

# UNIVERSITY OF PRETORIA

## Department of Mechanical and Aeronautical Engineering

**Mohsen Sharifpur (CV)**- Updated April 2022

**Professor and Head of Nanofluids Research Laboratory**

**C2 rated researcher by NRF**

<https://scholar.google.co.za/citations?user=Ws1wL5MAAAAJ&hl=en&authuser=1>

**Inventor of “Source and Sink Theory”**

<https://dx.doi.org/10.22606/tp.2020.51001>

**Within the top 2 percent of the most-cited scientists in the world**

<https://dx.doi.org/10.17632/btchxktzyw>



### 1. BIOGRAPHICAL SKETCH

#### 1.1 GENERAL INFORMATION

<b>Surname</b>	Sharifpur	<b>First names</b>	Mohsen
<b>Citizenship</b>	Permanent Resident of South Africa, Iranian	<b>Title</b>	Prof.
<b>Population group</b>	Asian	<b>Marital status</b>	Married
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#### 1.2 ACADEMIC QUALIFICATIONS

Degree/ Diploma	Field of study	Higher education institution	Period	Year of registration	Distinctions
PhD	Mechanical Engineering (Thermal-Fluid)	EMU	4.5	2004	Yes (The only 4 out of 4)
MEng	Nuclear Engineering	Research and Science University	3	1998	Yes
MEng	Nuclear Engineering	Sharif University of Technology	1.5 (not completed)	1992	No
BEng	Mechanical Engineering	Shiraz University	5	1986	No

1.3 PROFESSIONAL REGISTRATION			
<b>Pr. Eng.</b>	Professional registration as professional engineer	<b>ECSA</b> (Engineering Council of South Africa)	2015

1.4 WORK EXPERIENCE TO DATE		
Name of employer	Capacity and/or type of work	Period
University of Pretoria	Professor	From January 2021
University of Pretoria	Associate Professor	January 2017- Dec. 2020
University of Pretoria	Senior Lecturer	Dec. 2009-Dec. 2016
EMU University	Research and Teaching assistant	2004-2009
Tire & Machine Industrial Co.	Project Manager and Engineer	2001 – 2004 (part-time)
Jahesh Sanat Co. (Innovation in industries Co.)	Member of board of directors	1999 - 2002
Academic Institute for Research and Education	Manager and Researcher	1996 - 2004
Airplane Maintenance	Researcher and Design Engineer	1994- 1996

### 1.5 Editorial board and editorial duty

- **Guest editor** for Journal of *Sustainability* (ISI), **Impact Factor: 3.251**. Special Issue "Applications of Artificial Intelligence Model of Heat and Mass Transfer"  
[https://www.mdpi.com/journal/sustainability/special\\_issues/Model\\_Transfer/](https://www.mdpi.com/journal/sustainability/special_issues/Model_Transfer/)
- **Guest Editor** for *Journal of Frontiers In Energy Research* (ISI), **Impact Factor: 4.008**. Special Issue "Enhancing Heat Transfer by Using Nanofluid to Improve the Efficiency of Thermal Systems"  
<https://www.frontiersin.org/research-topics/21038>
- **Guest Editor** for *International Journal of Thermofluid* (Elsevier). Special Issue on "Phase change materials and related technology applications towards thermal energy management and efficiency"  
<https://www.journals.elsevier.com/international-journal-of-thermofluids/call-for-papers>
- **Guest Editor** for f Journal of *Micromachines* (ISI), **Impact Factor: 2.891**. Special Issue " Fluid Dynamics and Heat Transport in Microchannels".  
[https://www.mdpi.com/journal/micromachines/special\\_issues/FD\\_and\\_HT\\_in\\_Microchannels](https://www.mdpi.com/journal/micromachines/special_issues/FD_and_HT_in_Microchannels)
- **Editorial board member** for *Journal of Mechanical Engineering*  
<https://tumechj.tabrizu.ac.ir/journal/editorial.board?lang=en>
- **Associate Editor** for *Journal of Modern Nanotechnology* (JMN, ISSN 2788-8118)  
<http://www.innovationforever.com/about-journal?journalcode=JMN&journalid=1339748319989231620>

<b>1.6 Evaluation of the Performance by line Manager in recent years (combination of research, lecture and other duties)</b>		
<b>Year</b>	<b>Outcome</b>	<b>Line Manager</b>
2018	Outstanding	Prof. Josua Meyer
2019	Outstanding	Prof. Josua Meyer
2020	Outstanding	Prof. Josua Meyer
2021	Outstanding	Prof. Josua Meyer

