# RESUME (Curriculum Vitae)

**PERSONAL**


| | First | Middle | Family |
|---|---|---|---|
| Name: | Mohamed | Elsayed | Ali |

Nationality: Egyptian Date of birth: 16-2-1955

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Rank: Professor, Marital status: Married, four children.

## EDUCATIONAL

September 1984-December 1988 Ph.D. Mech. Eng., Department of Mechanical Engineering (Thermal Sciences), University of Colorado, Boulder, CO. USA; GPA: 3.74/4.0

December 1982- May 1984 MS Mech. Eng. (Thermal Sciences), University of Colorado, Boulder.

September 1973-May 1978 BS Mechanical Power Engineering, Helwan University, Cairo, Egypt.

## RESEARCH INTERESTS:

Teaching and Research in Thermal Fluid Sciences, area of Heat Transfer, Fluid Mechanics, Stability of Fluids, and Thermodynamics. The research field of interest includes: experimental, numerical and semi-analytical in the area of natural and forced convection heat transfer and nanofluids heat transfer. Thermal insulation and natural fibers. Recycling agro wasted materials into thermal insulation materials.

## COURSES TAUGHT:

Thirty years of teaching experiences where the following courses were taught: Heat Transfer, Thermodynamics I and II, Fluid Mechanics II, Internal Combustion Engines, Engineering Mechanics (Statics), Dynamics and Design of Thermal-Fluid Systems, Advanced Heat Transfer, Advanced Thermodynamics, Advanced Fluid Mechanics.

## SUPERVISED MS/Ph.D THESES

1- Experimental Study on Natural Convection Heat Transfer in Inclined Square Enclosures Filled with Nanofluid (Ph.D 2022)
2- The effect of using internal cooling coil on the performance of a basin solar still (MS 2018).
3- Experimental Study of Natural Convection Heat Transfer from an Array of Vertically Separated Horizontal Square Cylinders, (MS 2016).
4- The effect of using $Al_2O_3$-water based nanofluid as a coolant in vehicles radiator, (MS 2012).
5- Experimental investigation of natural convection heat transfer in cylindrical cavity using nanofluids. (MS 2011)
6- The effect of variable viscosity on laminar mixed convection heat transfer along a power law moving vertical plate. (MS 2010)

7- Laminar mixed convection over continuously moving surface with suction or injection. (MS 1998)

**EMPLOYMENT AND TEACHING EXPERIENCE HISTORY:**

| | |
|---|---|
| 23- 07- 2009: 19-08- 2009 | Visiting Prof., U. of Colorado, Boulder, Co, USA. |
| 19- 08- 2009: 19- 09- 2009 | Visiting Prof., Ohio State U., Columbus, OH., USA |
| 22-10-2005: Now | Professor, King Saud University (Saudi Arabia). |
| 5-11-1995: 21-10-2005 | Associate Prof., King Saud Un., Saudi Arabia. |
| 28-6-2000: 8-8-2000 | Visiting Prof., Northwestern University, IL, USA |
| 1-7-1999: 22-8-1999 | Visiting Prof., University of Colorado, CO., USA |
| 29.09.1992 - 04.11.1995 | Assistant Prof., King Saud Un., Saudi Arabia. |
| 13.08.1991 - 28.09.1992 | Adjunct Prof., University of Colorado, Co. USA. |
| 13.03.1989 - 12.08.1991 | Assistant Prof., Helwan University, Cairo Egypt. |
| 01.06.1988 - 22.12.1988 | Research Assistant, University of Colorado, USA. |
| 06.01.1986 - 22.12.1988 | Teaching Assistant, University of Colorado, USA. |
| 28.08.1978 - 06.06.1982 | Instructor, Helwan University, Cairo, Egypt. |

**HONORS and AWARDS:**

- Conference Chair "2021 International Conference on Mechanical Engineering and Intelligent Manufacturing (ICMEIM 2021). ICMEIM 2021 is organized by Innovative Science and Engineering Research Institute (ISERI). The conference will be held in Sapporo, Japan during Oct 27-29, 2021".
- Certificate of completed a program in: Certified Quality Auditors at King Saud University 10-12/ 02/ 2020 for a total of 15 training hours.
- Certificate of completed a program in: Board of Assessors for KSU- QMS at King Saud University 9-11/ 12/ 2019 for a total of 15 training hours.
- Sentinels of Science: Mathematics - September 2016 by Publons, top 10% of Peer reviewers in that field for 2016.
- Editorial Board Member for the International Journal of Mechanical Engineering and Applications(IJMEA); http://www.sciencepublishinggroup.com/j/ijmea, 5-2018- Now
- Editor of King Saud University Journal (Engineering Sciences), 2012- Now.
- Editorial Board Member for Journal of Mechanics Engineering and Automation, 2016- Now
- Certificate of appreciation and receiving an excellent researcher award from the college of engineering at King Saud University for excellence in scientific research for the year 2016- 2017.
- Member of the Board of Directors of the Faculty of Engineering at King Saud University Research Center, 30-10- 2014- 1-11-2016.
- TechConnect Innovation Award for the invention entitled "New Natural

Insulating Material" by the TechConnect World Innovation Summit & Showcase, June 15- 18, 2014, Washington, DC, USA.

- Second Prize winner of the Research Excellence Award for the year 2013-2014 by The College of Engineering, King Saud University.
- 41st Geneva International Exhibition of Inventions 2013 Bronze Medal for "Development of new beta bread by partial substitution of banana peel flour with wheat flour" April 10-14, 2013, Geneva, Switzerland.
- King Saud University Gold Medal and appreciation certificate for inventing and discovering a new insulating material, 2012.
- 40th Geneva International Exhibition of Inventions 2012 Gold Medal for "Manufacturing a new natural insulating material extracted from a plant grows up in Saudi Arabia" April 18-22, 2012, Geneva, Switzerland.
- British Invention Show 2011 Gold Medal for "Manufacturing a new natural insulating material extracted from a plant grows up in Saudi Arabia" October 19-22, 2011, London, UK.
- Best research award for the year 2010-2011 by the Deanship of Scientific Research and the Research Center of the College of Engineering, King Saud University.
- Distinguished Research and Publication Award for the year 2009-2010 by the Deanship of Scientific Research and the Research Center of the College of Engineering, King Saud University.
- Souvenir Medal for the best paper presented at the 5th international Engineering conference held on March 27-31, 2006 by Faculty of Engineering, Mansoura University, Mansoura-Sharm El-Shekh, Egypt.
- Condensed curriculum vitae included in the 1995, 12*th.* Edition issue of MARQUIS "Who's Who in the World".
- Egyptian Scholarship to study in USA for Ph.D. degree (1984-1988).
- Sigma Xi Grant-in-Aid for graduate research 1986 USA.
- AMIDEAST Peace Fellowship to study in USA for MS degree (1982-1984)
- Helwan University stipend for being one of the top-ranking students during the B. S. program 1974 and 1977.

