

# **Curriculum Vitae**

**Dr.Eng.Ahmed Kadhim Hussein**

**Assistant Professor**

**Department of Mechanical Engineering  
College of Engineering  
University of Babylon  
Republic of Iraq**

# Curriculum Vitae

Dr.Eng.Ahmed Kadhim Hussein  
Assistant Professor



## Personal and Contact Details

**Date of Birth:** 19 May , 1974  
**Place of Birth:** Babylon City, Hilla, Republic of Iraq  
**Nationality:** Iraqi  
**Religion :** Muslim  
**Marital Status:** Married With One Children  
**Address:** Department of Mechanical Engineering,  
College of Engineering,  
University of Babylon,  
Babylon City, Hilla  
Republic of Iraq  
**Phone:** 00964 7813769317  
**University ID Number :** 1000 000 789  
**My New e-mail:** [ahmedkadhim7474@gmail.com](mailto:ahmedkadhim7474@gmail.com)

## Academic Qualifications

**2006 Ph.D. Mechanical Engineering :** **University of Al-Mustansiriya** , Baghdad, Iraq .  
**Ph.D. Thesis Title :** **Numerical Simulation of Flying Supersonic Body.**

**1999 M.Sc. Mechanical Engineering :** **University of Babylon** , Babylon, Iraq .  
**M.Sc. Thesis Title :** **Thermodynamic Analysis of Non - Equilibrium Conduction Heat Transfer.**

**1996 B.Sc. Mechanical Engineering :** **University of Babylon** , Babylon, Iraq .

## Experience in Higher Education.

(2012-present) : Assistant Professor , Babylon University.  
(2006-2012) : Lecturer , Babylon University.  
(2008-2013) : External Lecturer , Al -Qadisiya University.  
(2002 – 2006) : Assistant Lecturer , Babylon University.  
(2000 – 2002) : External Lecturer , Babylon University.  
(2000 – 2003) : External Lecturer , Najaf Technical College.

### Teaching Experience ( Undergraduate Study ).

<u>Subject</u>	<u>Place</u>	<u>Period</u>
1- Machine Drawing	Babylon University – Department of Mechanical Engineering.	2000 – 2001
		2002 – 2005
		2006 – 2010
2- Engineering Mechanics	Najaf Technical College – Department of Automobile Engineering.	2000 – 2003
3- Principles of Mechanical Eng.	Babylon University – Department of Electrical Engineering.	2002 – 2003
4- Air conditioning and Refrigeration	Babylon University – Department of Mechanical Engineering.	2004 – 2005
5- Mathematics I	Babylon University – Department of Mechanical Engineering	2006 – 2007
		2010 – 2014
6- Heat Transfer	Al-Qadisiya University – Department of Mechanical Engineering	2008 – 2009
7- Fluid II	Al-Qadisiya University – Department of Mechanical Engineering	2009 – 2013

### Teaching Experience ( Postgraduate Study ).

<u>Subject</u>	<u>Place</u>	<u>Period</u>
1- Advanced Convection Heat Transfer	Babylon University – Department of Mechanical Engineering.	2008 – 2009
2- Boundary Layer Theory	Babylon University – Department of Mechanical Engineering.	2013 – 2014

### Research Areas of Interest.

- 1-Supersonic Aerodynamics.
- 2-Non-Equilibrium Conduction Heat transfer.
- 3-Convection Heat Transfer.
- 4-Extended Irreversible Thermodynamics.
- 5-CFD.
- 6-Renewable Energy.
- 7-Nano Fluid Technology.

### Administrative Experiences.

- 1-Director of Mechanical Engineering Department Laboratories.
- 2-Member of Clean Energy Center Opening Committee.

- 3- Member of Clean Energy Studying Committee.
- 4- Member of Students Examinations Committee.
- 5- Member of International Bank Grant Running Committee.
- 6- Chairman and Member of Students Projects and Researches Committee.
- 7- Member of Mechanical Engineering Department Council.
- 8- Member of Laboratories Equipments Maintenance Committee.
- 9- Chairman and Member of Students Summer Training Committee.
- 10- Chairman of Data Base Committee.

### Administrative Experiences (Out Side Babylon University ).

- 1- Member of Scientific Committee in Al -Qadisiya University - Department of Mechanical Engineering.

### Other Experiences ( Inside Iraq ).

- 1- Member of Consultative Board of Al -Qadisiya Journal for Engineering Sciences.
- 2- Reviewed many papers for many journals such as :-
  - 1- Scientific Referee of The Iraqi Journal for Mechanical and Materials Engineering.
  - 2- Scientific Referee of The Scientific Kerbala Journal.
  - 3- Scientific Referee of The Babylon University Journal.
  - 4- Scientific Referee of Al -Qadisiya Journal for Engineering Sciences.
  - 5- Scientific Referee of Engineering Kufa Journal.
  - 6- Scientific Referee of Al – Nahrain University – College of Engineering Journal.

### Other Experiences ( Outside Iraq ).

- 1- **Section Editor** of Journal of Naval Architecture and Marine Engineering - **Bangladesh.**
- 2- **Member of Editorial Board** of Fundamental Journal of Thermal Science and Engineering - **India.**
- 3- **Member of Editorial Board** of Fundamental Journal of Mathematical Physics - **India.**
- 4- **Member of Editorial Board** of Fundamental Journal of Modern Physics - **India.**
- 5- **Member of Editorial Board** of Mathematica Aeterna - **Bulgaria.**
- 6- **Member of Associate Editors** of International Journal of Energy and Technology - **Italy.**
- 7- **Editor** of International Journal of Advanced Renewable Energy Research – **United States of America.**
- 8- **Member** of Scientific Committee and Editorial Review Board on Engineering and Physical Sciences - World Academy of Science, Engineering and Technology (WASET)
- 9- **Member of Editorial Board** of Thermal Energy and Power Engineering (TEPE) – **Hong Kong.**
- 10- **Member of Editorial Board** of American Journal of Advanced Scientific Research (AJASR) – **Germany.**
- 11- **Member of Editorial Advisory Board** of International Journal of Heat and Technology – **Italy.**

- 12- **Member of Editorial Board** of Researches and Applications in Mechanical Engineering (RAME) – **United States of America.**
- 13- **Member of Editorial Board** of ARPN Journal of Science and Technology – **Pakistan .**
- 14- **Editor** of Prudence Journal of Engineering and Technology Research (PJETR) – **Nigeria.**
- 15- **Member of Editorial Board** of African Journal of Engineering Research (AJER) – **Nigeria.**
- 16- **Member of Editorial Board** of Computer Communication and Collaboration(CCC) – **Canada.**
- 17- **Member of Editorial Board** of Journal of Basic and Applied Scientific Research (JBASR) – **United States of America.**
- 18- **Member of Editorial Board** of Journal of Civil Mechanical Engineering (JCME) –
- 19- **Member of Editorial Board** of World Journal of Advanced Technology and Engineering Sciences (WJATES) – **United States of America.**
- 20- **Member of Editorial Board** of Canadian Research Publication – **Canada.**
- 21- **Member of Editorial Board** of Scientia Research Library (SRL) – **India.**
- 22- **Member of Editorial Board** of World Journal of Civil , Mechanical and Electrical Engineering (WJCMEE) – **United States of America.**

Reviewed many papers for many international journals such as :-

- 1-Scientific Referee of Journal of Naval Architecture and Marine Engineering - **Bangladesh.**
- 2-Scientific Referee of Engineering Applications of Computational Fluid Mechanics - **Hong Kong.**
- 3-Scientific Referee of International Journal of Heat and Mass Transfer - **United States of America.**
- 4-Scientific Referee of Journal of Engineering Science and Technology (JESTEC) - **Malaysia.**
- 5- Scientific Referee of International Journal of Mechanical and Materials Engineering - **Malaysia.**
- 6- Scientific Referee of Numerical Heat Transfer - **United States of America.**
- 7- Scientific Referee of Journal of Electronics Cooling and Thermal Control - **United States of America.**
- 8- Scientific Referee of Computers and Mathematics with Applications - **United States of America.**
- 9- Scientific Referee of Journal of Encapsulation and Adsorption Sciences (JEAS) - **United States of America.**
- 10 - Scientific Referee of AMSE Journals - **France.**
- 11- Scientific Referee of International Journal of Modeling and Optimization (IJMO) - **Singapore.**
- 12- Scientific Referee of Chemical Engineering Communications - **United States of America.**
- 13- Scientific Referee of American Journal of Analytical Chemistry (AJAC) - **United States of America.**
- 14- Scientific Referee of International Journal of Information Engineering (IJIE) - **United States of America.**
- 15- Scientific Referee of Frontiers in Heat and Mass Transfer (FHMT) - **United States**

