

## **CURRICULUM VITAE**

**A. M. El-Kersh**

### **PERSONAL DATA**

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### **EDUCATION**

**Ph.D.** in Mechanical Engineering, Paisley College of Technology, Scotland, United Kingdom, 1983. Title of Thesis: Investigation into Design and Performance of Annular Diffusers.

**M. Sc.** In Mechanical Engineering, Alexandria University, Faculty of Engineering, Alexandria, Egypt, 1979. Title of Thesis: Combustion Process of Stratified Charge Engines.

**B. Sc.** in Mechanical Power Engineering, Alexandria University, Faculty of Engineering, Alexandria, Egypt, 1973.

### **CURRENT ACADEMIC POSITION**

Professor Emeritus, Department of Mechanical Power Engineering & Energy, Faculty of Engineering, Minia University, Egypt.

### **SCIENTIFIC AND RESEARCH INTERESTS**

Computational Fluid Dynamics , Turbo-machines and Efficiency of Energy systems.

### **ACADEMIC POSITIONS**

Since 2011 Professor Emeritus, Faculty of Eng., Minia University, Egypt.  
2006- 2011 Professor, College of Engineering, Taif University, KSA.  
2002-2006 Professor, Faculty of Engineering, Minia University, Egypt.  
1994-2002 Associate Prof., Faculty of Engineering, Minia University, Egypt.  
1990-1994 Assistant Professor, Jubail Industrial College, KSA.  
1989-1990 Associate Prof., Faculty of Engineering, Mousel University, Iraq.  
1987-1989 Associate Prof., Faculty of Engineering, Minia University, Egypt.  
1983-1987 Assistant Prof., Faculty of Engineering, Minia University, Egypt.  
1980-1983 Teaching Assistant, Paisley College of Technology, UK.  
1979-1980 Teaching Assistant, Faculty of Eng., Minia University, Egypt  
1974-1979 Demonstrator, Faculty of Engineering, Minia University, Egypt.

## **ADMINISTRATIVE POSITIONS**

- 2006- 2011 Founder & Chairman of Mechanical Engineering Department, Taif University, KSA. Three majors were established to meet accreditation ABET criteria; mechanical power, design & production and mechatronics engineering.
- 1990- 1993 Founder & A/Chairman of Mechanical and Production Engineering Department, Jubail Industrial College, Royal Commission, KSA. Three majors were established to meet accreditation ABET criteria; air conditioning and refrigeration, production and electro-mechanical engineering.
- 1996-1998 Director of Minia University Computer Centre.
- 2001-2003 Director of Scientific Equipment Maintenance Centre, Faculty of Engineering, Minia University.

## **PROFESSIONAL ACTIVITIES**

- 2018 Member of Faculty council , Faculty of Engineering, Minia University.
- 2014-2015 Head of Faculty council sub-committee for library affairs, Minia University.
- 2013-2014 Member of Faculty council , Faculty of Engineering, Minia University.
- 2013-2014 Member of Faculty council sub-committee for students affairs, Faculty of Engineering, Minia University.
- 2010-2011 Member of University Standing Committee for Curriculum Development, Taif University, KSA.
- 2009 Member of University Higher Education Council, Taif University, KSA.
- 2008-2009 Member of University Scientific Council, Taif University, KSA.
- 2008 Member of University Standing Coordinating Committee for admissions and registration deanship, Taif University, KSA.
- 2008 Member of the University Standing Committee for the preparation of the Ninth Development Plan of the University, Taif University, KSA.
- 2007 Member of University Self-evaluation Committee, Taif University, KSA.
- 2007 Chairman, , College of Engineering Self-evaluation and Accreditation Committee , Taif University, KSA.
- 2006 Member of University Standing Committee for the development of Taif University web site , Taif University, KSA.
- 2005 Member of transport committee to study the performance and needs of Egyptian railways, Minister of Transportation, Ministerial Decree No. 514, 11/12/2005, Egypt.
- 2005 Member of transport committee to assess the performance of Egyptian railways workshops, Minister of Transportation, Ministerial Decree No. 125 , 27/3/2005, Egypt.
- 2005 Conference Advisor, the Third Minia International Conference for Advanced Trends in Engineering, 3-5 April 2005, Minia university, Egypt.