## INVITATIONS AND PATENTS

- **Conference Chair and keynote speaker** at 2021 International Conference on Mechanical Engineering and Intelligent Manufacturing (ICMEIM 2021). ICMEIM 2021 is organized by Innovative Science and Engineering Research Institute (ISERI). The conference will be held in Sapporo, Japan during Oct 27-29, 2021
- **Organizing Committee Member and keynote speaker** at 4th International Conference on Materials Science and Research, April 29, 2021 (ICMSR-2021) as a Virtual Conference.

- **Session Chair** at The 9th Global Conference on Materials Science and Engineering (CMSE2020), Online on, 20- 23 November, 2020
- **Session Chair** at the International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, Toronto, Canada, 20- 21 June, 2013
- PCT filed at both USA and WIPO offices in two different languages, PCT/IB 2013/000737 entitled "PRODUCTION OF NOVEL BETA BREAD BY PARTIAL SUBSTITUTION OF WHEAT FLOUR WITH BANANA-PEEL FLOUR". **'WO2014167372'**, **http://patentscope.wipo.int/search/en/search.jsf, October 17, 2014.**
- Patent filed at the USA Patent Office # 13364309 entitled "Natural fiber insulation material and method for making the same"**.** **http://www.google.com/patents/US20130193365, February 1, 2013, published on August 2013.**
- **Session Chair** at the 3rd International Conference on Nanotechnology: Fundamentals and Applications, Montreal, Quebec, Canada, 7- 9 August, 2012
- **Session Co-Chair** at the7th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, 19- 21 July 2010, Antalya, Turkey.

## INTERNATIONAL MASS MEDIA RECOGNITION

1- Top of Mechanical Engineering according to AD Scientific Index 2022: World Scientist and University Rankings 2022, https://www.adscientificindex.com/scientist.php?id=414616.

2- Recognised among the list of Stanford University Names World's Top 2% Scientists for the years 2020 and 2021, 20 from Mechanical Engineering Department, King Saud University. The report prepared by Prof. John PA Loannidis of Stanford University and his team.

3- Ministero dell'Istruzione, dell'Università e della Ricerca
Department for Higher Education and Research General Directorate for the coordination, promotion and enhancement of research: we certify that **Mohamed Ali** is registered in REPRISE (the Register of Scientific Experts set up at the MIUR) for the following sections: Fundamental research, Applied research, Scientific popularization, 26/06/2018- Now, Roma, Italy.

4- **Mohamed Ali,** "Early-stage technologies attract corporate interest", an article wrote by Jermey Matthews about my new insulating material exhibited at the TechConnect conference and exhibition held in Washington DC, 15- 18 June, 2014, *Physics Today Magazine*, issue: July 2014, Publishers > AIP Publishing > Physics Today > Daily edition >

Enterprise > Post, http://scitation.aip.org/content/aip/magazine/physicstoday/news/10.1063/PT.5.5021.

5- **Mohamed Ali**, "New insulating material from invasive 'Apple of Sodom',", *ResearchSEA- Asia Research News*, 13 Sterndale Close, Girton Cambridge CB3 0PR, United Kingdom, Technology section, pp. 40, 2012.

## PAPERS PUBLISHED IN REFERRED JOURNALS

1- Redhwan Almuzaiqer, **Mohamed Elsayed Ali**, and Khaled Al-Salem, "Tilt Angle's Effects on Free Convection Heat Transfer Coefficient Inside a Water-Filled Rectangular Parallelepiped Enclosure", ***Processes* 2022**, Volume 10, Issue 2, 396. https://doi.org/10.3390/pr10020396, **Q3**

2- Redhwan Almuzaiqer, **Mohamed Elsayed Ali**, and Khaled Al-Salem "Effect of the Aspect Ratio and Tilt Angle on the Free Con-vection Heat Transfer Coefficient Inside A l2O3–Water-Filled Square Cuboid Enclosures" **Nanomaterials 2022**, 12(3), 500, pp. 1-32. https://doi.org/10.3390/nano12030500 . (This article belongs to the Special Issue **Impact of Nanofluid on Heat Transfer**), **Q2**

3- **M. Ali**, R. Almuzaiqer, K. Al-Salem, A. Alabdulkarem & A. Nuhait, "New novel thermal insulation and sound-absorbing materials from discarded facemasks of COVID-19 pandemic", **Scientific Reports, Journal** : SREP 41598 Article No : 2744, https://doi.org/10.1038/s41598-021-02744-8. Scientific Reports | (**2021**) 11:23240, **Q1**

4- M.M. Rashidi, Mohammad Alhuyi Nazari, Ibrahim Mahariq, Mamdouh El Haj Assad, **M. E. Ali**, R. Almuzaiqer, A. Nuhait and Nimer Murshid "Thermophysical Properties of Hybrid Nanofluids and the Proposed Models: An Updated 1 Comprehensive Study" Nanomaterials, Published: 16 November 2021, Nanomaterials **2021**, 11, 3084. https://doi.org/10.3390/nano11113084, **Q2**

5- **M. Ali**, A. Alabdulkarem, A. Nuhait, K. Al-Salem, G. Iannace, R. Almuzaiqer, "Characteristics of Agro Wasted Fibers as New Thermal Insulation and Sound Absorbing Materials: Hybrid of Date Palm Tree Leaves and Wheat Straw Fibers" **Published online June 1, 2021** at *Journal of Natural Fibers*. **Q1, Group 9,** https://www.tandfonline.com/doi/full/10.1080/15440478.2021.1929647.

6- **Mohamed Ali**, Abdullah Alabdulkarem, Abdullah Nuhait, Khaled Al-Salem, Redhwan Almuzaiqer, Omer Bayaquob, Hilmi Salah, Ahmed Alsaggaf & Zain Algafri, "Thermal Analyses of Loose Agave, Wheat Straw Fibers and Agave/Wheat Straw as New Hybrid Thermal Insulating Materials for Buildings", *Journal of Natural Fibers*, **Published online 7 Feb. 2020, DOI: 10.1080/15440478.2020.1724232. AJIFP = 89.583, http://dx.doi.org/10.1080/15440478.2020.1724232. Orinted Research Group,** Print ISSN: 1544-0478 Online ISSN: 1544-046X, 2018 IF: 1.252,

**Q1**. JOURNAL OF NATURAL FIBERS, **2021**, VOL. 18, NO. 12, 2173–2188, **https://doi.org/10.1080/15440478.2020.1724232**.

7- Gino Iannace, Giuseppe Ciaburro, **Mohamed Ali**, Abdullah Alabdulkarem, Abdullah Nuhait, "An Artificial neural network approach to modelling absorbent asphalts acoustic properties", *Journal of King Saud University- Engineering Sciences (JKSUES)*, 33 (**2021**) 213-220.