- of America.**
- 16- Scientific Referee of Scientific Research and Essays (SRE) - **Nigeria.**
  - 17- Scientific Referee of Advanced Shipping and Ocean Engineering (ASOE) - **Hong Kong.**
  - 18- Scientific Referee of International Journal of Computer Science and Artificial Intelligence (IJCSAI) - **Hong Kong.**
  - 19- Scientific Referee of Theory and Applications of Mathematics and Computer Science (TAMCS) - **Romania.**
  - 20- Scientific Referee of Online International Journal of Engineering and Technology Research (OIJETR) - **Nigeria.**
  - 21- Scientific Referee of Thermal Science - **Serbia.**
  - 22- Scientific Referee of Journal of Thermophysics and Heat Transfer - **United States of America.**
  - 23- Scientific Referee of Nuclear Engineering and Design - **United States of America.**
  - 24- Scientific Referee of International Journal of Thermal Sciences - **United States of America.**
  - 25- Scientific Referee of Journal of Energy , Heat and Mass Transfer - **India.**
  - 26- Scientific Referee of Journal of Basic and Applied Scientific Research (JBASR) - **United States of America.**
  - 27- Scientific Referee of Computer Communication and Collaboration (CCC) - **Canada.**
  - 28- Scientific Referee of Journal of Scientific Research - **Bangladesh.**
  - 29- Scientific Referee of Mathematical Problems in Engineering - **Egypt.**
  - 30- Scientific Referee of Advances in Mechanical Engineering - **Egypt.**
  - 31- Scientific Referee of Researches and Applications in Mechanical Engineering (RAME) - **United States of America.**
  - 32- Scientific Referee of Advances in Chemical Engineering and Science (ACES) - **United States of America.**
  - 33- Scientific Referee of Advanced Journal of Physical Sciences (AJPS) –
  - 34- Scientific Referee of International Journal of Mathematical Modeling and Physical Sciences (IJMMPS) - **India.**
  - 35- Scientific Referee of Heat Transfer - Asian Research - **United States of America.**
  - 36- Scientific Referee of Journal of Thermal Engineering - **Turkey.**
  - 37- Scientific Referee of Energy Conversion and Management - **United States of America.**
  - 38- Scientific Referee of Journal of Mechanical Engineering and Technology (JMET) - **United States of America.**
  - 39- Scientific Referee of Ain Shams Engineering Journal - **Egypt.**
  - 40- Scientific Referee of Special Topics and Reviews in Porous Media - **United States of America.**

Also , I reviewed the following papers for many international journals such as :-

- 1-Scientific Referee of the paper entitled **MHD free convection flow along a vertical flat plate with thermal conductivity and viscosity depending on temperature** By **Rehena Nasrin** and **M. A. Alim** ( Dept. of Mathematics, Bangladesh University of Engineering and Technology- Dhaka-1000, Bangladesh ) / **Journal of Naval Architecture and Marine Engineering** .

- 2-Scientific Referee of the paper entitled **Radiation effects on MHD convective mass transfer flow past an accelerated infinite vertical porous plate embedded in a porous medium** By **P. Bala Anki Reddy** and **N. Bhaskar Reddy** ( Department of Mathematics, Sri Venkateswara University, Tirupati - 517502, A.P., India) / **Journal of Naval Architecture and Marine Engineering** .
- 3-Scientific Referee of the paper entitled **Natural convection flow in a square cavity with internal heat generation and a flush mounted heater on a side wall** By **M. A. H. Mamun** , **M. M. Rahman** , **M. M. Billah** , **R. Saidur** and **S. Nagata** / **Journal of Naval Architecture and Marine Engineering**.
- 4 -Scientific Referee of the paper entitled **Combined heat and mass transfer effects on MHD oscillatory flow in a channel filled with porous medium** / **Journal of Naval Architecture and Marine Engineering**.
- 5- Scientific Referee of the paper entitled **Finite element analysis of heat transfer of free convection flow of MHD micropolar and viscous fluids in a vertical channel with dissipative effects** By **B. SURESH BABU** , **G. SRINIVAS** and **B. R. K. Reddy** ( Department of Mathematics, VIMTW, Hyderabad ,India) / **Journal of Naval Architecture and Marine Engineering**.
- 6- Scientific Referee of the paper entitled **Joule heating effect on magneto-hydrodynamic natural convection flow along a vertical wavy surface** By **N. Parveen** and **M. A. Alim** ( Department of Mathematics, Bangladesh University of Engineering and Technology, Dakha-1000, Bangladesh ) / **Journal of Naval Architecture and Marine Engineering**.
- 7- Scientific Referee of the paper entitled **Finite element analysis of effects of magnetic field in an open channel having a circular heater** By **M. M. Billah** , **M.M. Rahman** and **M. S. Uddin** ( Department of Arts and Sciences , Ahsanullah University of Science and Technology, Dhaka-1208 , Bangladesh) / **Journal of Naval Architecture and Marine Engineering**.
- 8- Scientific Referee of the paper entitled **Similarity solution for free convection between two parallel porous walls with MHD at different temperatures** By **K.GANGADHAR** and **P.K.KAMESWARAN** ( Department of Mathematics , ANU Ongole Campus Ongole - 523001 , Andhra Pradesh , India) / **Journal of Naval Architecture and Marine Engineering**.
- 9- Scientific Referee of the paper entitled **Effects of viscous dissipation on natural convection flow along a sphere with radiation and heat generation** By **Salina Aktar** , **Mahmuda Binte Mostafa Ruma** and **M.A.Alim** ( Department of Natural Science , Stamford University , Bangladesh ) / **Journal of Naval Architecture and Marine Engineering**.
- 10- Scientific Referee of the paper entitled **Unsteady MHD chemically reacting fluid through a porous medium bounded by a non-isothermal impulsively-started vertical plate : a numerical technique** By **Sahin Ahmed** and **Karabi Kalita** ( Heat Transfer and Fluid Mechanics Research , Department of Mathematics , Goalpara College , Goalpara 783101, Assam , India ) / **Journal of Naval Architecture and Marine**

## Engineering.

- 11 - Scientific Referee of the paper entitled **Comparison between two methods for enhancing heat transfer in separated flows over backward facing step – Second law analysis** By **S. A. Gandjalikhan** and **Nassab, A. Bahrami** ( Mechanical Engineering Department , Shahid Bahonar University , Kerman, Iran / **Engineering Applications of Computational Fluid Mechanics.**
- 12-Scientific Referee of the paper entitled **Transient combined heat and mass transfer by natural convection from a semi-infinite plate submitted to a magnetic field** By **J. Zueco** , **P. Eguia** , **J. Collazo** and **L. Ocho** ( Departamento de Ingenieria Térmica y de Fluidos, UPCT Campus Muralla del Mar, Cartagena 30202, Espana (Spain) / **Engineering Applications of Computational Fluid Mechanics.**
- 13- Scientific Referee of the paper entitled **Three-dimensional MHD simulations of an electromagnetic flow meter** By **Bo Lu** , **Liangwang Xu** and **Xiaozhang Zhang** ( Institute of Plasma Physics , Chinese Academy of Sciences , Hefei , Anhui 230031 , China ) / **Engineering Applications of Computational Fluid Mechanics.**
- 14- Scientific Referee of the paper entitled **Numerical analysis of mixed convection through an internally finned tube** By **Sachindra Kumar Rout** and **Dipti Prasad Mishra** ( Institute of Technical Education and Research , S'O'A University , Jagamara , Bhubaneswar -751030, Odisha , India ) / **Engineering Applications of Computational Fluid Mechanics.**
- 15- Scientific Referee of the paper entitled **Magnetohydrodynamic developing flows entering the region of a flow channel insert in a duct** By **Chang Nyung Kim** ( Department of Mechanical Engineering , College of Engineering , Kyung Hee University , Yong-in, Kyunggi-do , 446-701, Korea) / **Engineering Applications of Computational Fluid Mechanics.**
- 15- Scientific Referee of the paper entitled **Characteristics of heat dissipation from a block heat source module in a three-dimensional cabinet to ambient natural convective air stream** By **Y. L. Tsay** and **J. C.Cheng** / **International Journal of Heat and Mass Transfer.**
- 16- Scientific Referee of the paper entitled **Natural convection in a square enclosure with two horizontal cylinders** By **H. S. Yoon** , **J. H. Jung** , **Y. G. Park** and **H. H. Chun** ( Global Core Research Center for Ships and Offshore Plants, Pusan National University, Jang Jeon 2-Dong , Geum Jeong Gu , Busan 609 -735, Korea ) / **International Journal of Heat and Mass Transfer.**
- 17- Scientific Referee of the paper entitled **Enhancement of natural convection heat transfer in a square enclosure by utilizing nanofluids and rotating cylinder** By **R. Roslan** , **H. Saleh** and **I. Hashim** ( Faculty of Science , Technology and Human Development , Universiti Tun Hussein Onn Malaysia , 86400 Parit Raja , Batu Pahat , Johor , Malaysia ) / **International Journal of Heat and Mass Transfer.**
- 18- Scientific Referee of the paper entitled **Research on the convergence method of oscillation numerical simulation : a case study for fluid flow in Joule-heated cavity**



By **X.H.Zhang** , **Y.Y.Wen** and **X.Cheng** ( Department of Thermal Energy Engineering , School of Physics Science and Technology , School of Energy , Soochow University , 215006 , Suzhou , China ) / **International Journal of Heat and Mass Transfer**.

- 18- Scientific Referee of the paper entitled **Investigation on the wing – ground collision** / **Journal of Engineering Science and Technology**.
- 19- Scientific Referee of the paper entitled **Flow behind bluff bodies in side-by-side arrangement** / **Journal of Engineering Science and Technology**.
- 20 - Scientific Referee of the paper entitled **The effect of solar radiation on automobile environment through natural convection and mixed convection** / **Journal of Engineering Science and Technology**.
- 21 - Scientific Referee of the paper entitled **A numerical study of shock reflection phenomena in shock/turbulence interaction** / **Journal of Engineering Science and Technology**.
- 22 - Scientific Referee of the paper entitled **Numerical investigation for the heat transfer enhancement in helical cone coils over ordinary helical coils** / **Journal of Engineering Science and Technology**.
- 23 - Scientific Referee of the paper entitled **Forced convection greenhouse papad drying : an experimental study** / **Journal of Engineering Science and Technology**.
- 24 - Scientific Referee of the paper entitled **Design and flow velocity simulation of diffuser augmented wind turbine using CFD** / **Journal of Engineering Science and Technology**.
- 25- Scientific Referee of the paper entitled **Estimation of aerodynamic parameters of urban building arrays using wind tunnel measurements** / **Journal of Engineering Science and Technology**.
- 26- Scientific Referee of the paper entitled **Experimental and numerical study of the swirling flow in conical diffusers** / **Journal of Engineering Science and Technology**.
- 26- Scientific Referee of the paper entitled **Numerical investigation of the effects of flow rate and fin geometry on laminar fluid flow and heat transfer in a wavy plate fin passage** By **M. Piradla** and **S.M. Pesteia** ( Mechanical Engineering Department , Faculty of Engineering , Urmia University, Urmia , Iran) / **International Journal of Mechanical and Materials Engineering**.
- 27- Scientific Referee of the paper entitled **Thermo-visual investigation of a two-phase loop thermosyphon** By **Aloke K. Mozumder** and **M. Mustafa Kamal** (Department of Mechanical Engineering, Bangladesh University of Engineering and Technology, Dhaka , Bangladesh ) / **International Journal of Mechanical and Materials Engineering**.
- 28 - Scientific Referee of the paper entitled **Effect of induced magnetic field on peristaltic transport of a Carreau fluid in an inclined channel filled with porous material** By **R. Hemadri Reddy** , **A. Kavitha** and **S.Sreenadh** ( School of Advanced Sciences,