- 2004-2005 Associate member for Engineering, Certificate Equivalence (Ph.D., M.Sc and B. Sc.), Supreme Council of Universities, Egypt.
- 2004 Executive Manager, Quality Assurance and Accreditation Project QAAP, Faculty of Engineering, Minia University.
- 2003 General Coordinator of the first scientific symposium on agricultural industrialization in Minia Governorate, Faculty of Engineering, Minia University, 2 - 4 February 2003.
- 2002 Co-chairman of organising committee and Executive secretary, the Second Minia International Conference for Advanced Trends in Engineering, 7 – 9 April 2002, Minia, Egypt.
- 2001 Member of university committee to establish the academic degree requirements of the Faculty of Computer and Information , Minia University, September 2001.
- 1993-1994 Project Leader for Curriculum Development Unit (CDU), Jubail Industrial College, KSA.
- 1991-1993 Project Leader for a Feasibility Study to Establish Fire- Fighting and Rescue Training Centre in Jubail Industrial City, KSA.
- 1989 Secretary of the First Conference on Energy and its Applications, Minia University, Egypt.
- 1988 Secretary of the Second Conference on Energy and its Applications, Minia University, Egypt.
- 1986 Secretary of the First Conference on Energy and its Applications, Minia University, Egypt.

### **FUNDED PROJECTS**

- 2011 Performance of Conical Diffusers Equipped with Center Bodies at Inlet, Project No. 1262/432/1, Taif University, KSA.
- 2010 Study of Turbulent Convective Heat Transfer in a Rectangular Duct with Triangular ribs on the Heated Surface, Project No. 925/431/1, Taif University, KSA.
- 2010 Application of Solar Energy For Air Conditioning In Humid Zones, Project No: 1/431/924, Taif University, KSA.
- 2007 valuation of University Performance in the light of the Evaluation Systems in the United States, Britain and the Arab Republic of Egypt and the Possibility of Benefit in the Kingdom, Taif University, KSA.
- 2004-2005 Establish an Internal Quality Assurance System at the Faculty of Engineering , Quality Assurance & Accreditation Project, Ministry of Higher Education, Egypt.
- 1991-1993 Feasibility Study to Establish Fire- Fighting and Rescue Training Centre in Jubail Industrial City, the main objectives of the study was to unify and optimize the fire-fighting/emergency standards and practices for SABIC companies by having local training facility, KSA.
- 1986-1988 Correlation Study of Fuel Economy, Exhaust Emission and Noise Control of Combustion Systems with Feasibility Assessment as Applied in El-Minia Governorate, American Linkage Project, Grant FRCU No. 851068, Minia University, Egypt.

## **SELECTED CONSULTED PROJECTS**

1. Analysis of failures, accidents, evaluation of maintenance of workshops and the safety of trains , Egyptian Railways , Egypt .
2. Water pumping station of industrial city of Minia, Minia, Egypt .
3. Mechanical works of Childeren Hospital, Minia University, Minia.
4. The second stage of Air ventilation system of the Faculty of Pharmacy, University of Minia, Minia.
5. Mechanical works of the Dental Hospital - Minia University – Minia.
6. Evaluation of small projects for young people , Social Fund , Minia governorate, Egypt.

## **ATTENDING TRAINING SESSIONS**

1. Strategic planning in Academic Institutions, 4 - 6 April 2009, Taif University, KSA.
2. Methods and Strategies of University Teaching, 23- 25 February 2007, Taif University, KSA.
3. Effective Communication Skills , 3-5 March 2007, Taif University, KSA.
4. Scientific Research Skills in Light of Current Developments , 11-13 March 2007, Taif University, KSA.
5. The Foundations of the Construction and Development of University Courses , 2- 4 April 2007, Taif University, KSA.

## **SUPERVISED THESES**

1. S. S. Waheed, "Heat Transfer in Oil Flames", Ph.D., Minia University, 1987.
2. A. Omer, "Air Distribution in Air Conditioned Rooms", M.Sc., Minia University, 1988.
3. A. A. Aref, "The Combustion Rate of Solid and Gaseous Fuels", Ph.D., Minia University in collaboration with Leeds University, 1989.
4. M. A. Mahmoud, "Design and Performance of Domestic Solar Hot Water Systems", M.Sc., Minia University, 1989.
5. M. A. Mahmoud, "Design and Performance of agricultural Solar Drying Systems", Ph.D., Minia University, 2002.
6. M. Salah, "Mixing and Hydraulics in Agitated Vessels of Different Geometries", M. Sc., Minia University, 2003.
7. M. M. El-Gendi, "Effect of Varying Aspect Ratio on the Secondary Flow Generated Through a Rectilinear Accelerating Blade Cascade", M. Sc., Minia University, 2003.
8. M. M. A. Moustafa, " Mathematical Modelling of Aluminium Cells for Improved Performance", Ph.D. Assiut University, 2005.
9. Mohamed Ramadan, "Investigation of Flow through Asymmetric Plane Diffusers, M. Sc., Minia University, 2007.
10. A. M. Darwish, "Investigation of Flow and Heat Transfer in a Ribbed Rectangular Duct", M. Sc., Minia University, 2015.

