2017.1316139. **(SCIE Q3)**

2. Sur, Anirban, Das Randip K. & Sah, Ramesh P. (2018): Influence of initial bed temperature on bed performance of an adsorption refrigeration system, **Thermal Science**, 2018, Vol. 22, Issue 6 Part A, pp. 2583-2595, DOI: 10.2298/TSCI160108254S. **(SCIE Q3)**

3. Sah, R. P., Choudhury, B., & Das, R. K. (2018): Study of a two-bed silica gel–water adsorption chiller: Performance analysis. **International Journal of Sustainable Energy**, Volume 37, Issue 1, Pages 30-46 doi:10.1080/14786451.2016.1173696. **(ESCI Q4)**

Year 2017

1. Das, R.K. & Sharma, S.K. (2017): Fuel characterization and performance parameters analysis of diesel engine using blends of palm biodiesel and tyre pyrolysis oil, **Journal of the Brazilian Society of Mechanical Sciences and Engineering,** Vol. 39 (5), pp. 1491-1497, DOI: 10.1007/s40430-016-0696-2**. (SCIE Q3)**

2. Sah, R. P., Choudhury, B., Das, R. K. & Sur, A. (2017): An overview of modelling techniques employed for performance simulation of low-grade heat operated adsorption cooling systems. Renewable and Sustainable Energy Reviews, 74, 364 – 376. doi: 10.1016/j.rser.2017.02.062. **(SCIE Q1)**

3. Sur, Anirban & Das Randip K. (2017): Experimental investigation on waste heat driven activated carbon-methanol adsorption cooling system, **Journal of the Brazilian Society of Mechanical Sciences and Engineering,** Vol. 39(7), pp. 2735-2746, DOI: 10.1007/s40430-017-0792-y**. (SCIE Q3)**

4. Sur, A., & Das, R. K. (2017): Development of equilibrium and dynamic models for an adsorption refrigeration system, **Journal of Environment and Biotechnology Research**, Vol. 6, No. 1, Pages 64-81.

Year 2016

1. Sharma, S.K., Das, R.K. & Sharma, A (2016): Improvement in the performance and emission characteristics of diesel engine fueled with jatropha methyl ester and tyre pyrolysis oil by addition of nano additive, **Journal of Brazilian Society of Mechanical Sciences and Engineering**, Vol. 38(7), PP 1907–1920, DOI 10.1007/s40430-015-0454-x. **(SCIE Q3)**

2. Sah, R. P., Choudhury, B., & Das, R. K. (2016): A review on low grade heat powered adsorption cooling systems for ice production. **Renewable and Sustainable Energy Reviews**, *62*, 109-120. doi:10.1016/j.rser.2016.04.036. **(SCIE Q1)**

3. Sur, A., & Das, R. K. (2016)*:* Review of Technology Used to Improve Heat and Mass Transfer Characteristics of Adsorption Refrigeration System, **International Journal of Air-Conditioning and Refrigeration**, 24 (2), 1630003. DOI: 10.1142/S2010132516300032. **(ESCI Q3)**

Year 2015

1. Sah, R. P., Choudhury, B., & Das, R. K. (2015): A review on adsorption cooling systems with silica gel and carbon as adsorbents. **Renewable and Sustainable Energy Reviews**, *45*, 123-134. doi:10.1016/j.rser.2015.01.039. **(SCIE Q1)**

2. Kumar, M., & Das, R. K. (2015): Thermodynamic investigation of diffusion absorption refrigeration technology with triple fluid. **International Journal of Applied Engineering Research**, *10*(1), 451-468. **(SCOPUS)**

3. Sur, A., & Das, R. K. (2015)*:* Numerical Modeling and Thermal Analysis of an Adsorption Refrigeration System, **International Journal of Air-Conditioning and Refrigeration**, 23 (4), 1550033 (11 pages). DOI: 10.1142/S2010132515500339. **(ESCI Q3)**