VIT University, Vellore, TamilNadu-632 014, India) / **International Journal of Mechanical and Materials Engineering.**

- 29 - Scientific Referee of the paper entitled **Joule heating effect on MHD combined convection in a lid driven chamber with a heat conducting cylinder** By **Rehena Nasrin** ( Department of Mathematics , Bangladesh University of Engineering and Technology, Dhaka-1000, Bangladesh ) / **International Journal of Mechanical and Materials Engineering.**
- 30- Scientific Referee of the paper entitled **Study on the jet nanofluids impingement system for cooling computer processing unit** By **Paisarn Naphon** (Department of Mechanical Engineering , Faculty of Engineering , Srinakharinwirot University, 63 Rangsit-Nakhornnayok Rd., Ongkharak, Nakhorn-Nayok, 26120, Thailand) / **Journal of Electronics Cooling and Thermal Control.**
- 31- Scientific Referee of the paper entitled **Solution of Riccati equation using optimal homotopy asymptotic method** By **M.Naeem , S.Islam, Javed Ali** and **M. Idrees** ( Islamia College Peshawar (Public Sector University) , Khyber - Pakhtunkhwa, Pakistan) / **Computers and Mathematics with Applications.**
- 32- Scientific Referee of the paper entitled **Cadmium removal from aqueous solution by a Tunisian smectitic natural and activated clay: Thermodynamic study** By **Khalfa Leila** ( Applied Thermodynamics and Environnement Unit Research , ENIGabes, 6079 Zrig Gabes, Tunisia ) / **Journal of Encapsulation and Adsorption Sciences.**
- 33- Scientific Referee of the paper entitled **Nano-microencapsulation and controlled-release of linoleic acid in biopolymer matrices: effects of the physical state, water activity, and quercetin on oxidative stability** By **Gilles K. Kouassi , Vinod Teriveedhi , Christopher L. Milby , Tarab Ahmad , Mark Boley, Netkal M. Gowda** and **Ronald Terry** ( Department of Chemistry, Department of Physics , Western Illinois University, Macomb , IL, USA) / **Journal of Encapsulation and Adsorption Sciences.**
- 34- Scientific Referee of the paper entitled **Effect of pixellization on efficiency and stability of MEH-PPV based polymer light emitting diodes** By **Ranbir Singh** and **Monica Katiyar** ( Department of Materials and Metallurgical Engineering , Indian Institute of Technology, Kanpur 208016 , India ) / **Journal of Encapsulation and Adsorption Sciences.**
- 37- Scientific Referee of the paper entitled **Adsorption of phenol and chlorophenol in aqueous solution on a commercial activated carbon in batch sorption systems** By **O.A. Ekpete , A.I. Spiff , Michael Horsfall Jnr** and **P. Adowei** ( Department of Chemistry , Ignatius Ajuru University of Education , Port-Harcourt , Nigeria ) / **Journal of Encapsulation and Adsorption Sciences.**
- 38- Scientific Referee of the paper entitled **Three-dimensional MHD flow between a rotating and a stationary highly permeable disk** By **Dileep Singh Chauhan** and **Reema Jain** ( Department of Mathematics, University of Rajasthan , Jaipur-302004, , India) / **AMSE Journals.**
- 39- Scientific Referee of the paper entitled **Fuzzy logic to model the free convection heat**

**transfer from horizontal isothermal cylinders arranged in vertical and inclined arrays** / **International Journal of Modeling and Optimization.**

- 40- Scientific Referee of the paper entitled **Design and development of a smart vehicle parking system** / **International Journal of Modeling and Optimization.**
- 41- Scientific Referee of the paper entitled **Fluidization effect on removal and recovery of palladium (II) from wastewater by chelated ion exchange resin** By **S.V. Chaudhari** and **G.M. Deshmukh** ( Department of Petrochemical Engineering , Dr. Babasaheb Ambedkar Technological University , Lonere , Dist - Raigad 402103 , India ) / **Chemical Engineering Communications.**
- 42- Scientific Referee of the paper entitled **Prediction of semi-fluidization velocity of solid particles in gas-liquid-solid systems by nomograph** By **Pooja V. Shrivastava , A. B. Soni** and **H. Kumar** ( Department of Chemical Engineering , National Institute of Technology , Raipur , India ) / **Chemical Engineering Communications.**
- 43- Scientific Referee of the paper entitled **Sem and FTIR study of adsorption characteristics using xanthate (KAX) collectors on galena** By **Zohir Nedjar** and **Djamel Barkat** ( Laboratory of Chemical Molecular and Environnement , Sciences and Technology Faculty , Industrial Chemistry Department , Mouhamed Khider University , Biskra 07000 , Algeria ) / **American Journal of Analytical Chemistry.**
- 44- Scientific Referee of the paper entitled **Synthesis and characterization of  $KFeP_2O_7$  nanoparticles implanted in silica** By **Eduardo Ordóñez Regil , Enrique Ordóñez Regil Nidia García González** and **Samuel R. Barocio** (Instituto Nacional de Investigaciones Nucleares , Departamento de Química. Centro Nuclear de México, Ocoyoacac 52750 , México) / **American Journal of Analytical Chemistry.**
- 45- Scientific Referee of the paper entitled **Effect of gaseous environments on decomposition characteristics of expanded polystyrene** By **Guangdong Xu , Qiang Xu** and **Renming Pan** (School of Chemical Engineering , Nanjing University of Science and Technology, Nanjing , China) / **American Journal of Analytical Chemistry.**
- 46- Scientific Referee of the paper entitled **Physicochemical changes of two mineral based diesel engine oils after their usage** By **Sahar Peyman , Abolfazl Semnani , Ali Reza Zangeneh** and **Hamid Shakoori Langeroodi** ( Department of Chemistry , Shahreza Branch , Islamic Azad University, Shareza, Isfahan , Iran ) / **American Journal of Analytical Chemistry.**
- 47- Scientific Referee of the paper entitled **Laminar free and forced convection cooling of a semi porous open cavity** / **Scientific Research and Essays.**
- 48- Scientific Referee of the paper entitled **Welding research in shipbuilding – An ongoing requirement** By **N.A. McPherson** ( BAE Systems Maritime , Naval Ships , 1048 Govan Road , Glasgow , G514XP, Scotland , U. K. / **Advanced Shipping and Ocean Engineering.**

- 49- Scientific Referee of the paper entitled **Numerical solutions for a nanofluid past over a stretching circular cylinder with non-uniform heat source/sink** By **A. Rasekh** and **D.D.Ganji** ( Department of Mechanical Engineering , Shahrood University of Technology , Shahrood , Iran ) / **Frontiers in Heat and Mass Transfer**.
- 50- Scientific Referee of the paper entitled **Laminar mixed convection cooling of a heat source embedded on the left side of double lid-driven enclosures filled with Cu-water nanofluid** By **M.A. Mansour** and **Sameh E. Ahmed** ( Department of Mathematics , Assuit University, Faculty of Science, Assuit , Egypt / **Journal of Thermophysics and Heat Transfer**.
- 51- Scientific Referee of the paper entitled **Mixed convection of non-Newtonian fluids including magnetic field effect along a vertical wavy plate** By **Koroush Javaherdeh , Shoaib Khanmohammdi** and **Mehdi Moslemi** ( Department of Mechanical Engineering , Guilan University, Iran ) / **Journal of Thermophysics and Heat Transfer**.
- 52- Scientific Referee of the paper entitled **Natural convection of a nanofluid in an inclined partially open cavity : effects of different thermal cases** By **F. M. Hady , Sameh E. Ahmed , Hillal M. El-Shehabe** and **R. A. Mohamed** ( Mathematics Department , Faculty of Science , Assiut University, Assiut 71516, Egypt ) / **Journal of Thermophysics and Heat Transfer**.
- 52- Scientific Referee of the paper entitled **EFFECT OF MAGNETIC FIELD ON 3D DOUBLE DIFFUSIVE CONVECTION IN A CUBIC CAVITY FILLED WITH A BINARY MIXTURE** By **Chemseddine Maatki , Kolsi Lioua, Ghachem Kaouther** and **M. Naceur Borjini** (Unité de Métrologie en Mécanique des fluides et Thermique ENIM Monastir , 5030, Tunisie ) / **Thermal Science**.
- 53- Scientific Referee of the paper entitled **G-complexity, quantum computation and anticipatory processes** By **Mihai Nadin** and **Ashbel Smith** ( University of Texas at Dallas, U.S.A. ) / **Computer Communication and Collaboration**.
- 54- Scientific Referee of the paper entitled **Effect of thermal radiation and temperature dependent conductivity on MHD flows through channel with a sliding wall** By **Md. S. Alam** and **M.A.H. Khan** ( Department of Mathematics , Jagannath University, Dhaka - 1100 , Bangladesh ) / **Journal of Scientific Research**.
- 55- Scientific Referee of the paper entitled **MHD mixed convection in an inclined lid - driven cavity with opposing thermal buoyancy force : effect of non-uniform heating on both side walls** By **A. Mahdy** and **Sameh E. Ahmed** ( Mathematics Department , Faculty of Science, South Valley University ,Qena , Egypt ) / **Nuclear Engineering and Design**.
- 56- Scientific Referee of the paper entitled **Effects of mass flow rate in terms of pressure drop and heat transfer characteristics** / **Online International Journal of Engineering and Technology Research**.
- 57- Scientific Referee of the paper entitled **Natural convection in a lid driven square cavity with partial slip** By **Muneer A. Ismael , Ioan Pop** and **Ali Chamkha** (

Mechanical Engineering Department , Engineering College, University of Basrah , Basrah , Iraq ) / **International Journal of Thermal Sciences**.