8- **M. Ali**, A. Alabdulkarem, A. Nuhait, K. Al-Salem, Gino Iannace, R. Almuzaiqer, A. Al-turki, F. Al-Ajlan, Y. Al-Mosabi, and A. Al-Sulaimi, "Thermal and acoustic characteristics of novel thermal insulating materials made of Eucalyptus Globulus leaves and wheat straw fibers", *Journal of Building Engineering, Volume 32, November **2020**, 101452*, **Q1**, 2018 IF: 2.378, **Group 9, ISSN: 2352-7102, https://doi.org/10.1016/j.jobe.2020.101452, AJIFP = 80.47**

9- Ali Alshahrani, Abdullah Alabdulkarem and **Mohamed Ali**, "Experimental measures on solar still applying internal cooling coil for optimum productivity under Riyadh Province ambient conditions", December 12, 2019, **2020, ISSN:** 1944-3994, **eISSN:** 1944-3986, 2018 IF: 1.234, **Q4**. January **2020**, *Desalination and water treatment*, **Volume: 187 Pages: 195-202 Published: MAY 2020**, IF: 0.854 , DOI: 10.5004/dwt.2020.25384.

10- **Mohamed Ali**, Milad Mansouri Rad, Abdullah Nuhait, Redhwan Almuzaiqer, Ashkan Alimoradi, Tlili Iskander, "New equations for Nusselt number and friction factor of the annulus side of the conically coiled tubes in tube heat exchangers" Applied Thermal Engineering, 16-10-2019. Volume 164, 5 January **2020**, 114545, **AJIFP = 85.567**, https://doi.org/10.1016/j.applthermaleng.2019.114545 **, Q1**

11- Khaled Al-Salem, Ebrahim Hosseini, Alireza Nohesara, Mohsen Mehri, **Mohamed Ali**, Redhwan Almuzaiqer, Ashkan Alimoradi, Tlili Iskander, "Suggestion of new correlations for the exergy efficiency and coefficient of exergy performance of annulus section of conically coiled tube-in-tube heat exchangers", Accepted (1-10-2019) in *Chemical Engineering Research and Design*. ISSN: 0263-8762, **Q2**, IF = 3.073, eISSN: 1744-3563. https://doi.org/10.1016/j.cherd.2019.10.002. Volume 152, December **2019**, Pages 309-319.

12- Saim Rachid, Youcef Ahmed, Hakan Fehmi Öztop, **Mohamed El-Sayed Ali** "Turbulent forced convection in a shell and tube heat exchanger equipped with novel design of wing baffles", International Journal of Numerical Methods for Heat and Fluid Flow, Volume: 29 Issue: 6 Pages: 2103-2127, DOI: 10.1108/HFF-12-2018-0754, Published: JUN 3 **2019** https://doi.org/10.1108/HFF-12-2018-0754. Accession Number: WOS:000484171800011, ISSN: 0961-5539, eISSN: 1758-6585

**13-** Shafqat Hussain, Hakan F. Öztop, Khalid Mehmood, **Mohamed E. Ali**, "Mixed convection and entropy production in a nanofluid filled closed space with inclined magnetic field", Journal of Thermal Analysis and Calorimetry, **2019,** DOI: 10.1007/s10973-019-08068-0,

https://doi.org/10.1007/s10973-019-08068-0, **September 2019, Volume 137, Issue 5, pp 1735–1755 Print** ISSN1388-6150, **Online ISSN**1588-2926, IF: **2.209**

14- Hakan F. Oztop, Mohammed A. Almeshaal, Lioua Kolsi, Mohammed Mehdi Rashidi, and **Mohamed E. Ali**, "Natural Convection and Irreversibility Evaluation in a Cubic Cavity with Partial Opening in Both Top and Bottom Sides", ***Entropy* 2019**, Volume: 21 Issue: 2, Article Number: 116, DOI: 10.3390/e21020116, Published: FEB 2019, Accession Number: **WOS:000460742200017**, ISSN: 1099-4300

15- Abdullah A.A.A. Al-Rasheda, Hakan F. Oztop, Lioua Kolsi, Attia Boudjemline, Mohammed A. Almeshaal, **Mohamed E. Ali**, Ali Chamkha "CFD study of heat and mass transfer and entropy generation in a 3D solar distiller heated by an internal column" *International Journal of Mechanical Sciences*, Volume 152, March **2019**, Pages 280-288. https://doi.org/10.1016/j.ijmecsci.2018.12.056, Accession Number: WOS:000459837400020, ISSN: 0020-7403, eISSN: 1879-2162, DOI: 10.1016/j.ijmecsci.2018.12.056, **AJIFP = 92.759 (2018)**

16- Krunal M. Gangawane, Hakan F. Oztop, **Mohamed E. Ali**, "Mixed convection in a lid-driven cavity containing triangular block with constant heat flux: Effect of location of block", *International Journal of Mechanical Sciences*, Volume 152, March **2019**, Pages 492-511. https://doi.org/10.1016/j.ijmecsci.2019.01.020, Accession Number: WOS:000459837400037, ISSN: 0020-7403, eISSN: 1879-2162, DOI: 10.1016/j.ijmecsci.2019.01.020, **AJIFP = 92.759 (2018).**

17- Darya S. Bondarenko, Mikhail A. Sheremet, Hakan F. Oztop, **Mohamed E. Ali**, "Natural convection of $Al_2O_3/H_2O$ nanofluid in a cavity with a 4 heat-generating element. Heatline visualization", *International Journal of Heat and Mass Transfer*,Vol. 130, (**2019**), PP. 564–574, **AJIFP = 93.735 (2018),** https://doi.org/10.1016/j.ijheatmasstransfer.2018.10.091, ISSN: 0017-9310, eISSN: 1879-2189, Accession Number: WOS:000456226400046

**18-** Mohamed Issam Elkhazen, Walid Hassen, Hakan F. Öztop, Lioua Kolsi, Abdullah A.A.A. Al-Rashed, Mohamed Naceur Borjini, **Mohamed E. Ali**, "Electro-thermo-convection in dielectric liquid subjected to partial unipolar injection between two eccentric cylinders", *International Journal of Numerical Methods for Heat & Fluid Flow*, ISSN: 0961-5539, https://doi.org/10.1108/HFF-08-2017-0308. Vol. 29 Issue: 1, pp.78-93, **2019, Accession Number: WOS:000457050100004, ISSN: 0961-5539, eISSN: 1758-6585**

**19-** Chakravarthula S. K. RAJU, Naramgari SANDEEP, **Mohamed E. ALI,** Abdullah O. NUHAIT**, "**HEAT AND MASS TRANSFER IN 3D MHD WILLIAMSON-CASSON FLUIDS FLOW OVER A STRETCHING SURFACE WITH NON-UNIFORM HEAT SOURCE/SINK**", Thermal Science journal, Group 8, Q3, ISSN 2334-7163 (online edition) ISSN 0354-9836 (printed edition), 2019, Vol. 23, No. 1, pp. 281-293,**