Before 2015

1. Bhattacharyya, S., & Das, R. K. (2001): Catalytic reduction of NOx in gasoline engine exhaust over copper- and nickel-exchanged X-zeolite catalysts. **Energy Conversion and Management**, *42*(15-17), 2019-2027. doi:10.1016/S0196-8904(01)00059-0. **(SCIE Q2)**

2. Bhattacharyya, S., & Das, R. K. (2000): Emission Control Through Cu-Exchanged X-Zeolite Catalysts: Experimental Studies and Theoretical Modeling, **Journal of Engg. For Gas Turbines and Power, Transactions of the ASME**, 122 (1), 2000, 106-111. doi:10.1115/1.483190 **(SCIE Q3)**

3. Bhattacharyya, S., & Das, R. K. (1999): Catalytic control of automotive NOx: A review. International Journal of Energy Research, *23*(4), 351-369. https://doi.org/10.1002/(SICI)1099-114X(19990325)23:4<351::AID-ER497>3.0.CO;2-T **(SCIE Q2)**

4. R. K. Das and B. B. Ghosh (1999): Catalytic Reduction of S. I. Engine Emissions Using Ion-Exchanged X-Zeolites, **SAE Technical Papers**, 990015, pp. 201-206, DOI: https://doi.org/10.4271/990015 **(SCOPUS)**

5. Prakash Rao, M., Das, R., and Dhoble, A. (1999): ECE R83 Chassis Dynamometer Transient Test Emission Predictions from ECE R49 Steady State Emission Test Results, **SAE Technical papers**, 990032, pp. 339-350, DOI: https://doi.org/10.4271/990032 **(SCOPUS)**

6. Das, R. K., Bhattacharyya, S., DuttaGupta, M., & Ghosh, B. B. (1999): Theoretical and experimental analysis of iron-exchanged X-zeolite catalyst for SI engine emission control. **Experimental Thermal and Fluid Science**, *19*(4), 214-222. doi:10.1016/S0894-1777(99)00029-1. **(SCIE Q2)**
7. Nag, P., Ghosh, B. B., Das, R. K., & Duttagupta, M. (1998): NOx reduction in SI engine exhaust using selective catalytic reduction technique. **SAE Technical Papers** (SP-1353), Paper No. 980935, doi:10.4271/980935. **(SCOPUS)**

8. Das, R. K., Bhattacharyya, S., Ghosh, B. B., & Duttagupta, M. (1997): Development and performance studies on ion-exchanged X-zeolites as catalysts for SI engine emission control. **SAE Technical Papers**, Paper No. 971652, doi:10.4271/971652. **(SCOPUS)**

9. Das, R. K., & Ghosh, B. B. (1995): Some studies on the use of CNG in research and commercial diesel engines. **Journal of the Institution of Engineers (India): Mechanical Engineering Division**, *76*, 16-23. (SCOPUS)

10. R. K. Das and B. B. Ghosh (1994): Comparative Studies of Gasoline and Compressed Natural Gas as Fuel for Spark Ignition Engines, **Journal of the Institution of Engineers (India): Mechanical Engineering Division**, Vol.75, 93-98.

International Conferences (Web of Science core collection):

1. Sayyed, S., Das, R. K., & Kulkarni, K. (2019). Experimental investigation and development of correlations for pongamia pinnata biodiesel. In *MATEC Web of Conferences* (Vol. 272, 01009). EDP Sciences. https://doi.org/10.1051/matecconf /20192720 1009.

2. Mishra, V. K., Singh, R. P., Das, R. K. (2018): Performance prediction of solid desiccant rotary system using artificial neural network, IOP Conf. Series: Materials Science and Engineering 404 (2018) 012006, doi:10.1088/1757-899X/404/1/012006

3. Singh, R. P., Mishra, V. K., Das, R. K. (2018): Desiccant materials for air conditioning applications - A review, IOP Conf. Series: Materials Science and Engineering 404 (2018) 012005, doi:10.1088/1757-899X/404/1/012005.