- 58- Scientific Referee of the paper entitled **CFD analysis of heat transfer and fluid flow characteristics of impinging swirl jets for electronic cooling application** By **S.Mohamed Illyas , B.R. Ramesh Babu and V.Venkata Subba Rao** ( Department of Mechanical Engineering , University College of Engineering , JNTU Kakinada , India ) / **Journal of Energy , Heat and Mass Transfer**.
- 59- Scientific Referee of the paper entitled **Heat transfer augmentation in a nanofluid-filled lid-driven enclosure with heat source embedded on the bottom and variety of thermal boundary conditions** By **Sameh E. Ahmed and M.A. Mansour** ( Mathematics Department , Faculty of Sciences 83523 , South Valley University , Qena , Egypt ) / **Journal of Energy , Heat and Mass Transfer**.
- 60- Scientific Referee of the paper entitled **Hydromagnetic stagnation point flow towards a radially stretching convectively heated disk** By **O. D. Makinde and S. Shateyi** ( Institute for Advance Research in Mathematical Modelling and Computations , Cape Peninsula University of Technology , P. O. Box 1906 , Bellville 7535 , South Africa ) / **Mathematical Problems in Engineering**.
- 61- Scientific Referee of the paper entitled **Calculation analysis of pressure wave velocity in gas and drilling mud two-phase fluid in annulus during drilling operations** By **Yuanhua Lin , Xiangwei Kong and Yijie Qiu** ( State Key Laboratory of Oil and Gas Reservoir Geology and Exploitation , Southwest Petroleum University , Chengdu , Sichuan 610500 , China ) / **Mathematical Problems in Engineering**.
- 62- Scientific Referee of the paper entitled **Refrigerator coupling to a water-heater and heating floor to save energy and to reduce carbon emissions** By **Romdhane Ben Slama** ( University of Gabes , ISSAT Gabes , Rue Omar Ibn Khattab , 6029 Gabes , Tunisia ) / **Researches and Applications in Mechanical Engineering**.
- 63- Scientific Referee of the paper entitled **MHD natural convection flow of fluid with variable viscosity from a porous vertical plate** By **Amena Ferdousi , M. Mostafizur Rahman , Mohammad Salek Parvez and M. A. Alim** ( Faculty of Electronics and Electrical Engineering , Eastern University , Dhaka , Bangladesh ) / **Researches and Applications in Mechanical Engineering**.
- 64- Scientific Referee of the paper entitled **Quantification of ventilated façade effect due to convection in buildings : buoyancy and wind driven effect** By **Miguel Mora Pérez , Gonzalo López Patiño and P. Amparo López Jiménez** ( Departamento de Ingeniería Hidráulica y Medio Ambiente. Polytechnic , University of Valencia , Valencia , Spain ) / **Researches and Applications in Mechanical Engineering**.
- 65- Scientific Referee of the paper entitled **Bio-separation, detection and quantification of E. coli K12 from small volumes using functionalized filters integrated in microchannels** / **Researches and Applications in Mechanical Engineering**.

- 64- Scientific Referee of the paper entitled **Modeling asymmetric flow of viscoelastic fluid in symmetric planar sudden expansion geometry based on user-defined function in FLUENT CFD package** By **Zhi -Ying Zheng** , **Feng-Chen Li** and **Juan-Cheng Yang** ( School of Energy Science and Engineering , Harbin Institute of Technology , Harbin 150001, China ) / **Advances in Mechanical Engineering**.
- 65- Scientific Referee of the paper entitled **Mathematical and simulation modelling of moisture diffusion mechanism during plastic IC packages disassembly** By **Mou Peng** , **Xiang Dong** and **Duan Guanghong** ( Department of Mechanical Engineering , Tsinghua University , Beijing , China ) / **Advances in Mechanical Engineering**.
- 66- Scientific Referee of the paper entitled **Fully-developed circular-pipe flow of a non-Newtonian pseudoplastic fluid** By **Lun-Shin Yao** , **Md. Mamun Molla** and **Ghosh Moulic** ( School for Engineering of Matter , Transport and Energy , Arizona State University, Arizona , 85287, USA ) / **Theory and Applications of Mathematics and Computer Science**.
- 67- Scientific Referee of the paper entitled **Steady non-isothermal two-dimensional flow of Newtonian fluid in a stenosed channel** / **Theory and Applications of Mathematics and Computer Science**.
- 68- Scientific Referee of the paper entitled **Mathematical modeling in heavy traffic queuing systems : A survey** / **Advanced Journal of Physical Sciences**.
- 69- Scientific Referee of the paper entitled **Lattice Boltzmann simulation of natural convection in a differentially heated square enclosure containing heat generating low -Prandtl number fluid** By **B. Gera** and **R. K. Singh** ( Reactor Safety Division , Bhabha Atomic Research Centre , Trombay , Mumbai - 400 085, India ) / **Heat Transfer - Asian Research**.
- 70- Scientific Referee of the paper entitled **Lattice Boltzmann simulation of natural convection heat transfer of SWCNT-nanofluid in an open enclosure** / **Ain Shams Engineering Journal**.
- 71- Scientific Referee of the paper entitled **Combined conduction-convection-radiation heat transfer in saturated cellular porous media bounded by an iso-flux channel : HPM vs. numerical analysis** By **Maziar Dehghan** , **Yousef Rahmani** , **Davood Domiri Ganji** , **Seyfollah Saedodin** and **Mohammad Sadegh Valipour** ( Mechanical Engineering Department , Semnan University , 35196-45399 Semnan , Iran ) / **Energy Conversion and Management**.
- 72- Scientific Referee of the paper entitled **Thermal instability in a Brinkman porous medium saturated by nanofluid with no nanoparticle flux on boundaries** By **Ramesh Chand** and **G. C. Rana** ( Department of Mathematics , Government College Dhaliara , Himachal Pradesh , India ) / **Special Topics and Reviews in Porous Media**.

73- Scientific Referee of the paper entitled **Numerical 3-D heat flow simulations on double-pass solar collector with and without porous media** By **A.N. Korti** ( ETAP laboratory , University of Tlemcen , FT, Department of Mechanics , BP 230, 13000 Tlemcen , Algeria) / **Journal of Thermal Engineering**.

74- Scientific Referee of the paper entitled **Mathematical models and numerical solutions of liquid-solid and solid-liquid phase change** By **K. S. Surana , A. D. Joy , L. A. Quiros and J. N. Reddy** ( Mechanical Engineering , University of Kansas , Lawrence , Kansas , USA) / **Journal of Thermal Engineering**.

#### Examiner of M.Sc.Thesis.

Student Name	Thesis Title	University	Date
1- Adnan Khathan Ibraheem	Production and analysis of Bioethanol from dates syrup.	Babylon University	17 / 1 / 2013

#### Professional Memberships.

- 1- **Senior Member** of International Association of Computer Science and Information Technology (IACSIT) (Member NO. : 80339292) – **Singapore**.
- 2- **Individual Membership** of International Society for Engineering Education (IGIP) (MEMBER-ID : 10509 ) – **Austria**.
- 3- **Member** of International Society of Applied Sciences (ISAS) – **United States of America**.
- 4- **Member** of Asian Council of Science Editors (ACSE) – **United Arab Emirates**.
- 5- **Member** of Science and Engineering Institute (SCIEI) ( Membership No. : 20140211002 ) – **United States of America**.

#### Computer Skills.

Programming skills: Fortran 90, Quick Basic, Computational Fluid Dynamics (CFD) Programs

Operating systems: Auto Cad, Tecplot , Grapher , Surfer

Software experience: Fluent , CFX

#### Engineering Conferences ( Inside Iraq ).

- 1-Scientific Referee of Al -Qadisiya First Scientific Conference, Al -Qadisiya University - College of Engineering – 22-23 December 2008.
- 2-Scientific Referee of The First Scientific Engineering Conference, Babylon University - College of Engineering – 17-18 May 2009.
- 3- Reporter of Mechanical and Materials Engineering Researches ( Session **Three** ) of

- The Eleventh Scientific Conference, Babylon University – 29-30 April 2009.
- 4- Reporter of Mechanical Engineering Researches ( Session **One** ) of The First Scientific Engineering Conference, Babylon University-College of Engineering – 17-18 May 2009.
  - 5- Scientific Referee of Al -Qadisiya Second Scientific Conference, Al -Qadisiya University-College of Engineering – 19-20 October 2009.
  - 6- Scientific Researcher in The First Engineering Education Conference ( EEC 2012 ) , Kurdistan Region - University of Duhok , Duhok City , 17-19 April 2012.