11. Nasr, Youssef G. "Modulating Capacity Control in Vapor Compression Cycle Working With HFC/HC", M. Sc., Minia University(ongoing supervision).
12. A. M. Darwish, "Study of Heat Transfer and Fluid Flow in Jet Impingement with the use of Nanofluid", Ph.D., Minia University (ongoing supervision).

## **PUBLICATIONS**

1. Elgammal, A. H. and **El-Kersh, A.M.**, "A Method for Predicting Annular diffuser Performance with Swirling inlet Flow", Mechanical Engineering Science, Vol. 23, No. 3, pp. 107-112, 1981.
2. **El-Kersh, A. M.** , and Elgammal, A. H., "Boundary Layer Calculations in Annular Diffusers with Swirled Flow", Faculty of Engineering Bulletin, Alexandria University, Vol. xx, pp.267-295, 1981.
3. **El-Kersh, A. M.**, Elgammal, A. H. and Maccallum, N. R. L., "An Experimental Investigation of the Performance of Equiangular Annular Diffusers with Swirled Flow", Mechanical Engineering Science, Vol. 199, No. C4, pp. 293-297, 1985.
4. **El-Kersh, A. M.** , and Elgammal, A. H. ,"A Lag-Entrainment Method for the Prediction of Turbulent Boundary Layer in Annular Diffuser with Swirled Flow", The Bulletin of the Faculty of Engineering, Minia University, Vol. 4, Part 1, pp. 159-181, 1985.
5. **El-Kersh, A. M.** and Abou-El-Soud, S.A . , "Aerodynamic Noise Generated by Airfoil Placed in Uniform Flow", 2nd Conference on Theoretical and Applied Mechanics, A.R.E., pp128-141, March 1985.
6. **El-Kersh, A. M.**, and Elgammal, A. H. , "Influence of Swirl and Turbulence on Annular Diffuser Performance", 3rd Joint International Conference on Mechanical Engineering, Zagazig University, pp. TF-2-1 : TF-2-13, April 1985.
7. **El-Kersh, A. M.**, and Bassily Hanna, M., "Effect of wall Curvature on Performance of Curved-Wall Diffusers", 3rd Joint International Conference on Mechanical Engineering, Zagazig University, pp. TF-12-1: TF-12-8, April 1985.
8. **El-Kersh, A. M.**, "Algebraic Prediction of Turbulent Boundary Layers in Adverse Pressure Gradient", 1st Conference on Aeronautical Sciences & Aviation Technology, Military Technical College, pp. 39-46 May 1985.
9. **El-Kersh, A. M.** and Abou-El-Soud, S.A. , "Aerodynamic Performance and Associated Noise Generation Spectra of Airfoil", 1st Conference on Aeronautical Sciences & Aviation Technology, Military technical College, pp. 221-232, May 1985.
10. **El-Kersh, A.M.** and Abdel Azim, O. , "Behaviour of Fluid Flow in Curved Channels", 1st Conference on Energy and its Applications, El- Minia University, pp.234-246, January 1986.
11. **El-Kersh, A. M.**, Abou El-Soud, S.A. and Bassily Hanna, M. , "On the Behaviour of Wakes and Associated Pressure Fluctuation in a Curved-Wall Diffuser", 1st Conference on Energy and its Applications, El-Minia University, pp. 184-199, January 1986.
12. Bassily Hanna, M., **El-Kersh, A. M.** and Matta, N. Sh. , "A Simple Method to Improve the Performance of a Curved-wall Diffuser", Fourth Egyptian German Seminar, Technology Transfer, GHK Kasel University, West Germany, 16-18 July 1986.