4. Ghosh, A., Chattopadhyaya, S., Das, R. K., & Sarkar, P. K. (2011): Assessment of heat affected zone of submerged arc welding process through digital image processing. Paper presented at the *Procedia Engineering, Volume 10, 2011,* 2782-2785. doi:10.1016/j.proeng.2011.04.462

5. Ghosh, A., Chattopadhyaya, S., & Das, R. K. (2011): Effect of heat input on submerged arc welded plates. Paper presented at the *Procedia Engineering, Volume 10,* 2791-2796. doi:10.1016/j.proeng.2011.04.464.

6. Ghosh, A., Chattopadhyaya, S., Das, R. K., & Sarkar, P. K. (2011): Prediction of submerged arc welding yield parameters through graphical technique. Paper presented at the *Procedia Engineering, Volume 10,* 2797-2802. doi:10.1016/j.proeng.2011.04.465

Conference Publications

1. R. K. Das, *et al.*, Present Status of Three-Way Catalytic Reduction of Automotive Pollutants, Proc. of Ninth Indian Engineering Congress, Calcutta, December 14-20, 1994, paper no. 36/2.3.2 pp. 367-381.

2. R. K. Das and S. Bhattacharyya, 'Catalytic reduction of NOx in gasoline engine exhaust over copper- and nickel-exchanged X-zeolite catalysts', 2nd Int. Symposium on Advanced Energy Conversion Systems and Related Technologies (RAN98), Japan, December, 1998, pp. 104-105.

3. R. K. Das, *et al.*, 'Mathematical Modelling of a Packed-Bed Catalytic Converter Used for SI Engine Emission Control', Proc. of XVI National Conf. on I. C. Engines & Comb., Jan. 20-22, 2000, Calcutta, pp. 363-370.

4. R. K. Das, "Some Experiences on Non-Noble Transition Metal Exchanged X-Zeolite Catalysts for SI Engine Emission Control", Proc. of XVI National Convention of Mechanical Engineers, Sept. 29-30, 2000, at Univ. of Roorkee, Roorkee.

5. R. K. Das, Improvement of Gasoline Engine Performance and Exhaust Characteristics by Fuel Injection Systems, Proc. of National Seminar on Maintenance Engineering – The Recent Trends, 31 Jan. – 1 Feb., 2001, held at Indian School of Mines, Dhanbad.

6. R. K. Das, *et al.*, 'Mathematical Modelling of a Packed-Bed Catalytic Converter', ISME-2003, XIII National Conf. of Indian Society of Mech. Engrs., Paper No.: TH-034, Dec. 30-31, 2003, IIT, Roorkee.

7. R. K. Das, The On-Board Diagnostic (OBD-II) System for Inspection and Maintenance of Automotive Catalytic Converters; National Seminar on Condition Monitoring – Overview and Advanced Technique (COMOAT – 06); 15-16 Sept., 2006, ISM, Dhanbad.

8. R. K. Das: Mathematical Modeling to Optimize Crude Oil Distillation Units for Energy Recovery and Reduction in CO_2 Emissions, International Conf. on "Present Status and Future Trends in petroleum Industry" Dec. 6 – 8, 2007, held at ISMU, Dhanbad.

9. R. K. Das & Nitesh Goyal*:* Numerical Study of Effect of Turbulence on Heat Transfer Through Closed Cavities, 34th National conference on "Fluid Mechanics and Fluid Power" Dec. 10 – 12, 2007, held at BIT, Mesra, Ranchi.

10. R. K. Das & Satish Reddy: Development of A Continuous Solid Adsorption Refrigeration and Heating Hybrid System Driven by Solar Energy, National Conf. "New and Renewable Energy – Prospects and Challenges" Dec. 17 – 18, 2007, held at BIT, Mesra, Ranchi.