### Engineering Conferences ( Out side Iraq ).

- 1- Scientific Researcher in 2010 International Conference on Mechanical and Electrical Technology ( ICMET 2010 ) – September 10 -12 , 2010 , **Singapore.**
- 2- Scientific Researcher in 6th International Advanced Technologies Symposium (IATS'11), 16-18 May, 2011 , Elazığ , **Turkey.**
- 3- Member of Technical Committee of 3rd International Conference on Mechanical and Electrical Technology (ICMET 2011 ) , August 26-27, 2011, Dalian , **China.**
- 4- Scientific Researcher in The Third Asian Symposium on Computational Heat Transfer and Fluid Flow , (ASCHT 2011) , 22-26 September , 2011, Kyoto University , Kyoto, **Japan.**
- 5- Member of Technical Committee of 2011 3rd International Conference on Computer Technology and Development (ICCTD 2011), November 25-27, 2011, Chengdu , **China.**
- 6- Scientific Researcher of 3rd (2011) CUTSE International Conference , 8-9 November , 2011, Curtin University, Miri , Sarawak, **Malaysia.**
- 7- Member of Technology Program Committee of 2012 International Conference on Biomedical Engineering and Biotechnology (ICBEB) , 28<sup>th</sup> - 30<sup>th</sup> May , 2012, Macau , **China.**
- 8- Member of Technology Program Committee of 2012 International Symposium on Chemistry and Pharmaceutical Science (CPS) , 28<sup>th</sup> - 30<sup>th</sup> May , 2012, Macau , **China.**
- 9- Member of Scientific Committee of 15<sup>th</sup> International Conference on Applied Mechanics and Mechanical Engineering (AMME-15) , 29-31 May , 2012, Military Technical College, Kobry El-Kobbah , Cairo , **Egypt.**
- 10- Scientific Researcher of 15<sup>th</sup> International Conference on Applied Mechanics and Mechanical Engineering (AMME-15) , 29-31 May , 2012, Military Technical College, Kobry El-Kobbah , Cairo , **Egypt.**
- 11- Member of Scientific Committee of Session No.17 (Mechanical Power Engineering V) in 15<sup>th</sup> International Conference on Applied Mechanics and Mechanical Engineering (AMME-15) , 29-31 May, 2012, Military Technical College, Kobry El-Kobbah , Cairo , **Egypt.**
- 12- Member of Technical Program Committee of 2nd International Conference on Mechanical Science and Engineering (ICMSE 2012) , July 20-22, 2012 , Beijing , **China.**
- 13- Member of Technical Program Committee of 3<sup>rd</sup> International Conference on Mechanical Science and Engineering (ICMSE 2013) , March 1-3, 2013 , Dorsett Kwun Tong , Hong Kong , **China.**
- 14- Scientific Researcher of International Conference on Mechanical Engineering and Manufacturing (ICMEM 2013) , June 20-21 , 2013, Nippon Hotel , Istanbul , **Turkey.**
- 15- Member of Technical Program Committee of 3rd International Conference on Computer Science and Logistics Engineering (ICCSLE 2013) , September 13-15, 2013 , Hong Kong , **China.**



- 16- Member of Technical Program Committee of The International Workshop on Cloud Computing and Information Security (CCIS 2013) , November 9-11, 2013 , Shanghai , **China**.
- 17- Member of Technical Program Committee of The 1st International Conference of Materials and Mechanical Science (ICMMS 2013) , December 13-15, 2013 , Sanya , Hainan , **China**.
- 18- Member of Technical Program Committee of The 3<sup>rd</sup> International Conference on Computational and Theoretical Nanoscience (ICCTN 2014) , January 2-4 , 2014 , Sanya , **China**.
- 19- Member of Technical Program Committee of 4<sup>th</sup> International Conference on Mechanical Science and Engineering (ICMSE 2014), January 2-4 , 2014 , Sanya , Hainan , **China**.
- 20- Member of Technical Program Committee of The 4th International Conference on Industrial Engineering and Operations Management (IEOM 2014) , January 7-9 , 2014 , Grand Hyatt Bali Hotel , Bali , **Indonesia**.
- 21- Member of Technical Program Committee of 2014 The International Conference on Mechanical Engineering and Design (MED2014) , August 20-22, 2014 , Kunming , Yunnan , **China**.
- 22- Member of Technical Program Committee of 3rd ScienceOne International Conference on Information Technology (ICIT 2015), January 21-23, 2015 , Dubai , **United Arab Emirates**.

Reviewed many papers for many international Conferences such as :-

- 1-Scientific Referee of International 2009 - AMSE Conference which held in **India** , in Trivandrum with the College of Engineering of Kerala ( 1-3 December 2009) .
- 2-Scientific Referee of The First TSME International Conference on Mechanical Engineering (TSME – ICoME ) , Sunee Grand Hotel , Ubonratchathani, **Thailand** , (October 20-22, 2010 ) .
- 3- Scientific Referee of International Conference on Marine Technology , BUET, Dhaka, **Bangladesh** (11-12 December 2010) .
- 4- Scientific Referee of 2011 3rd International Conference on Machine Learning and Computing , **Singapore** ( February 26-28, 2011 ) .
- 5-Scientific Referee of The Second TSME International Conference on Mechanical Engineering (TSME – ICoME ) , Sheraton Krabi Beach Resort , Krabi , **Thailand** , (October 19-21, 2011) .
- 6- Scientific Referee of 2011 3rd International Conference on Computer Technology and Development (ICCTD 2011) , November 25-27, 2011, Chengdu , **China**.
- 7- Scientific Referee of 15<sup>th</sup> International Conference on Applied Mechanics and Mechanical Engineering (AMME-15) , 29-31 May 2012, Military Technical College, Kobry Elkobbah , Cairo , **Egypt**.
- 8- Scientific Referee of 2012 2nd International Conference on Management , Manufacturing and Materials Engineering (ICMMM 2012) , September 21-23, 2012 , Beijing , **China**.
- 9- Scientific Referee of The 3rd TSME-International Conference on Mechanical Engineering (TSME- ICoME 2012) , Chiang Rai , **Thailand** , (October 2012).
- 10- Scientific Referee of The 4th International Conference on Computational Methods (ICCM 2012) , 25-28 November 2012, Gold Coast , **Australia**.
- 11- Scientific Referee of 4<sup>th</sup> International Conference on Mechanical Science and

Engineering (ICMSE 2014), January 2-4 , 2014 , Sanya , Hainan , **China**.

Also , I reviewed the following papers for many International Conferences such as :-

- 1-Scientific Referee of the paper entitled **Heat transfer in three dimensional MHD fluid flow over a highly porous layer** By Dr.**Dileep Singh Chauhan** ( Dept. of Mathematics, University of Rajasthan, Jaipur-302004, India ) and Dr.**Reema Jain** ( Dept. of Mathematics, S.K.I.T., Jaipur-302025, India ) / International 2009 - AMSE Conference which held in India , in Trivandrum with the College of Engineering of Kerala ( 1-3 December 2009) .
- 2-Scientific Referee of the paper entitled **Thermal behavior in a solar air heater channel with ribs and rectangular winglets** By **Teerapat Chompookham , Bumroong Puangkird1, Smith Eiamsa-ard and Pongjet Promvonge** ( Department of Mechanical Engineering , Faculty of Engineering , King Mongkut's Institute of Technology Ladkrabang , Bangkok 10520, Thailand ) / The First TSME International Conference on Mechanical Engineering (TSME – ICoME ) , Sunee Grand Hotel , Ubonratchathani, Thailand (October 20-22, 2010).
- 3-Scientific Referee of the paper entitled **Heat Transfer and friction behavior in a channel fitted with triangular and rectangular V-shaped ribs** By **Chitakorn Khanoknaiyakarn , Phudit Chaidilokpattanakul and Pongjet Promvonge** ( Department of Mechanical Engineering , Faculty of Engineering , King Mongkut's Institute of Technology Ladkrabang, Bangkok 10520 , Thailand ) / The First TSME International Conference on Mechanical Engineering (TSME – ICoME ) , Sunee Grand Hotel , Ubonratchathani, Thailand (October 20-22, 2010) .
- 4-Scientific Referee of the paper entitled **An experimental study of two-phase looped thermosyphon** By **A. K. Azad , S. K. Sarkar , C. M. Feroz and M. M. Alam** ( Department of Mechanical Engineering , Bangladesh University of Engineering and Technology , BUET, Dhaka-1000, Bangladesh / Proceedings of MARTEC 2010 The International Conference on Marine Technology , BUET, Dhaka, Bangladesh (11-12 December 2010) ) .
- 5-Scientific Referee of the paper entitled **Effects of temperature dependent thermal conductivity and viscous dissipation on conjugate free convection flow along a vertical flat plate** By **ATM. M. Rahman, NHM. A. Azim, M. M. Rahman and M. K. Chowdhury** ( Department of Computer Science and Engineering, Dhaka International University, Dhaka-1205, Bangladesh / Proceedings of MARTEC 2010 The International Conference on Marine Technology , BUET, Dhaka, Bangladesh (11-12 December 2010) ) .
- 6-Scientific Referee of the paper entitled **New insights to database security : An effective and integrated approach to applying access control mechanisms and cryptographic concepts in Microsoft access environments** By **Auday Jamal Fawzi and Marwan Omar** (Faculty of Computer & IT , Nawroz University, Duhok, Iraq ), 2011 3rd International Conference on Computer Technology and Development (ICCTD 2011), November 25-27, 2011, Chengdu , China.
- 7-Scientific Referee of the paper entitled **Effect of axial gap on the aerodynamics 1 and 1.5 stage turbines** By **Subbarao Rayapati and M.Govardhan** ( Department of Mechanical Engineering , IIT Madras, Chennai , India ), 15<sup>th</sup> International Conference on Applied Mechanics and Mechanical Engineering (AMME-15) , 29-31 May 2012 , Military Technical College, Kobry Elkobbah , Cairo , Egypt.
- 8-Scientific Referee of the paper entitled **CFD analysis of a light aircraft wing** By **Eimad E.Elhadi , Mahdi M. Abdulla and Omer A. Elsayed** ( Department of

Aeronautical Engineering , Karary University, Omdurman , Sudan ), 15<sup>th</sup> International Conference on Applied Mechanics and Mechanical Engineering (AMME-15) , 29-31 May 2012 , Military Technical College, Kobry Elkobbah , Cairo , Egypt.