**https://doi.org/10.2298/TSCI160426107R, Accession Number: WOS:000460088000024, ISSN: 0354-9836, eISSN: 2334-7163.**

20- Shafqat Hussain, Hakan F. Öztop, Khalid Mehmood, and **Mohamed E. Ali**, "Control of combined convection in a nanofluid-filled lid-driven closed space via rectangular bar in the presence of magnetic field", *Journal of Thermal Analysis and Calorimetry*, Print ISSN 1388-6150, Online ISSN 1588-2926 https://doi.org/10.1007/s10973-018-7914-3 , Received 28 September 2018, Accepted 08 November 2018, First Online 20 November 2018, July **2019**, Volume 137, Issue 1, pp 289–306

**21-** Darya S. Bondarenko, Mikhail A. Sheremet, Hakan F. Oztop, **Mohamed E. Ali**, "Impacts of moving wall and heat-generating element on heat transfer and entropy generation of Al2O3/H2O nanofluid" *Journal of Thermal Analysis and Calorimetry*, **2018, 22-8-2018, ISSN: 1388-6150 (Print) 1588-2926 (Online), https://doi.org/10.1007/s10973-018-7715-8. Published on line 3-9-2018. Volume: 136 Issue: 2 Pages: 673-686, DOI: 10.1007/s10973-018-7715-8, Published: APR 2019, Accession Number: WOS:000463913600025, ISSN: 1388-6150, eISSN: 1588-2926**

22- F. Selimefendigil, H. F. Öztop, **Mohamed E. Ali**, "Mixed Convection of Hybrid Nanofluids in an Annulus", Journal of Modeling and Optimization **2018**;10(2):55-64, Non ISI., (ISSN: 1759-7676, DOI: https://doi.org/10.32732/jmo.2018.10.2.55).

23- Mikhail Sheremet, Hakan Oztop, Dmitriy Gvozdyakov, **Mohamed Ali**, "Impacts of heat-conducting solid wall and heat-generating element on free convection of $Al_2O_3/H_2O$ nanofluid in a cavity with open border", Special Issue "Heat Transfer Enhancement", A special issue of ***Energies* 2018**, *11*(12), 3434; https://doi.org/10.3390/en11123434, (ISSN 1996-1073). **Accession Number: WOS:000455358300195, DOI: 10.3390/en11123434, Published: DEC 2018, Q2**

24- **Mohamed E. Ali**, Abdullah O. Nuhait, Abdullah Alabdulkarem, and Redhwan Almuzaiqer, "Free convection heat transfer inside square water-filled shallow enclosures" **Group 8, Q1,** Received: April 8, 2018, Accepted: September 4, **2018**, Published: October 31, **2018**, ***PLOS ONE*** 13(10): e0204251, **https://doi.org/10.1371/journal.pone.0204251. eISSN: 1932-6203**

25- Abdullah Alabdulkarem, **Mohamed Ali**, Gino Iannace, Shereef Sadek and Redhwan Almuzaiqer, "Thermal analysis, microstructure and acoustic characteristics of some hybrid natural insulating materials" Construction and Building Materials, Volume 187, 30 October **2018**, Pages 185-196, **Q1**, **Group 8**. ISSN: 0950-0618, **AJIFP = 83.796 (2017), https://doi.org/10.1016/j.conbuildmat.2018.07.213**

26- **Mohamed Ali** and Shereef Sadek (June 27th 2018). Free Convection Heat Transfer from Different Objects, Heat Transfer Konstantin Volkov, IntechOpen, DOI: 10.5772/intechopen.75427. Available from: https://www.intechopen.com/books/heat-transfer-models-methods-and-

applications/free-convection-heat-transfer-from-different-objects, ISBN: 978-1-78923-265-3, Print ISBN: 978-1-78923-264-6

27- A. Hajipour, M.M. Rashidi, **M. E. Ali**, N. Frei-doonimehr, M. Fallahian, " Effect of Heat Transfer on the First and Second Law Efficiency Analysis and Optimization of an Air-Standard Atkinson Cycle," *High Temperature Journal, May* **2018**, *Volume 56, Issue 3, pp 433–438, ISSN: 0018-151X (print version), ISSN: 1608-3156 (electronic version), 2016 Impact Factor 1.110,* ***Group 8,*** **Q4**

28- **Mohamed Ali**, Abdullah Nuhait and Redhwan Almuzaiqer, "The effect of square tube location in a vertical array of square tubes on natural convection heat transfer", *Heat Transfer Engineering*. Volume 39, **2018** - Issue 12, Pages 1036-1051, Print ISSN: 0145-7632 Online ISSN: 1521-0537, http://doi.org/10.1080/01457632.2017.1358485, **Group 8, Q3,**

29- M. Jayachandra Babu, N. Sandeep, **M.E. Ali**, Abdullah. O. Nuhait, "Magnetohydrodynamic dissipative flow across the slendering stretching sheet with temperature dependent variable viscosity"**,** Results in Physics 7 (**2017**) 1801–1807, doi: http://dx.doi.org/10.1016/j.rinp.2017.05.018, **Group 8, ISSN: 2211-3797, Q2**

30- **Mohamed E. Ali** and Abdullah Alabdulkarem, "On Thermal Characteristics and Microstructure of a New Insulation Material Extracted from Date Palm Trees Surface Fibers", Construction and Building Materials**,** Vol. 138, 1 May **2017**, Pages 276–284**, Group 7, AJIFP = 85.526 (2016),** http://dx.doi.org/10.1016/j.conbuildmat.2017.02.012, Received 27 August 2016, Revised 5 February 2017, Accepted 6 February 2017, Available online 16 February 2017, ISSN: 0950-0618, eISSN: 1879-0526

31- G.Kumaran, N.Sandeep, and **M. E. Ali** "Computational analysis of magnetohydrodynamic Casson and Maxwell flows over a stretching sheet with cross diffusion", Results in Physics, Volume 7, **2017**, Pages 147–155, **Group 7, ISSN: 2211-3797**

32- **Mohamed Ali** and N.Sandeep, "Cattaneo-Christov model for radiative heat transfer of magnetohydrodynamic Casson-ferrofluid: A numerical study", Results in Physics, Volume 7, **2017**, Pages 21–30. **Group 7**

33- **Mohamed Ali**, "Experimental free convection heat transfer from inclined square cylinders" Heat and Mass Transfer, HAMT-D-16-00138, DOI: 10.1007/s00231-016-1881-7, published online: 14 October 2016August Heat and Mass Transfer, 53(5), 1643-1655, **2017**, **Group 7** http://link.springer.com/article/10.1007/s00231-016-1881-7

34- C.S.K.Raju, N.Sandeep and **M. E. Ali** "Unsteady liquid film flow of electrically conducting magnetic-nanofluids in the vicinity of a thin elastic sheet" Journal of Computational and Theoretical Nanoscience (CTN) vol. 14, No. 2, pp. 1140–1147 (**2017**), **Group 7, doi:10.1166/jctn.2017.6418**

**35-** C.S.K.Raju, N.Sandeep and **M. E. Ali** "Effect of temperature dependent viscosity on MHD radiative nanofluid flow caused by heated/cooled cone" Journal of Computational and Theoretical Nanoscience, vol. 14, No. 1, pp.