13. **El-Kersh, A. M.**, "Improvement of Stall Margin of An Axial Flow Fan", Faculty of Engineering and Technology Bulletin, El-Minia University, vol. 5, Part 1, pp. 161-171, 1986.
14. **El-Kersh, A. M.**, Abou-El-Soud, S. A. and Bassily Hanna, M. , "Inlet Flow Conditions and associated Noise Level of Vehicle Cooling Fan", 6th International Conference for Mechanical Power Engineering, Menofia University, December 1986.
15. Wahaab, M. A., **El-Kersh, A. M.** and Abou-El-Seoud, S. A., "Correlation Study of Fuel Economy, Exhaust Emission and Noise Control of Combustion Systems with Feasibility Assessment as Applied in El-Minia Governorate," American Linkage Project, Grant FRCU No. 851068, Supreme Council of Universities, Egypt, 1986.
16. Wahid, S. S., **El-Kersh, A.M.**, El-Mahallawy, F.M. and Wahaab, M. A., "Measurements in Oil-Flames in a Model Furnace of Square Cross-Section ", 2nd Conference on Energy and its Applications, El-Minia University, pp. 9-33, Jan. 1988.
17. Wahid, S. S., **El-Kersh, A.M.**, El-Mahallawy, F.M. and Wahaab, M. A., "Experimental and Analytical Determination of Heat Transfer in Oil-Flames", 2nd Conference on Energy and its Applications, El-Minia University, pp. 64-85, Jan. 1988.
18. Nassar, Mamdouh M. , Fadali, Olfat A. and **El-Kersh, A. M.** , "Flow Behaviour Index of Coal-Water Mixture", Faculty of Engineering and Technology Bulletin, El-Minia University, Vol.7, Part 1, pp. 140-150, 1988.
19. Wahaab, M. A., **El-Kersh, A.M.** and Wahid, S.S., "Heat Liberation and Noise of Square Cross-Section Oil-Fired Furnace", XI-th Int. Symp. On Combustion Process , Sep. 27 Oct. 1, 1989, Miedzzydroje, Poland.
20. Aref, A. A., Bradley, D., Wahaab, M. A. and **El-Kersh, A.M.**, "Burning Velocities of Methane-Air Flames", Proceedings of the seventh International Engineering Conference, Cairo University, Dec. 1990.
21. Aref, A. A., El-Din Habik, S., Bradley, D., Wahaab, M.A. and **El-Kersh, A. M.**, "The Effect of Graphite Powder Addition on Methane-Air Flames", Proceedings of the seventh International Engineering Conference, Cairo University, Dec. 1990.
22. **El-Kersh, A. M.**, and Bassily Hanna, M., "Aerodynamic Analysis and Control for Horizontal-Axis Wind Turbines", Proceedings of the seventh International Engineering Conference, Cairo University, December 1990.
23. Abdel Salam, M. S., **El-Kersh, A.M.**, Hegazy, A. A., and Mohamed, A.O., "Hot Air Characteristics in Ventilated Room with High Sidewall Inlet", Faculty of Engineering and Technology Bulletin, El-Minia University, Vol. 10, Part 1, 1991.
24. Rizk, M., **El-Kersh, A.M.** and Mahmoud, M., " Static and Dynamic Performance of a Domestic Solar Water Heating System", International Conference Energex 91, Puerto Rico, Sep. 1991.