- 9- Scientific Referee of the paper entitled **Characteristics of constant value on the specific pressure drop in dilute phase pneumatic conveying for different plastic particles** , The 3rd TSME-International Conference on Mechanical Engineering (TSME- ICoME 2012) , Chiang Rai , **Thailand** , (October 2012).
- 10- Scientific Referee of the paper entitled **Thermal performance of the glass windows with a venetian blind** , The 3rd TSME-International Conference on Mechanical Engineering (TSME- ICoME 2012) , Chiang Rai , **Thailand** , (October 2012).
- 11- Scientific Referee of the paper entitled **Stator cooling analysis of large turbo generators** By **H. Ansari** and **M. Mohammadi** ( Mapna Generator Engineering and Manufacturing Co. (Pars) , Iran ) , The 4th International Conference on Computational Methods (ICCM 2012) , 25-28 November 2012, Gold Coast , Australia.
- 12- Scientific Referee of the paper entitled **Using advanced traits of passengers to facilitate route-choice decision-making** By **Wenbo Ma** and **Prasad Yarlagadda** ( School of Chemistry , Physics and Mechanical Engineering , Queensland University of Technology , Brisbane , Queensland , Australia), The 4th International Conference on Computational Methods (ICCM 2012) , 25-28 November 2012 , Gold Coast , Australia.

### International Invitations.

- 1-Invitation Letter from Kuwait Institute for Scientific Research (KISR) – **Kuwait**.
- 2-Invitation Letter from International Conference on Recent Advances in Fluid Mechanics - (23-24, DEC, 2010) – **India**.
- 3-Invitation Letter from World Congress Against Sex Exploitation, Human Trafficking and Forced Labour - (16-25 , October , 2012) – **U.S.A. & Spain**.
- 4-Invitation Letter from The First Joint Conference (KISR, MEW & KEMCO) - Energy Efficiency and Renewable Energy Collaboration Program -(11-12, March , 2013) – Shuwaikh – **Kuwait**.
- 5-Invitation Letter (Keynote Speaker) from The First International Conference in Emerging Trends in Science, Technology and Management ( ICETSTM ) - ( 21-22 , April , 2013) – **Singapore**.
- 6-Invitation Letter from 11th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM) - (21-27, September, 2013) – Rodos Palace Hotel , Rhodes – **Greece**.
- 7-Invitation Letter (Keynote Speaker) from 2nd International Conference on Mathematical , Computational and Statistical Sciences (MCSS '14) - (May 15-17 , 2014) , Gdansk – **Poland**.
- 8-Invitation Letter from First Asian Council of Science Editors (ACSE) Annual Meeting - (14-15, August , 2014) – Dubai , **United Arab Emirates**.

### Local Certificates.

1- Certificate from The First Engineering Education Conference ( EEC 2012 ) , Kurdistan Region - University of Duhok , Duhok City , 17-19 April 2012.

### International Certificates.

1- Certificate from the 1st TSME International Conference on Mechanical Engineering - **Thailand.**

2- Certificate from the 2010 International Conference on Mechanical and Electrical Technology ( ICMET 2010 ) – **Singapore.**

3- Senior Member Certificate from International Association of Computer Science and Information Technology (IACSIT) – **Singapore.**

4- Certificate from the 6th International Advanced Technologies Symposium (IATS'11) – **Turkey.**

5- Certificate from 2011 3rd International Conference on Computer Technology and Development (ICCTD 2011) – **China.**

6- Certificate from 3rd International Conference on Mechanical and Electrical Technology (ICMET 2011 ) – **China.**

7- Certificate from 2012 International Conference on Biomedical Engineering and Biotechnology (ICBEB) - **China.**

8- Certificate from 15<sup>th</sup> International Conference on Applied Mechanics and Mechanical Engineering (AMME-15) - **Egypt.**

9- Certificate from 2nd International Conference on Mechanical Science and Engineering (ICMSE 2012) – **China.**

10- Certificate from 3rd International Conference on Computer Science and Logistics Engineering (ICCSLE 2013) – **China.**

11- Certificate from 4<sup>th</sup> International Conference on Mechanical Science and Engineering (ICMSE 2014) – **China.**

12- Certificate from 2014 The International Conference on Mechanical Engineering and Design (MED 2014) – **China.**

13- Certificate from Journal of Naval Architecture and Marine Engineering – **Bangladesh.**

14- Certificate from International Journal of Mechanical and Materials Engineering (IJMME) – **Malaysia.**

15- Certificate from Engineering Applications of Computational Fluid Mechanics Journal – **Hong Kong.**

- 16- Certificate from Journal of Engineering Science and Technology – **Malaysia**.
- 17- Certificate from Fundamental Journal of Thermal Science and Engineering – **India**.
- 18- Certificate from Fundamental Journal of Mathematical Physics – **India**.
- 19- Certificate from Fundamental Journal of Modern Physics – **India**.
- 20- Certificate from Journal of Encapsulation and Adsorption Sciences – **United States of America**.
- 21- Certificate from Journal of Electronics Cooling and Thermal Control – **United States of America**.
- 22- Certificate from International Journal of Modeling and Optimization – **Singapore**.
- 23- Certificate from AMSE Journals – **France**.
- 24- Certificate from Mathematica Aeterna - **Bulgaria**.
- 25- Certificate from American Journal of Analytical Chemistry (AJAC) – **United States of America**.
- 26- Certificate from International Journal of Advanced Renewable Energy Research – **United States of America**.
- 27- Certificate from Thermal Energy and Power Engineering (TEPE) – **Hong Kong**.
- 28- Certificate from International Journal of Information Engineering (IJIE) – **United States of America**.
- 29- Certificate from Scientific Research and Essays (SRE) - **Nigeria**.
- 30- Certificate from Frontiers in Heat and Mass Transfer (FHMT) - **United States of America**.
- 31- Certificate from International Journal of Heat and Technology – **Italy**.
- 32- Certificate from Advanced Shipping and Ocean Engineering (ASOE) – **Hong Kong**.
- 33- Certificate from Researches and Applications in Mechanical Engineering (RAME) – **United States of America**.
- 34- Certificate from American Journal of Advanced Scientific Research (AJASR) – **Germany**.
- 35- Certificate from International Journal of Computer Science and Artificial Intelligence (IJCSAI) – **Hong Kong**.
- 36- Certificate from ARPJ Journal of Science and Technology – **Pakistan**.

- 37- Certificate from Theory and Applications of Mathematics and Computer Science (TAMCS) – **Romania**.
- 38- Certificate from Online International Journal of Engineering and Technology Research (OIJETR) – **Nigeria**.
- 39- Certificate from Prudence Journal of Engineering and Technology Research (PJETR) – **Nigeria**.
- 40- Certificate from Thermal Science – **Serbia**.
- 41- Certificate from African Journal of Engineering Research (AJER) – **Nigeria**.
- 42- Certificate from Journal of Energy, Heat and Mass Transfer – **India**.
- 43- Certificate from Journal of Basic and Applied Scientific Research (JBASR) – **United States of America**.
- 44- Certificate from Computer Communication and Collaboration (CCC) – **Canada**.
- 45- Certificate from Journal of Scientific Research – **Bangladesh**.
- 46- Certificate from Mathematical Problems in Engineering - **Egypt**.
- 47- Certificate from Advances in Chemical Engineering and Science (ACES) – **United States of America**.
- 48- Certificate from Journal of Mechanical Engineering and Technology (JMET) – **United States of America**.
- 49- Certificate from Scientia Research Library (SRL) – **India**.

### Prizes and Honors

- 1- Science Day Prize (2011) – Ministry of Higher Education and Scientific Research – **Iraq**.
- 2- Science Day Prize (2012) – Ministry of Higher Education and Scientific Research – **Iraq**.
- 3- Scopus H-Index of 5 – **United States of America**.

### International Collaboration.

- 1- Dr. Waqar Ahmed Khan (Professor of Mechanical Engineering - National University of Sciences and Technology - Department of Engineering Sciences - PN Engineering College - PNS Jauhar, Karachi 75350, **Pakistan** ).
- 2- Dr. Hakan F. Oztop (Associate Professor - Firat University - Department of Mechanical Engineering - Technology Faculty - Elazig, **Turkey** ).

3- Dr. Hussain H. Al-Kayiem (Associate Professor - Universiti Teknologi PETRONAS , (UTP) - Department of Mechanical Engineering , Block 17 - Bandar Seri Iskandar , 31750 Tronoh , Perak , **Malaysia** ).

4-Mr.Sumon Saha (Assistant Professor- Bangladesh University of Engineering and Technology (BUET) -Department of Mechanical Engineering , Dhaka 1000, **Bangladesh** ).

5-Dr.Hussein A. Mohammed (Associate Professor - Universiti Teknologi Malaysia (UTM) , Department of Thermofluids, Faculty of Mechanical Engineering , 81310 UTM Skudai , Johor Bahru , **Malaysia** ).

6- Dr. Sameh Elsayed Ahmed ( Lecturer - South Valley University , Faculty of Sciences, 83523 , Department of Mathematics , Qena , **Egypt** ).

7- Mr. Goutam Saha (Lecturer - University of Dhaka , Department of Mathematics , Dhaka 1000 , **Bangladesh** ).

8- Dr. Arman Hasanpour (Lecturer - Babol Noshirvani University of Technology , Faculty of Mechanical Engineering , Babol , **Iran** ).

9- Dr.Lioua Kolsi (Lecturer - Unité de Métrologie en Mécanique des Fluides et Thermique, École Nationale d'Ingénieurs de Monastir, Université de Monastir, 5000, **Tunisia** ).

10- Dr.Watit Pakdee (Assistant Professor - Department of Mechanical Engineering , Faculty of Engineering , Thammasat University , Rangsit Campus , Klong Luang , Pathumthani , **Thailand** ).

11- Dr. I.K. Adegun ( Senior Lecturer - Department of Mechanical Engineering , University of Ilorin , Ilorin , **Nigeria** ).