821–828, **2017** (CTN). **Group 6**, **DOI: https://doi.org/10.1166/jctn.2017.6280**

36- Muhammad Mubashir Bhatti, Tehseen Abbas, Mohammad Mehdi Rashidi, **Mohamed El-Sayed Ali**, "Numerical Simulation of Entropy Generation with Thermal Radiation on MHD Carreau Nanofluid towards a Shrinking Sheet" Entropy, Received 8 April 2016. Entropy 2016, 18(6), 200; doi:10.3390/e18060200, pp. 1-14, Entropy- 128573, **Group 6**.

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## PAPERS PUBLISHED IN REFEREED CONFERENCE PROCEEDINGS

**1-** **Mohamed Ali**, "Thermal and Acoustic Characteristics of New Materials extracted from Agro Wasted Materials as New Thermal Insulation Materials for Buildings", Keynote speaker Presentation at Third International Conference on New Trends in Sustainable Energy " From Waste to Energy" Pharos University in Alexandria, Egypt, ICNTSE-2021, 1 - 2 March **2022**. (Online).

**2-** **Mohamed Ali** and Abdullah Alabdelkareem, "New Novel Insulation Materials produced from Agro Wasted Materials and their hybrids", International Conference on Advanced Materials and their Applications

(ICAMA2021), 7-9 March, **2022**, at Prince Sattam bin Abdulaziz University in Al-Kharj, Saudi Arabia. (Online).

**3-** Keynote Presentation at International Webinar on Smart Grid & Green Energy Systems "Thermal and Acoustic Characteristics of New Materials extracted from Agro Waste Materials as New Thermal Insulation Materials for Green Buildings" **Mohamed E. Ali**, King Saud University, Saudi Arabia, November 15-16, **2021**. Organized by Coalesce Research Group.

**4-** Conference Chair and keynote speaker at 2021 International Conference on Mechanical Engineering and Intelligent Manufacturing (ICMEIM 2021). ICMEIM 2021 is organized by Innovative Science and Engineering Research Institute (ISERI). Sapporo, Japan during Oct 27-29, **2021**

**5-** Organizing Committee Member and keynote speaker at 4th International Conference on Materials Science and Research, April 29, 2021 (ICMSR-**2021**) as a Virtual Conference.

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**7-** Gino Iannace, **Mohamed Ali**, Umberto Berardi, Giuseppe Ciaburro, Abdullah Alabdulkarem, Abdullah Nuhait "Development and characterization of sound absorbing materials from agricultural wastes", The 49th International Congress and Exposition on Noise Control Engineering will be held in Korea, 23-26 August 2020. The Congress is hosted by the Korean Society for Noise and Vibration Engineering (KSNVE) on behalf of the International Institute of Noise Control Engineering (I-INCE), INTER-NOISE **2020**, e-congress, Seoul, Korean. Conference: 49th International Congress and Exposition on Noise Control Engineering - Inter-Noise 2020At: Seoul - Corea

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19- **Mohamed Ali**, "New natural insulating material extracted from the Apple of Sodam fibers", Scientific forum Towards a Better Environmental Future held at Shaqra University on 27-10-2014 (3-1-1436H) in Shaqra, Riyadh region, Saudi Arabia.

20- **Ali, M**., "New Natural Insulating Material", TechConnect World Innovation Conference & Expo., Washington, DC, USA, June 15- 18, 2014.

21- **Ali, M**., Zeitoun, O., Al-Ansary, H., and Nuhait, A., "Numerical Simulation of GE 7001 EA Gas Turbine Using Experimental Data for Compressor Inlet Air Cooling", Proceedings of the 10$^{th}$ International Conference on Heat transfer, Fluid mechanics and Thermodynamics,

Orlando, Florida, USA, 14- 16 July, 2014.
https://edas.info/web/hefat2014/programme.html

22- **Ali, M.**, Zeitoun, O., Al-Ansary, H., and Nuhait, A., "Experimental Study for air cooling using membrane covered tray", 5th International Conference on Porous Media and Their Applications in Science, Engineering and Industry, June 22- 27, 2014, Kona, Hawaii, Eds, ECI Symposium Series, Volume (2014). http://dc.engconfintl.org/porous_media_V/49, http://www.engconf.org/staging/wp-content/uploads/2013/04/14AP-Final-Program-w-onsite-revisions-062414.pdf

23- **M. Ali**, "Mixed convection boundary layer flows induced by a permeable continuous surface stretched with prescribed skin friction", Proceedings of the International Conference on Heat transfer, Fluid mechanics and Thermodynamics, Toronto, Canada, 20- 21 June, 2013.

24- **M. Ali**, A. El-leathay and Z. Al-Sofyany, "The effect of using $Al_2O_3$-water nanofluid as a coolant in vehicles radiator", Proceedings of the 3rd International Conference on Nanotechnology: Fundamentals and Applications, paper # 184, Montreal, Quebec, Canada, 7- 9 August, 2012. https://international-aset.com/ICNFA2012/program/ICNFA12Program.pdf

25- **Ali, M.**, Zeitoun, O., Al-Ansary, H., and Nuhait, A., "Air cooling using a matrix of ceramic tubes", Fourth International Conference on Porous Media and its Applications in Science, Engineering and Industry, June 17-22, volume 1453, pp. 307-311, 2012, Potsdam, Germany.

26- **Mohamed Ali** and Obida Zeitoun, "Thermal conductivity of a new natural insulating material extracted from some plant grows up in Saudi Arabia" International Conference on innovative Technologies, IN-TECH 2011, Bratislava, Slovakia, September 1-3, 2011. http://acta.fih.upt.ro/pdf/2011-1/ACTA-2011-1-Event-12.pdf

27- Patrick D. Weidman and **Mohamed E. Ali,** "Symmetric and asymmetric radial stagnation flows on a stretching cylinder", Euromech Fluid Mechanics Conference 8, September 13- 16, 2010, Altes Koenigliches Kurhaus, Bad Reichenhall, Germany.
http://www.euromech.org/conferences/EFMC/EFMC8

28- **Mohamed Ali**, O. Zeitoun and A. Nuhait "Forced convection heat transfer over horizontal triangular cylinder in cross flow." Proceedings of the 7th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, 19- 21 July 2010, Antalya, Turkey.
https://www.tib.eu/en/search/id/TIBKAT%3A749608374/Proceedings-of-the-Seventh-International-Conference/

29- **Mohamed E. Ali** and Hany Al-Ansary "Natural Convection Heat Transfer from Vertical Triangular Ducts" Proceedings of 2009 ASME Summer Heat Transfer Conference (HT09- 2009), San Francisco, California, USA, July 19-23, 2009. Paper # HT2009-88607(vol. 2, pp. 421-428, 2009).

