

## King Khalid University

### College of Engineering// Mechanical Engineering Department

#### Publication Details

**2018**

1. Sofiene Mellouli, Faouzi Askri, Abhilash Edacherian, Talal Alqahtani, Salem Algarni, Jemni Abdelmaji, Patrick Phelan, Performance analysis of a thermal energy storage system based on paired metal hydrides for concentrating solar power plants, *Applied Thermal Engineering*, Volume 144, 5 November 2018, Pages 1017-1029
2. Mustafa Usta, Michael Morabito, Ali Anqi, Mohammed Alrehili, Alaa Hakim, AlparslanOztekin, Twisted hollow fiber membrane modules for reverse osmosis-driven desalination, *Desalination*, Volume 441, 1 September 2018, Pages 21-34
3. Kashif Irshad, Asif IrshadKhan, SalemAlgarni ,KhairulHabib, Bidyut BaranSahad, Objective and subjective evaluation of a sleeping environment test chamber with a thermoelectric air cooling system, *Building and Environment*, Volume 141, 15 August 2018, Pages 155-165.
4. Mohamed Hamdy Gheith, Mohamed AbdelAziz, Waheedullah Ghori, Naheed Sabab Mohammad Asim, Mohammad Jawaid Othman Y.Alothman, Flexural, thermal and dynamic mechanical properties of date palm fibres reinforced epoxy composites, *Journal of Materials Research and Technology*, August 2018
5. C. Ahamed Saleel, M. Abdul Mujeebu, Salem Algarni, Coconut oil as phase change material to maintain thermal comfort in passenger vehicles-An experimental analysis, *Journal of Thermal Analysis and Calorimetry*, August 2018, Pages 1–8
6. Gulam Mohammed Sayeed Ahmed, and Salem Algarni; Design, Development and FE Thermal Analysis of a Radially Grooved Brake Disc Developed through Direct Metal Laser Sintering, *Materials*, Volume 11, Issue 7, Article 1211. July 2018.
7. Hatem Ben Mâad, Faouzi Askri, Joseph Virgone, Sassi Ben Nasrallah, Numerical study of high temperature metal-hydrogen reactor (Mg<sub>2</sub>Ni-H<sub>2</sub>) with heat reaction recovery using phase-change material during desorption, *Applied Thermal Engineering*, Volume 140, 25 July 2018, Pages 225-234

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  9. Mostafa A. H. Abdelmohimen, Salem A. Algarni, Numerical investigation of solar chimney power plants performance for Saudi Arabia weather conditions, *Sustainable Cities and Society* , Volume 38, April 2018, Pages 1-8
  10. Shahab Bazri, Irfan Anjum Badruddin, Mohammad Sajad Naghavi, Mehdi Bahiraei, A review of numerical studies on solar collectors integrated with latent heat storage systems employing fins or nanoparticles, *Renewable Energy*, Volume 118, April 2018, Pages 761-778
  11. Salem Algarni, C. A. Saleel, M. Abdul Mujeeb, Air-conditioning condensate recovery and applications—Current developments and challenges ahead, *Sustainable Cities and Society*, Volume 37, February 2018, Pages 263-274
  12. T. M. Yunus Khan, Irfan Anjum Badruddin, R. F. Ankalgi, Ahmad Badarudin, B. S. Hungund, Fazal R. Ankalgi, Biodiesel Production by Direct Transesterification Process via Sequential Use of Acid–Base Catalysis, *Arabian Journal for Science and Engineering*, 23 January 2018, Pages 1–8
  13. Ahamad NA, Kamangar S, Badruddin IA, The influence of curvature wall on the blood flow in stenosed artery: A computational study, *Bio-Medical Materials and Engineering*, Volume: 29 Issue: 3, 2018, Pages: 319-332
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## 2017

1. M. W. Kareem, S. I. Gilani, Khairul Habib, Kashif Irshad, Bidyut Baran Saha, Performance analysis of a multi-pass solar thermal collector system under transient state assisted by porous media, *Solar Energy*, Volume 158, December 2017, Pages 782-791
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  6. Souhir Mankai, Jamel Madiouli, Jalila Sghaier & Didier Lecomte, Determination of porosity from shrinkage curves during sintering of granular materials, *Drying Technology*, Volume 36, Issue 5, 22 Aug 2017
  7. Mustafa Usta, Ali E. Anqi, Alparslan Oztekin, Reverse osmosis desalination modules containing corrugated membranes – Computational study, *Desalination*, Volume 416, 15 August 2017, Pages 129-139
  8. F. Bouzgarrou, F. Askri, H. Belhaj Ali, S. Ben Nasrallah, Analyses of unsteady conduction-radiation heat transfer using unstructured Lattice Boltzmann method, *International Journal of Thermal Sciences*, Volume 116, June 2017, Pages 287-309
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  12. H. Belhaj Ali, F. Askri, S. Ben Nasrallah, Comparative study of WSGG and SLW models coupled with control volume finite element method for non gray radiation prediction, *International Journal of Thermal Sciences*, Volume 113, March 2017, Pages 73-82
  13. S. Mellouli, F. Askri, E. Abhilash, S. Ben Nasrallah, Impact of using a heat transfer fluid pipe in a metal hydride-phase change material tank, *Applied Thermal Engineering*, Volume 113, 25 February 2017, Pages 554-565
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2. A.E. Anqi, M. Alrehili, M. Usta, A. Oztekin, Numerical analysis of hollow fiber membranes for desalination, *Desalination*, Volume 398, November 2016, Pages 39–51. doi:10.1016/j.desal.2016.07.019.
3. A.E. Anqi, N. Alkhamis, A. Oztekin, Steady three dimensional flow and mass transfer analyses for brackish water desalination by reverse osmosis membranes, *International Journal of Heat and Mass Transfer*, Volume 101, October 2016, Pages 399–411. doi:10.1016/j.ijheatmasstransfer.2016.05.102.
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9. S. Mellouli, E. Abhilash, F. Askri, S. Ben Nasrallah, Integration of thermal energy storage unit in a metal hydride hydrogen storage tank. *Applied Thermal Engineering* Volume 102, June 2016, Pages 1185–1196

10. S. Mellouli, Askri F, Dhaou H, Jemni A, Nasrallah SB, A study of the thermal behavior of a deformable metal-hydride bed, *International journal of hydrogen energy*, Volume 41, Issue 3, January 2016, Pages 1711-1724
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