11. R. K. Das: Solar Adsorption Refrigeration Systems for Rural Application: A Review, All India Seminar on Energy Management in Indian Perspective, Inst. of Engineers, Lucknow, March 01 – 02, 2008.

12. R. K. Das &Anirban Sur: Thermodynamic analysis of Cascading Adsorption Refrigeration System, Int. Conf. on Advances on renewable Energy (ICARE – 2010), paper No. 149, June 24 – 26, 2010, MANIT, Bhopal.

13. R. K. Das &Anirban Sur: Heat and Mass Transfer Analysis of A Silica Gel – Water Adsorption Refrigeration System, paper No. 398, 13th Asian Congress of Fluid Mechanics (ACFM), 17 - 21 Dec., 2010, Dhaka, Bangladesh.

14. R. K. Das &Anirban Sur: Thermal analysis of an Activated Carbon – Ammonia Adsorption Refrigeration System, paper No. TH-141, Int. Conf. on Emerging Trends in Mech. Engg. (ICETME-2011), 24 – 26 Feb., 2011, Thapar Univ., Patiala.

15. R. K. Das & Mukul Kumar: Thermodynamic Study of Solar Powered Absorption Refrigeration Unit, Proceedings of 5th International Conference on advances in Mechanical Engineering (ICAME-2011) SVNIT, Surat June 06-08, 2011, Page no-408-413.

16. Mukul Kumar & R. K. Das: Recovery of waste heat from HEMM for cooling application in mines, Proc. Of National Seminar on Mining Equipment New technologies, challenges & applications (MENTCA 2012), ISM, Dhanbad, 19th -21st January 2012, pp. 189-195.

17. Anirban Sur & R. K. Das: Mathematical Approach of Heat and Mass Transfer of Silica Gel Water at Adsorption Phase, International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (October 5-7, 2012) Punjab Technical University, Jalandhar, pp 154 – 159.

18. Mukul Kumar & R. K. Das: Thermodynamic Investigation of Diffusion Absorption Refrigeration Cycle, International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (October 5-7, 2012) Punjab Technical University, Jalandhar, pp 324 – 330.

19. Sur Anirban, Das R. K., 'Thermal analysis of Silica Gel-Methanol adsorption refrigeration system', World Congress on frontiers of mechanical aeronautical and automobile engineering 2 – 3 February 2013, IIT Delhi.

20. Sur Anirban, Das R. K., 'Analysis of a continuous activated carbon methanol adsorption refrigeration system' International Conference on Advances in Mechanical Engineering May 29-31, 2013, College of Engineering Pune, Maharashtra, India.

21. Sur Anirban, Das R. K., 'Thermodynamic analysis of adsorption refrigeration system' International Conference on Smart Technologies for Mechanical Engineering (STME) Oct 25 – 26, 2013, Delhi Technological University (formerly Delhi College of Engineering).

22. Sah, Ramesh P., Choudhury B., Das, R. K., Activated carbon-based adsorption cooling systems. In: International Conference on Advanced Materials and Energy Technology (ICAMET–2014), IIEST Shibpur, Kolkata, India, 17–19 December 2014.

23. Singh R. P., Das R. K., Mishra, V. K. (2018): Exergy Analysis of Desiccant Assisted Evaporative Cooling System, International Conference on Innovative Trends in Engineering, Applied Science and Management (ICITEASM), held at Osmania University Centre for International Programmes, Osmania University Campus, Hyderabad on 25th March 2018, ISBN: 978-93-87433-18-2.

24. Uma Shankar Prasad, Radhey Shyam Mishra and Ranadip Kumar Das: Evaluation & comparison of C.O.P of Simple vapour compression refrigeration system using different refrigerants (R-134a, R-1234yf & R-1234ze) in the circuit, International Conference on Innovative Applications of Emerging Technologies And Management, (ICIAETM)-2021 held at Prestige Institute of Engineering Management & Research (PIEMR), Indore (MP) India, 09-10 April, 2021