30- O. Zeitoun, **Mohamed Ali** and A. Nuhait "Numerical study of forced convection around heated horizontal triangular ducts" Fourteenth

International Conference on Computational Modeling and Experimental Measurements, 10-12 June 2009, Algarve, Portugal.

31- **Mohamed Ali** and O. Zeitoun, "Nanofluids Forced Convection Heat Transfer inside Circular Tubes" Proceedings of the International Conference on Nanotechnology (ICON008), June 17-19, 2008, Jeddah, Saudi Arabia.

32- O. Zeitoun and **Mohamed Ali**, "Nanofluids Natural Convection Heat Transfer in Horizontal Annulus" Proceedings of the International Conference on Nanotechnology (ICON008), June 17-19, 2008, Jeddah, Saudi Arabia.

33- **Mohamed E. Ali** "Natural Convection Heat Transfer from Vertical Square Ducts" Proceedings of 2008 ASME Summer Heat Transfer Conference, Jacksonville, FL, USA, August 10-14, 2008. Paper # HT2008-56413, (vol. 1, pp. 293-300).

34- **Mohamed E. Ali** and Hany Al-Ansary, "Empirical Correlations for Natural Convection Heat Transfer from Horizontal Triangular Ducts," 6th international Engineering Conference, Mansoura/Sharm El-sheikh, March 18-23, 2008, Egypt.
http://www.philadelphia.edu.jo/newlibrary/eng/academic-journal/667-english-books/73808-engb-73808

35- **Mohamed E. Ali**, "Free Convection Investigation on Heat Transfer from Horizontal Rectangular and Square Ducts", Al-Azhar Engineering 9th International Conference (AEIC 2007), Cairo, Egypt, April 12-14, 2007.

36- Suhil Kiwan and **Mohamed E. Ali**, "Flow and Heat Transfer Characteristics Induced by a Stretching Surface in a Porous Media", 7th Saudi Engineering Conference (SEC7), Riyadh, Saudi Arabia, December 2-5, 2007.

37- **Mohamed E. Ali** and Hany Alansary, "Natural Convection Heat Transfer from Horizontal Triangular Ducts ", 7th Saudi Engineering Conference (SEC7), Riyadh, Saudi Arabia, December 2-5, 2007.

38- Hany Alansary, O. Zeitoun and **Mohamed E. Ali** "Numerical Study of Natural Convection from a Uniformly Heated Horizontal Triangular Ducts ", 7th Saudi Engineering Conference (SEC7), Riyadh, Saudi Arabia, December 2-5, 2007**.**

39- **Mohamed E. Ali**, "Experimental Investigation on Heat Transfer Coefficient from Horizontal Rectangular Ducts by free convection," The 4th Saudi Technical Conference and exhibition," Riyadh, Saudi Arabia, Vol. **III**, pp. 19-27, 2-6/12/2006.

40- **Mohamed E. Ali**, "The effect of lateral mass flux on the natural convection boundary layers induced by a vertically heated plate embedded in a saturated porous medium with internal heat generation' 5th International Engineering Conference, Mansoura-Sharm El-Shekh, March 27-31, 2006.

41- **Mohamed E. Ali**, "The effect of variable viscosity on flow and heat transfer of mixed convection induced by a continuous moving surface" *Proceedings of Fourth international Engineering Conference (**4th IEC**)*, 20-22 April, 2004, Mansoura University, Sharm El-Shiekh, Egypt.

42- **Mohamed E. Ali** and Geoffrey B. McFadden, "Linear stability of cylindrical Couette Flow using a convection regime base flow" Proceedings of *International Mechanical Engineering Conference (IMEC2004)*, Kuwait Society of Engineers, Part **1**, Paper # IMEC04-1001, pp. 1-19, December 5-8, 2004, Kuwait.

43- **Mohamed E. Ali**, "The effect of variable viscosity on a mixed convection boundary layer induced in manufacturing of extruded vertical materials" *Proceeding of the 2nd IIEC-2004*, December 19-21, 2004, Riyadh, Kingdom of Saudi Arabia.

44- **M. E. Ali**, "Natural convection heat transfer from vertical helical coils in high Prandtl number fluid" *Proceedings of Al-Azhar Engineering 7th International Conference (**AEIC**)*, **CD code M04/05**, 7-10 April, 2003, Al-Azhar University, Cairo, Egypt.

45- **Mohamed E. Ali**, Deepanjan Mitra, and Richard M. Lueptow, "Stability of a Suspension in Taylor Couette Flow" Proceedings of the Seventh International Conference of Fluid Dynamics and Propulsion (ICFDP7), December 19-21, (2001), Cairo, Egypt, Paper No. ICFDP7-2001056.

46- **Mohamed E. Ali** and Fahd Al-Yousef, "Laminar mixed convection boundary layers induced by a linearly stretching permeable surface" Proceedings of the Seventh International Conference of Fluid Dynamics and Propulsion (ICFDP7), December 19-21, (2001), Cairo, Egypt, ICFDP7-2001014.

47- **Mohamed E. Ali**, "The buoyancy effects on the boundary layers induced by continuous surfaces stretched with rapidly decreasing velocities" *Proceedings of the 6th Saudi Engineering Conference*,vol. **5**, pp. 591-605, 14-17 December, 2002, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia**.**

48- **Mohamed E. Ali** and Fahd A-Yousef, " Heat transfer and flow field on an extruded vertical material with suction or blowing*", The Fifth Saudi Engineering Conference*, vol. **4**, pp. 341-351, March 1-4, 1999, Makkah Al-Mukarramah, Saudi Arabia.

49- **Mohamed E. Ali**, "Natural convection from vertical helical coiled tubes in air," *Proceedings of the 33rd National Heat Transfer Conference*, Aug. 15-17, 1999, Albuquerque, New Mexico, USA, Paper No. **NHTC 99-114**. https://inis.iaea.org/search/searchsinglerecord.aspx?recordsFor=SingleRecord&RN=31014052

50- **Mohamed E. Ali** and Fahd Al-Yousef, "Heat transfer and flow field on an extruded vertical material," *The 10th International Conference on Mechanical Power Engineering*, vol. **1**, pp. 207-219, Dec., 16-18, 1997, Assiut, Egypt.