12- Dr. S. Sivasankaran ( Senior Lecturer - Institute of Mathematical Sciences , University of Malaya , Kuala Lumpur 50603 , **Malaysia** ).

### Another Engineering Jobs.

- 1- Work as a consultant in the thermal design field in a Al-Fourat company for Chemical Industries in Al-Massayiab – Hilla- Iraq.
- 2- Work as a consultant in the General Company of Mechanical Industries ( Casting Unit) in Al-Askandariaya – Hilla- Iraq.
- 3- Work as a member of engineering group which prepare the mechanical engineering designs and tenders for air conditioning systems related to College of Law – Babylon University – Hilla –Iraq.
- 4- Work as a member of engineering group which prepare the mechanical engineering designs and tenders for Al-Hilla Waste Water Plant– Hilla –Iraq.
- 5- Work as a member of engineering group which prepare the mechanical engineering designs and tenders for Al-Kafal Waste Water Plant– Hilla –Iraq.

- 6- Work as a member of engineering group which prepare the mechanical engineering designs and tenders for Al-Shamayia Waste Water Plant– Najaf – Iraq.
- 7 - Work as a member of engineering group which prepare the mechanical engineering designs and tenders for air conditioning systems related to several buildings in University of Technology – Baghdad –Iraq.
- 8- Work as a member of engineering group which prepare the mechanical engineering designs and tenders for Fire Fighting System and Automatic Gate related to Hilla – Baghdad check point project.

## Publications.

### A. Books.

- 1- **Aerodynamics of Supersonic Flying Bodies** , Publisher : LAP LAMBERT Academic Publishing GmbH & Co. KG , Heinrich-Böcking-Str. 6-8 , 66121, Saarbrücken , **Germany** , **ISBN 978-3-8484-4447-2** , 187 Pages , 2012.

### B. Papers Published in Local Journals and Conferences.

- 1- Numerical investigations of can combustor with air preheat, *Journal of Engineering and Development*.
- 2- Numerical prediction of primitive variables for two dimensional supersonic flow over a wedge, *Babylon University Journal* ,Vol.12 , No.5 , pp : 1105-1118, 2006.
- 3- Numerical solution of aerodynamic parameters for two-dimensional external supersonic flow over a double wedge, *Supplement Al-Kufa Journal* ,Vol.8 , No.2 , pp : 55-67, 2007.
- 4- The effects of two shaft gas turbine operating conditions on the overall performance, *Al-Qadissiya Journal for Engineering Sciences* ,Vol.1 , No.1 , pp : 60-75 , 2008.
- 5- Prediction of shock wave and external flow field parameters in a moderate supersonic flow over a 3-D arc circular bump, *The Iraqi Journal for Mechanical and Materials Engineering*, Vol.9 , No.1 , pp : 1-14, 2009.
- 6- Numerical prediction of free convection phenomena through a rectangular inclined cavity filled with a porous media, *The Iraqi Journal for Mechanical and Materials Engineering* ,Vol.10 , No.1 , pp : 1-21, 2010.
- 7- Finite volume simulation of steady laminar natural convection heat transfer through a mercury – filled triangular enclosure with an isothermal cold side walls and an isothermal hot bottom wall , *Kufa Journal of Engineering* ,Vol.1 , No.1 , pp : 59-77 , 2009.
- 8 - Numerical analysis of mixed convective flow through a lid-driven inclined rectangular cavity filled with mercury, *Babylon University journal* , Vol. , No. , pp : - , 2010.
- 9 - Numerical simulation of natural convection in a laminar two – dimensional flow through a vertical rectangular duct, *Al-Qadissiya Journal for Engineering Sciences* , Vol.3 , No.1 , pp : 51- 63 , 2010.



10- Numerical simulation of buoyancy- driven laminar flow through an air –filled isosceles triangular enclosure with a differentially heated side walls and an adiabatic bottom wall , *Engineering and Technology Journal* , Vol.28 , No.10 , pp : 2054-2069 , 2010.

11- مقارنة المناهج الدراسية لبعض الجامعات العراقية بالمناهج القياسية العالمية (ABET) (المرحلة الثالثة والرابعة للهندسة الميكانيكية) وأثرها في تطوير التعليم الهندسي في جامعات إقليم كردستان- العراق Presented in The First Engineering Education Conference ( EEC 2012 ) , Kurdistan Region - University of Duhok , Duhok City , 17-19 April 2012 , ( in Arabic Language).

12- Three dimensional simulation of supersonic flow over missiles of different shapes , *Engineering and Technology Journal* , Vol.30 , No.3 , pp : 325 - 343 , 2012.

13- Combined convection in a TSNFL square cavity under various moving wall directions , *Journal of Kerbala University* , Vol.10 , No.4 Scientific, pp : 71- 85 , 2012.

### C. Papers Published in International Journals and Conferences.

- 1- A thermodynamic analysis of non-equilibrium heat conduction in a semi-infinite medium subjected to a step change in temperature, *Energy conversion and Management*, Vol.44, No.8, pp : 1373-1386, 2003 , **U.S.A.**
- 2- Numerical analysis of steady natural convection of water in inclined square enclosure with internal heat generation - *2010 International Conference on Mechanical and Electrical Technology Proceedings ( ICMET 2010 )* – Singapore - September 10 – 12 , 2010 , pp : 502-508 , **Singapore.**
- 3- Numerical investigation of natural convection phenomena in a uniformly heated circular cylinder immersed in square enclosure filled with air at different vertical locations, *International Communications in Heat and Mass Transfer*, Vol.37, No.8 , pp : 1115–1126 , 2010 , **U.S.A.**
- 4- Mixed convection through a lid-driven air – filled square cavity with a hot wavy wall - *International Journal of Mechanical and Materials Engineering (IJMME)* , Vol. 5, No.2 , pp : 222-235 , 2010 , **Malaysia.**
- 5- Mixed convection heat transfer in a differentially heated square enclosure with a conductive rotating circular cylinder at different vertical locations , *International Communications in Heat and Mass Transfer*, Vol. 38, No.2 , pp : 263–274, 2011 , **U.S.A.**
- 6- Natural convection heat transfer in a differentially heated square enclosure with a heat generating-conducting circular cylinder at different diagonal locations - *6<sup>th</sup> International Advanced Technologies Symposium Proceedings (IATS'11)*, 16-18 May , 2011 , pp : 13 -19 , Elazığ , **Turkey.**
- 7- Natural convection in a square inclined enclosure with vee-corrugated sidewalls subjected to constant flux heating from below , *Nonlinear Analysis: Modelling and Control* , Vol. 16, No. 2, pp : 152–169, 2011, **Lithuania.**

- 8- Natural convection in a modified square enclosure with an inclined triangular top wall subjected to uniform heat flux in its left vertical wavy side wall - *The Third Asian Symposium on Computational Heat Transfer and Fluid Flow ( ASCHT 2011)* , 22-26 September, 2011, Paper No.38 , pp : 1-10 , Kyoto University, Kyoto, **Japan**.
- 9- Starting up of waxy crude oil pipeline using ‘Hot Oiling’ technique - *Proceedings of the 3rd (2011) CUTSE International Conference* , 8-9 Nov. , 2011, pp : (068-917) - (075 - 917) , Miri , Sarawak , **Malaysia**.
- 10 -Mixed convection in a tilted lid-driven square enclosure with adiabatic cylinder at the center , *International Journal of Heat and Technology* ,Vol. 29, No.1, pp : 143-156, 2011, **Italy**.
- 11- Investigation of heat and mass transfer of MHD flow over the movable permeable plumb surface using HAM , *Middle-East Journal of Scientific Research* , Vol. 9, No. 4 , pp : 510-515 , 2011, **Pakistan**.
- 12- The application of nanofluids on three-dimensional mixed convection heat transfer in equilateral triangular duct , *International Journal of Heat and Technology* ,Vol. 29, No.2, pp : 3-12, 2011, **Italy**.
- 13- Heat transfer from hollow cylinder using optimal homotopy asymptotic method , *Heat Transfer - Asian Research* ,Vol. 41 , No.2 , pp : 114 -126 , 2012, **U.S.A.**
- 14- Numerical computation of buoyancy-driven flow and heat transfer in various aspect ratios cavities filled with water - *Proceedings of the 15<sup>th</sup> International Conference on Applied Mechanics and Mechanical Engineering (AMME-15)*, 29-31 May, 2012, pp : MP 146 - MP 163 , Military Technical College, Cairo, **Egypt**.
- 15- Effects of diameter ratio of adiabatic circular cylinder and tilt angle on natural convection from a square open tilted cavity, *Heat Transfer - Asian Research* ,Vol. 41 , No.5 , pp : 388 - 401 , 2012, **U.S.A.**
- 16- Numerical simulation of three-dimensional double diffusive free convection flow and irreversibility studies in a solar distiller , *International Communications in Heat and Mass Transfer*, Vol. 39, No.6 , pp : 869-876, 2012 , **U.S.A.**
- 17- Studying the effects of a longitudinal magnetic field and discrete isoflux heat source size on natural convection inside a tilted sinusoidal corrugated enclosure , *Computers and Mathematics with Applications* , Vol. 64 , No.4 , pp : 476-488 , 2012 , **U.S.A.**
- 18 - MHD natural convection inside an inclined trapezoidal porous enclosure with internal heat generation or absorption subjected to isoflux heating, *Heat Transfer - Asian Research* ,Vol. 41 , No.6 , pp : 498-515, 2012, **U.S.A.**
- 19 - Mixed convection of water-based nanofluids in a rectangular inclined lid-driven cavity partially heated from its left side wall , *Journal of Computational and*