25. **El-Kersh, A. M.**, “Flow Pattern and Collection Efficiency of Cyclone Separators”, Bulletin of the Faculty of Engineering, Assiut University, Vol. 26, No. 2, pp. 47-56, July 1998.
26. **El-Kersh, A. M.**, “Flow Pattern Past Repeated Square Ribs In Rectangular Ducts”, Bulletin of the Faculty of Engineering, Assiut University, Vol. 27, No. 1, pp. 101-109, Jan. 1999.
27. **El-Kersh, A. M.** and Ali, W. Y., “Analytical Study of Elastically Deformed Polyamide Journal Bearing Reinforced by Copper Strips”, Internationale Fachzeitschrift fur Metallurgie, Metall, 53, Jahrgang, Nr. 1-2/99, pp. 48-52, 1999.
28. Youssef, M, **El-Kersh, A. M.**, Gohar, N. And Ali, W.Y., “Monitoring Automotive Engine Wear by Ferrographic Oil Analysis”, 5 th International of the Egyptian Society of Tibology, EGTRIB 5, April 10-12, 1999.
29. **El-Kersh, A. M.**, “Analytical Study of Polyamide Journal Bearing Reinforced by Copper Fibres”, Internationale Fachzeitschrift fur Metallurgie, Metall, 53, Jahrgang, Nr. 7-8/99, pp. 395-399, 1999.
30. **El-Kersh, A.M.** and Khalil, K. Y., “Influence of Transverse Curvature on the Prediction of Flow Behavior of an Annular Diffuser”, The 1 st Minia International Conference for Advanced Trends in Engineering, March 14-16, pp. 1-12, 1999.
31. **El-Kersh, A. M.** and Ali, W. Y., “Performance of Polymer Composites Journal Bearings - Effect of Thermal and Elastic Behaviour”, Internationale Fachzeitschrift fur Polymere werkstoffe, KGK, Kautschuk Gummi Kunststoffe, 54, jahrgang, Nr. 9/2001, pp. 468-473, 2001.
32. **El-Kersh, A. M.**, “Performance of Polyamide Journal Bearing Including Thermal Expansion Effects”, Internationale Fachzeitschrift fur polymere Werkstoffe, KGK 54, Jahrgang, Nr. 3/2001, pp. 92-96, 2001.
33. **El-Kersh, A. M.** and Ali, W. Y., “Effect of Expansion and Elastic Deformation on the Performance of Polyamide-Copper Journal Bearings”, Bulletin of the Faculty of Engineering, Assuit University, Vol. 29, No. 1, pp. 149-160, 2001.
34. **El-Kersh, A. M.**, “Performance of Elastically Deformed Polyamide Porous Journal Bearings”, Bulletin of the Faculty of Engineering, Assuit University, Vol. 29, No. 3 (1/2), pp. 1-8, 2001.
35. **El-Kersh, A. M.**, “The Influence of Longitudinal Grooves on the Performance of Two-Dimensional Diffuser”, Alexandria Engineering Journal, Vol. 40, No. 1, pp. 1-8, Faculty of Engineering, Alexandria University, Egypt, 2001.
36. **El-Kersh, A. M.**, “Characteristics of Turbulent Flow behind Detached Rib in an Adverse Pressure Gradient”, Alexandria Engineering Journal, Vol. 41, No. 4, pp. 673-682, Faculty of Engineering, Alexandria University, Egypt, 2002.
37. **El-Kersh, A. M.**, “Behaviour of Turbulent Wakes in an annular Diffuser”, The Second Minia International conference for Advanced Trends in Engineering, El-Minia University, pp. 1204-1215, 2002.
38. **El-Kersh, A. M.** and Kotb, N. A., “Experimental and Computational Study of Turbulent Flow of Annular-Circular Sudden Expansion” The Second Minia International conference for Advanced Trends in Engineering, El-Minia University, pp. 1226-1237, 2002.

39. **El-Kersh, A. M.**, Youssef, M. M. and Ali, W. Y. , “Selection of Proper Filtering Material for Air Filtration”, Proceedings of the Second World Conference on Technology Advances for Sustainable Development, Cairo, Egypt, March, 11 – 14, (2002).
40. **El-Kersh, A. M.**, **Ezzat**, F. H., Khashaba, M. I and Ali, W. Y., “ Investigation of the Lubricating Properties of Diesel Engine Used Oil”, International Conference on Development and Environment in Arab World, Assuit University, March 26-28, 2002.
41. **El-Kersh, A. M.**, “Experimental and Computational Turbulent Flow in a Square Duct with Attached and Detached Ribs”, JES, Assuit University, Vol. 30, No. 3, pp. 687-699, 2002.
42. **El-Kersh, A. M.**, “The Influence of a Thin Rib on the Turbulent Plane Wall Jets in a Slower Air Stream”, JES, Assuit University, Vol. 30, No. 3, pp. 717-730, 2002.
43. **El-Kersh, A. M.**, Youssef, M. M. and Ali, W. Y., “Wear Severity of Internal Combustion Engines”, 6th International Conference of the Egyptian Society of Tribology, EGTRIP6, Cairo University, Dec. 28-29, 2002, pp. 209-219.
44. Khashaba, M. I., **El-Kersh, A. M.** and Ali, W. Y., “Embedded Particle Effect on Lubricated Contact”, 6th International Conference of the Egyptian Society of Tribology, EGTRIP6, Cairo University, Dec. 28-29, 2002, pp. 279-289.
45. El-Sherbiny, M. G., **El-Kersh, A.M.** and Ali, W. Y., " Influence of Cavity Formation Behind Bearing Surface Asperity in Hydrodynamic Bearing", EGTRIP6 Journal, Journal of the Egyptian Society of Tribology, Vol. 1, No. 4, pp. 1-8, 2004.
46. Dohim, M.A., **El-Kersh, A.M.**, Kotb, N. A. and Ali, M. M., “Computational Flow in the Aluminum Reduction Cell due to Electromagnetic Forces”, JES, Assuit University, Vol. 23, No. 1, pp. 299-313, 2005.
47. Bassily Hanna, **El-Kersh, A.M.**, Kotb, N. A. and El-Gendy, M. , “Effect of Varying the Aspect Ratio on the Flow Behavior through Rectilinear Acceleration blade Cascade”, The Third Minia International Conference for Advanced Trends in Engineering, 3-5 April 2005, Minia university, Egypt.
48. Youssef, M.M., **El-Kersh, A. M.**, Ali, M. M. and Khashaba, M. I., " Detecting Bearing Failure By Examining Wear Particles", Accepted at Fourth Saudi Technical Conference & Exhibition (STCEX2006), Riyadh, Saudi Arabia, December 02 - 06, 2006.
49. Doheim, M. A., **El-Kersh, A. M.** and Ali, M. M., “Computational Modeling of Flow in Aluminium Reduction Cells Due to Gas Bubbles And Electromagnetic Forces”, Journal of Metallurgical and Materials Transactions B, Volume 38, Number 1, pp. 113-119, Springer Boston, February 2007.
50. Bassily Hanna , M. A., **EL-Kersh , A. M.**, Bassiouny Ramadan and Gomaa, M. R., “Flow Behavior in an Asymmetric Plane Diffuser With Fully Developed and Wake Velocity Profiles at Inlet”, Journal of Fluid Mechanics, 2007.
51. Doheim, M. A, **El-Kersh, A. M.**, Kotb, N. A., Ali, M. M. and Mahmoud, M. “Modeling and Measurement of Metal Pad Velocity in a 208 Ka End-to-End Prebake Cell”, The Minerals, Metals & Materials Society (TMS) , pp. 419-425, 2008.