51- **Mohamed E. Ali**, "Heat transfer characteristics of a stretched surface with suction or injection," *Fifth International Conference of Fluid Mechanics,* Vol. **III**, pp. 959-971, (1995), Cairo, Egypt. http://icfd-egypt.com/PDF/ICFM5-1995-Proceedings.pdf

52- **Mohamed E. Ali**, "Boundary layer flow characteristics of a stretched surface with suction or injection," *The Fourth Saudi Engineering Conference*, Vol. **IV**, pp385-394, (1995), Jeddah, Saudi Arabia.

53- **Mohamed E. Ali** and Patrick D. Weidman, "Symmetry and instability of radially heated circular Couette flow in a tall vertical annulus," 3rd. *International Congress of Fluid Mechanics,* Vol. **I**, Sec. 5, pp. 271-283, (1990), Cairo, Egypt.

## CONFERENCE PRESENTATIONS

1- "Manufacturing a new natural insulating material extracted from a plant grows up in Saudi Arabia", The 13th Gulf Industrialists Conference and International Exhibition, "Knowledge-Based Industries and New Technologies", January 17- 19, 2012, Riyadh, Saudi Arabia.

2- "Stability of a suspension in Taylor Couette flow," *53rd Annual Meeting, APS Division of Fluid Dynamics, 2000*, Washington, DC, USA.

3- "A linear stability analysis of cellular spiral Couette flow" *45th Annual meeting, APS Division of Fluid Dynamics, 1992*, Tallahassee, Florida, USA.

4- "The instability of Taylor-Couette flow with radial heating," *41st Annual Meeting, APS Division of Fluid Dynamics,* 1988, Buffalo, NY., USA.

5- "Stability of Taylor-Couette flow with radial heating," *40th Annual Meeting, APS Division of Fluid Dynamics*, 1987, Eugene, OR., USA.

6- "Preliminary results on the stability of Taylor-Couette flow with radial heating," *5th Taylor Vortex Flow Working Party*, 1987, Tempe, AZ., USA.

7- "Visualization of the stability of viscous flow between rotating cylinders with radial thermal gradient," *62nd SWARM Division Meeting of AAAS,* 1986, Boulder, CO, USA.

## SOCIETY ACTIVITIES

*Member:* American Society of Mechanical Engineering.

American Socity of Thermal and Fluids Engineers

American Physical Society.

Egyptian Engineering Syndicate.

Global Environmental Standards (GES)

## SEMINARS PRESENTATIONS

1- Technology University at Dresden, Germany, Faculty of Mechanical Science and Engineering, Institute of Power Engineering, "The potential of using nanofluid as a coolant in vehicles radiator", 21-2-2019, Dresden, **Germany.**

2- University of Studies of Campania, Luigi Vanvitelli, Engineering department, "Discovering a New natural insulating and absorbing sound material extracted from the Apple of Sodom fibers", 22-2-2019, Napoli, **Italy.**

3- Firat University, Mechanical Engineering Department, Technology College, "Thermal insulating materials using natural fibers", September 25, 2018, Elazig, **Turkey.**

**4- University of Colorado, Mechanical Engineering Department, Special seminar, "Discovering a new natural insulating material extracted from Calotropis procera trees", June 19, 2014, Boulder, Colorado, USA.**

5- The City College of New York, Department of Mechanical Engineering, "Discovering a new natural insulating material extracted from Calotropis procera trees", July 1st, 2014, New York, **USA.**

6- Mechanical Engineering Seminar, King Saud University, Riyadh, **Saudi Arabia**, 2008 entitled "New empirical correlations for natural convection heat transfer from rectangular and square ducts".

7- Mechanical Engineering Seminar, King Saud University, Riyadh, **Saudi Arabia**, 2004 entitled "Linear stability of cylindrical Couette flow in the convection regime".

8- Mechanical Engineering Seminar, King Saud University, Riyadh, **Saudi Arabia**, 2003entitled "Hydrodynamic stability of a suspension in cylindrical Couette flow".

9- Mechanical Engineering Seminar, Northwestern University, IL., **USA**, 2000 entitled "Hydrodynamic stability of a suspension in cylindrical Couette flow".

10- Mechanical Engineering Seminar, King Saud University, Riyadh, **Saudi Arabia**, 1995 "New correlations for natural convection from vertical helical coils".

11- Mechanical Engineering Seminar, King Saud University, Riyadh, **Saudi Arabia**, 1992 entitled "stability of Taylor Couette flow with radial heating".

## COUNCILS

1. Member, Mechanical Engineering Department Council of King Saud University since the academic year 1992/1993.

2. Member, Mechanical Engineering Department Council of University of Colorado at Boulder, CO. USA through the 1*st.* semester of 1991/1992.
3. Member, Mechanical Engineering Department Council of Helwan University at Cairo, Egypt. Period: Fall 1989 to spring of 1990.

## ADMINISTRATIVE POSITIONS

1- Coordinator, University Academic advisor for the freshmen students at the College of Engineering.

2- Member, University Workshop on "Distinguished Research and Publication Quality Awards.

3- Collaborative member, Committee, Center of Excellence Research in Engineering Materials (CEREM).

4- Member, Department Program Assess Committee for ABET.

5- Member, Department Strategic Plan Committee, 2005- present.

6- Coordinator, Thermal and Fluid Lab. Committee, 2005- present.

7- Coordinator, Student Academic Advisor Committee.

8- Coordinator, Conferences, Workshops and Short Courses Committee, 2004, present.

9- Coordinator, Social and Cultural Activities Committee, 1992- present.

10- Member, Faculty Members Promotion Committee, 2006- present

## ENGINEERING CONSULTATIONS

1. Consultation for Pure Cycle Corporation on a two-phase flow project at Golden, Colorado, USA from 1. 11. 1991 to 31. 3. 1992 while working as an adjunct professor at University of Colorado at Boulder, Colorado USA.

## ACADEMIC AND PROFESSIONAL ACTIVITIES

1. Contribution to an eleven days intensive technical workshop on reciprocating pumps and compressors (theory, operation, and trouble shooting), Tripoli, Libya, Nov. 4-15, 1990. This workshop was organized by the Arab international Consultants (ARICON) Cairo, Egypt. This participation included the preparation of workshop notes and lectures.
2. Contribution to a five days intensive technical workshop on hydraulic pumps trouble shootings (theory, operation, and trouble shooting), Riyadh, Saudi Arabia, May 17-21, 1997. This workshop was organized by the Saudi Center for Management and Technical Development

(SADMTC) Riyadh, Saudi Arabia. This participation included the preparation of workshop notes and lectures.