*Theoretical Nanoscience* , Vol. 10 , No.9 , pp : 2222-2233, 2013, **U.S.A.**

- 20- Computational analysis of natural convection in a parallelogrammic cavity with a hot concentric circular cylinder moving at different vertical locations , *International Communications in Heat and Mass Transfer* , Vol. 46, No. , pp : 126 -133, 2013 , **U.S.A.**
- 21- Numerical study on mixed convection in an inclined lid-driven cavity with discrete heating , *International Communications in Heat and Mass Transfer* , Vol. 46, No. , pp :112-125, 2013 , **U.S.A.**
- 22- Experimental investigation of various solid particle materials on the steady state gas-solid fluidized bed system , *Journal of Basic and Applied Scientific Research* , Vol. 3, No.7 , pp : 293-304, 2013 , **U.S.A.**
- 23- Numerical simulation of three-dimensional supersonic flow around an aerodynamic bump , *Journal of Basic and Applied Scientific Research* , Vol. 3, No.7 , pp : 656-666, 2013 , **U.S.A.**
- 24- Launching process for variable-mass rockets by series solution , *Journal of Mechanical Engineering and Technology* , Vol. 1, No.1, pp : 13-20, 2013 , **U.S.A.**
- 25- Effect of a contaminant source (CO<sub>2</sub>) inside a ventilated room : Thermal comfort - air quality , *Researches and Applications in Mechanical Engineering* , Vol. 2, No.2, pp : 43-48, 2013 , **U.S.A.**
- 26- Natural convection analysis around a hot solid circular cylinder embedded inside an octagonal enclosure at various orientation locations - *International Conference on Mechanical Engineering and Manufacturing (ICMEM 2013)* , June 20-21 , 2013 , World Academy of Science, Engineering and Technology Vol.78 , pp : 1238-1243 , Istanbul , **Turkey.**
- 27- Natural convection in a square enclosure filled with a saturated porous matrix under different discrete heat sources locations - *International Conference on Mechanical Engineering and Manufacturing (ICMEM 2013)* , June 20-21 , 2013 , World Academy of Science, Engineering and Technology Vol.78 , pp : 1896-1902 , Istanbul , **Turkey.**
- 28- Numerical simulation of forced convective flow and heat transfer in gravitationally inclined circular pipes with equi-spaced internal fins, *Journal of Basic and Applied Scientific Research* , Vol. 3, No.10, pp : 182-193, 2013 , **U.S.A.**
- 29- Mixed convection in cylinders - A comprehensive overview and understanding , *Journal of Basic and Applied Scientific Research* , Vol. 3, No.10, pp : 328-338, 2013 , **U.S.A.**
- 30- Effects of a longitudinal magnetic field and discrete isoflux heat source size on natural convection inside a tilted sinusoidal corrugated enclosure , *Journal of Basic and Applied Scientific Research* , Vol. 3, No.10, pp : 402-415, 2013 , **U.S.A.**

- 31- Numerical study of natural convection around an adiabatic circular cylinder located inside a square open cavity , *Journal of Basic and Applied Scientific Research* , Vol. 3, No.11, pp : 189-200, 2013 , **U.S.A.**
- 32- Effect of dual-phase-lag in the presence of suction / injection on unsteady free convection micro-channel flow between two vertical porous plates , *Journal of Basic and Applied Scientific Research* , Vol. 3, No.11, pp : 230-250, 2013 , **U.S.A.**
- 33- Numerical analysis of transport phenomenon inside a pulse tube refrigerator coupled with fuzzy logic controller , *Universal Journal of Mechanical Engineering* , Vol. 1, No.3 , pp : 69-82 , 2013 , **U.S.A.**
- 34- Investigations of natural convective heat transfer in rectangular thermal passages , *International Journal of Mechanical Science and Engineering* , Vol. 7, No.3 , pp : 830-835 , 2013.
- 35- Finite volume simulation of natural convection in a trapezoidal cavity filled with various fluids and heated from the top wall , *Universal Journal of Fluid Mechanics* , Vol. 1, No. , pp : 24-36 , 2013 , **European Union.**
- 36- Mixed convection over a backward-facing step in a vertical duct using nanofluids – buoyancy opposing case , *Journal of Computational and Theoretical Nanoscience* , Vol. 11, No.3 , pp : 860-872 , 2014 , **U.S.A.**
- 37- Mixed convection in a lid-driven two-dimensional square cavity with corner heating and internal heat generation , *Numerical Heat Transfer, Part A* , Vol. 65, No.3 , pp : 269-286 , 2014 , **United Kingdom.**
- 38- Viscous dissipation and radiation effects on MHD natural convection in a square enclosure filled with a porous medium , *Nuclear Engineering and Design* , Vol. 266, No. , pp : 34-42 , 2014 , **U.S.A.**
- 39- Lattice Boltzmann simulation of natural convection heat transfer in an open enclosure filled with Cu–water nanofluid in a presence of magnetic field , *Nuclear Engineering and Design* , Vol. 268, No. , pp : 10-17 , 2014 , **U.S.A.**
- 40- Boundary layer flow and heat transfer due to permeable stretching tube in the presence of heat source / sink utilizing nanofluids , *Applied Mathematics and Computation* , Vol. 238, No. , pp : 149-162 , 2014 , **U.S.A.**

### Submitted to Publication.

- 1- Natural Convection Visualization by Heatlines in an Inclined Wavy Cavities Filled with Nanofluids and Subjected to a Discrete Isoflux Heating from its Left Sidewall.

- 2 - Numerical Simulation of Natural Convection In a Parallelogrammic Enclosure Containing Volumetric Heat Source with Non-Uniformly Heated Left Side Wall**
- 3 - Natural convection flow of an enclosure with a square solid body in the presence of heat generation.**
- 4- Combined Effects of Radiation and Viscous Dissipation on Magnetohydrodynamic Free Convection in a Square Porous Cavity with Localized Isoflux Heating.**
- 5- Mixed convection in a parallel motion two-sided lid-driven parallelogrammic cavity containing internal heat source with non-uniform hot left inclined side wall.**
- 6- Heat transfer enhancement by utilizing nanofluids in triangular micro channel heat exchanger .**
- 7- Applications of nanotechnology in renewable energies - A comprehensive overview and understanding.**
- 8- Effects of radiation on mixed convection in power-law fluids along vertical cone in porous media.**
- 9- Multi-objective optimization of a three-dimensional internally finned tube based on Response Surface Methodology (RSM).**
- 10- Magneto-hydrodynamic Laminar Mixed Convection in a Differentially Heated Two-Sided Lid-Driven Parallelogrammic Enclosure.**
- 11- Numerical Computation of 3-Dimensional Supersonic Flow Field over a Seamless Missile.**
- 12- THERMOFLUIDS FOR SOLAR ENERGY BASED POWER GENERATION**
- 13- Magneto-hydrodynamic mixed convection of water- $\text{Al}_2\text{O}_3$  nanofluid in a wavy lid-driven cavity.**
- 14- Modeling of MHD Natural Convection with Prandtl Number Effect Around an Adiabatic Square Shaped Body Located In a Square Enclosure By Using Lattice Boltzmann Method.**
- 15- Effect of blockage shapes on transient mixed convection nanofluid flow at backward facing step.**
- 16- MHD mixed convection in a three-dimensional lid-driven cavity.**
- 17- Natural convection in a complex rectangular cavity having an adiabatic solid strip and subjected to a uniform heat flux from its left sidewall.**

- 18- A 3D finite element analysis of incompressible fluid flow and contaminant transport through a porous landfill.**
- 19 - CFD Modeling of Mixed Convection In a Two-Sided Non-Facing Lid- Driven Square Cavity Filled with Air Under Various Moving Wall Directions.**
- 20- ONSET OF THERMAL INSTABILITY IN A LOW PRANDTL NUMBER NANOFLUID LAYER HEATED FROM BELOW IN A POROUS MEDIUM.**
- 21- Effect of suspended particles on the onset of thermal convection in a nanofluid layer with free boundaries.**
- 22- Mathematical model in the form of vorticity-stream function for combustion in porous Media.**
- 23- A 2-D Numerical Study of Non-linear Dynamics Behavior for Joule-Heated Rectangular Pool.**
- 24- Entropy generation minimization of three-dimensional magneto-hydrodynamic mixed convection in a lid-driven cubical cavity.**
- 25- A Comprehensive Review of Transient Natural Convection Flow in Enclosures.**
- 26- Numerical simulation of mixed convection of copper-water nanofluid in a rectangular inclined lid-driven enclosure with a localized heat source.**
- 27- Conjugate natural convection in an inclined square porous enclosure with finite wall thickness and partially heated from its left side wall.**
- 28- An experimental investigation of transient natural convection in a two-dimensional differentially heated air-filled elongated cavity : Gradual heating case**
- 29- Natural Convection in a Differentially Heated Square Enclosure Filled with Copper-Water Nanofluid and Subjected to an Inclined Magnetic Field.**
- 30- Mixed convection heat transfer in a lid-driven trapezoidal enclosure filled with nanofluids.**
- 31- The impact of flow arrangements on a trapezoidal shaped microchannel heat exchanger using nanofluids.**
- 32- Transient Buoyancy- Driven Laminar Convection in an Inclined Three- Dimensional Trapezoidal Enclosure.**
- 33- Computational analysis of three-dimensional unsteady natural convection and entropy generation in a cubical enclosure filled with water- $\text{Al}_2\text{O}_3$  nanofluid.**
- 34- Natural convection with viscous dissipation and radiation effects in an inclined square**

**porous enclosure using a thermodynamic non-equilibrium model.**

**35- Entropy generation analysis of combined heat and mass transfer for flow of water-based nanofluids over a flat plate.**

**36- Natural Convection Analysis around a Hot Solid Circular Cylinder Embedded Inside an Octagonal Enclosure at Various Orientation Locations.**

**37- Numerical study of three-dimensional unsteady natural convection and entropy generation in a cubical cavity with partially active vertical walls.**

**38- Three-dimensional unsteady natural convection and entropy generation in an inclined cubical trapezoidal cavity subjected to uniformly heated bottom wall.**

**39- ENERGY CONSUMPTION AND SAVINGS IN BUILDINGS.**