52. Bassily Hanna , M. A., **EL-Kersh , A. M.**, Bassiouny Ramadan and Gomaa, M. R., "Air Flow Characteristics in an Asymmetric Plane Diffuser under Different Inlet Conditions", Bulletin of the Faculty of Engineering, Minia University, Vol. 27, No. 2, 2008.
53. Doheim, M. A., **EL-Kersh, A. M.** and Ali, M. M., "The Impact Of Channel Width on the Aluminium Reduction Cell Current Efficiency", The Minerals, Metals & Materials Society (TMS), pp. 545-550, 2009.
54. Alosaimy, A. S., Hamed, A. M., **EL-Kersh, A. M.** and Aly, A. A., "Application of Solar Energy For Air Conditioning In Humid Zones", Project No: 1/431/924, Taif University, KSA, 2010.
55. Faizan, Mohammad, **Elkersh, A. M.** and Alosaimy, Ali, "Study of Turbulent Convective Heat Transfer in a Rectangular Duct with Triangular ribs on the Heated Surface", Project No. 925/431/1, Taif University, KSA, 2010.
56. Alosaimy, Ali and **EL-Kersh, A.M.**, "Effect of Detached Ribs on Turbulent Flow Structure in a Rectangular Duct with Adverse Pressure Gradient", JPJ. Heat Mass Transfer, Vol. 5, No. 1, pp. 59-72, ISSN 0973-5763, 2011.
57. Faizan, Mohammad, Alosaimy, Ali and **EL-Kersh, A. M.**, "Performance of Conical Diffusers Equipped with Center Bodies at Inlet", Minia Journal of Engineering and Technology, (MJET), Vol. 32, No 1, pp. 174-187, January 2013.
58. Darwish, , A. M. and **EL-Kersh, A. M.**, " Turbulent Flow and Heat Transfer in a Rectangular Duct with Attached and Detached Trapezoidal Ribs", Minia Journal of Engineering and Technology, (MJET), Vol. 33, No 2, pp. 217-233, January 2014.
59. Harby,K, Nasr, Youssef G., Nour El-deen, El-Sadek H. and **EL-Kersh, A. M.**, " Hydrocarbons as alternatives to the environmental harmful refrigerants", Third International Conference on Energy Engineering (ICEE-2015), December 28-30, 2015, Aswan-Egypt.
60. Darwish, A. M., **EL-Kersh, A. M.**, El-Sheikh, M. N. and El-Moghazy, I. M., "A Review on Nanofluid Impingement Jet Heat Transfer", Nanotechnology and Allied Sciences, Vol 1, No. 1, pp. 1-15, 2017.
61. Nasr, Youssef G., Nour El-deen, El-Sadek H., Harby, K. and **EL-Kersh, A. M.**, Comparative performance of refrigerator by using constant and variable speed compressors with HC and HFC refrigerant, Mansoura Engineering Journal (MEJ), 2018.