3. Contribution to a five days intensive technical workshop on positive displacement pumps (theory, operation, and trouble shooting), Riyadh, Saudi Arabia, December 29th, 2001 to January 2nd, 2002. This workshop was organized by the Saudi Engineering Committee, Riyadh, Saudi Arabia. This participation included the preparation of workshop notes and lectures.
4. Contribution to a five days intensive technical workshop on centrifugal pumps (theory, operation, and trouble shooting), Riyadh, Saudi Arabia, October 12-16, 2002. This workshop was organized by the Saudi Engineering Committee, Riyadh, Saudi Arabia. This participation included the preparation of workshop notes and lectures.
5. Contribution to a five days intensive technical workshop on pumps (theory, operation, and trouble shooting), Riyadh, Saudi Arabia, November 4-8, 2006. This workshop was organized by the Dallah Human Skills Training & Development, Riyadh, Saudi Arabia. This participation included the preparation of workshop notes and lectures.

**REFEREED TECHNICAL PAPERS FOR:**

1- ASME summer heat transfer conference 2008.

2- International Journal of Heat and Mass Transfer.

3- International Journal of Heat and Fluid Flow.

4- International Journal of Thermal Sciences.

5- ASME, Journal of Heat Transfer.

6- Applied Thermal Engineering.

7- Heat and Mass Transfer.

8- MECCANICA, International Journal of the Association of Theoretical & Applied Mechanics, AIMETA

9- Chemical Engineering Communications.

10- Al-Qassim University Journal for Engineering and Computer Sciences, Saudi Arabia.

11- The 4th Saudi Engineering Conference held in Jeddah, Saudi Arabia, 1995.

12- The 5th Saudi Engineering Conference held in Jeddah, Saudi Arabia, 1999.

13- The 6th Saudi Engineering Conference held in Jeddah, Saudi Arabia, 2002.

14- The 7th Saudi Engineering Conference held in Riyadh, Saudi Arabia, 2007.

15- Evaluation of many scientific proposals for King Abdulaziz City for Science and Technology (KACST), Riyadh, Saudi Arabia.

## RESEARCH PROJECTS

1. Research group leader for 9 years in a row, involving publish at least 5 papers each year in ISI journals. Each year is sponsored by the deansheap of scientific research at King Saud University.
2. Obida Zeitoun, **Mohamed Ali,** Basharat Salim, and Fayçal Ben Yahya, "Partial Load Operation of a Turbine and Its Impact on the Useful Life of Hot Gas Path Components and Environment Pollution", supported by the Saudi Electricity Company, Project # RFP NO. SG512, (funded project, SR 710000.00), starts at September, 2014.
3. Obida Zeitoun, A. Nuhait, **Mohamed El-Sayed Ali**, and Hany Abdulrahman Alansary, "Nonconventional Desalination Using Freezing Technique", Project # 13-WAT2084-02, supported by the National Plan for Science, Technology and Innovation, (funded project, SR 1176000.00), 2014.
4. **Mohamed Ali**, Obida Zeitoun, H. Al-Ansary and A. Nuhait, "Performance improvement of gas turbine station in the Kingdom using membrane evaporative inlet air cooling" Project # 08-ENE220-2 supported by The National Plan for Science, Technology and Innovation, (funded project, SR 929000.00), 2012.

5. **Mohamed Ali** and Obida Zeitoun, "Extracting new insulating material from some plants in the Kingdom" Project # 08-ENE335-02 supported by The National Plan for Science, Technology and Innovation, (funded project, SR 590560.00), 2012.

6. **Mohamed Ali** and Obida Zeitoun, "Natural convection heat transfer using nanofluids in horizontal enclosure" Project # nano 54/1429 supported by King Abdullah Institute for Nanotechnology, (funded project, SR 257000.00), 2011.

7. Obida Zeitoun and **Mohamed Ali** and, "Experimental Investigation on cooling a circular horizontal surface using a nanofluid liquid jet" Project # nano 42/1429 supported by King Abdullah Institute for Nanotechnology, in progress, (funded project, SR 273000.00), 2011.

8. **Mohamed E. Ali** and Patrick D. Weidman, "Numerical study of symmetric and asymmetric radial stagnation flow on a horizontal stretching cylinder" Project number 43/431 supported by the Deanship of Scientific Research and College of Engineering Research Center at King Saud University, Saudi Arabia, 2011, (Funded project, SR 25650,00), 2010.

9. Haney Al-Ansary and **Mohamed Ali**, " Experimental study of steady state natural convection heat transfer from capped ends vertical triangular cross-section ducts in air" Project number 6/429 supported by the College of Engineering Research Center at King Saud University, Saudi Arabia, 2008 (funded project, SR 39700,00).

10. Abdullah Nuhit, **Mohamed Ali** and Obida Zeitoun, "Numerical modeling of forced convection heat transfer around triangular cross-section ducts in air" Project number 35/428 supported by Saudi Arabian Industrial Company (SABIC) and the College of Engineering Research Center at King Saud University, September 2007, (Funded project, SR 30400,00).

11. Abdullah Nuhit, **Mohamed Ali** and Obida Zeitoun, "Experimental study of steady state forced convection heat transfer from triangular metallic ducts in wind tunnel" Project number 17/428 supported by Saudi Arabian Industrial Company (SABIC) and the College of Engineering Research Center at King Saud University, September 2007, (funded project, SR 30700,00).

12. **Mohamed E. Ali**, "Experimental study of steady state natural convection heat transfer from capped ends vertical rectangular and square cross-section ducts in air" Project number 50/428 supported by the College of Engineering Research Center at King Saud University, Saudi Arabia, 2007, (Funded project, SR 30000,00).

13. **Mohamed E. Ali**, "Experimental study of steady state natural convection heat transfer from noncircular metallic ducts" Project number 33/426 supported by the College of Engineering Research Center at King Saud University, Saudi Arabia, 2007 (funded project, SR 40000,00).

14. Haney Al-Ansary and **Mohamed Ali**, " Experimental study of steady state natural convection heat transfer from triangular metallic ducts" Project number 22/427 supported by the College of Engineering Research Center at King Saud University, Saudi Arabia, 2007 (funded project, SR 40000,00).

15. **Mohamed E. Ali**, “The effect of temperature dependent viscosity on mixed convection boundary layer induced over a moving surface" Project number 20/424 supported by the College of Engineering Research Center at King Saud University, Riyadh, Saudi Arabia, 2005 (funded project, SR 30000.00).

16. **Mohamed E. Ali,** “Linear stability analysis for particle suspension in Taylor-Couette flow” Report number 1/422 supported by the College of Engineering Research Center at King Saud University, Riyadh, Saudi Arabia, 2003, (SR 15000.00).

17. E. Magyari, **M. E. Ali** and B. Keller, “Boundary-Layer flows induced by continuous surfaces stretched with rapidly decreasing velocities” Report

number 10/2000 published in Swiss Federal Institute of Technology Zurich, Switzerland.