## 2. TEACHING AND LECTURING DUTIES

### 2.1 UNDERGRADUATE

#### 2.1.1 Courses/modules presented:

<b>Course</b>	<b>Level (second year, etc.)</b>	<b>Academic Institution</b>	<b>Degree/ Diploma</b>	<b>Compilation of study guides (Yes or No)</b>	<b>Curriculum design (Yes or No)</b>
Computational Fluid Dynamics (MKM 411)	4 <sup>th</sup>	UP	BS	Yes	Yes
Computational Mechanics (MKM 420)	4 <sup>th</sup>	UP	BS	Yes	Yes
Continuum Mechanics (MKM 320)	3 <sup>rd</sup>	UP	BS	Yes	Yes
Porous Flow (MAN 420)	4 <sup>th</sup>	UP	BS	Yes	Yes
Introduction to Mechanical Eng.	1 <sup>st</sup>	EMU	BS	Yes	Yes
Solar Energy Eng. (assist)	4 <sup>th</sup>	EMU	BS	No	No
Fluid Mechanics (assist)	3 <sup>rd</sup>	EMU	BS	No	No
Heat Exchanger Design (assist)	4 <sup>th</sup>	EMU	BS	No	No
Thermodynamics II (assist)	3 <sup>rd</sup>	EMU	BS	No	No
Heat Transfer(assist)	3 <sup>th</sup>	EMU	BS	No	No
Capstone Team Project (assist)	4 <sup>th</sup>	EMU	BS	No	No

#### 2.1.2 Study leader for design projects and research projects

The study leader for more than 200 design projects and research projects of final year undergraduate students in the department of mechanical and aeronautical engineering at UP since Dec. 2009.

### 2.1.3 External Examiner for Courses

Course	University	Year
Numerical Methods in Heat & Fluid Flow (MEC4045F)	University of Cape Town (UCT)	2013 & 2014
Fundamental of Heat Transfer (MECN3037/A)	University of Wits	2020

## 2.2 Courses/modules presented: POSTGRADUATE

Course	Level	Academic Institution	Degree/Diploma	Compilation of study guides (Yes or No)	Curriculum design (Yes or No)
THERMOFLOW (MTV 732)	MS	UP	MS	Yes	Yes
POROUS FLOW (MAN 780)	MS	UP	MS	Yes	Yes
ADVANCED FLUID MECHANICS (MSX 781)	MS	UP	MS	Yes	Yes

### 2.3 Educational courses attended

- Education Induction workshop (2010)
- Occupational Health and Safety workshop (2012)
- First Aid Level 1 & 2 (2016)

## 3. RESEARCH

### RESEARCH FIELD:

Convective Multiphase Flow  
 Nanofluids  
 Porous Media  
 Waste Heat to Work (and the effect on Global Warming)  
 Solar Energy Engineering  
 CFD  
 Nuclear Heat Transport  
 PCM

### SPECIALITY

Heat transfer  
 Convective Nanofluids  
 Boiling Heat Transfer  
 Computational Heat Transfer  
 Convective in Porous Media  
 Thermal-Fluid Analyses of Nuclear Reactors

### 3.1 RESEARCH DUTIES

<b>3.1.1 Former Post-doc supervision or co-supervision (completed)</b>			
<b>Name of researcher</b>	<b>Post-doc research title</b>	<b>Supervisor/ Co-supervisor(s)</b>	<b>Duration of studies (years)</b>
<b>Dr. Nwosu Paul Nwachukwu</b>	Investigation into the models for effective viscosity of nanofluids.	Prof M. Sharifpur/ Prof JP Meyer	2010-2011
<b>Dr. Mehdi Mehrabi</b>	A new model for Nanofluids based on artificial intelligence	Prof M. Sharifpur/ Prof JP Meyer	2015-2016
<b>Dr. Brusly Solomon Arulanandam</b>	Investigation into magnetic nanofluids for natural convection	Prof M. Sharifpur/ Prof JP Meyer	Oct. 2015-Mach 2017
<b>Dr. Mostafa Mahdavi</b>	Mathematical modeling and CFD simulation of nanoscale heat transfer	Prof M. Sharifpur/ Prof JP Meyer	Jan. 2017- Jan 2018 & Jan. 2020- Dec. 2021
<b>Dr. Umair Siddique</b>	CFD simulation of a novel jet nanofluid heat transfer	Prof M. Sharifpur/ Prof JP Meyer	Feb. 2021 – Feb. 2022

<b>3.1.2 Current Post-doc supervision or co-supervision</b>			
<b>Name of researcher</b>	<b>Post-doc research title</b>	<b>Supervisor(s)</b>	<b>Duration of studies (years)</b>
<b>Dr. Suseel Jaikrishnan</b>	<b>A novel Modeling for Hybrid nanofluid</b>	<b>Prof M. Sharifpur</b>	<b>January 2021 – Dec. 2022</b>

<b>3.1.3 Former supervision or co-supervision of postgraduate students (graduated)</b>			
<b>Name of student</b>	<b>Degree/Title of dissertation/ thesis and date</b>	<b>Supervisor/ Co-supervisor(s)</b>	<b>Year of graduation</b>
<b>Roozbeh Vaziri</b>	<b>MSc /</b> Experimental Study on Pressure Drops in Particle-Liquid Two-Phase Flow and Porous Media	Prof. Hikmet S Aybar/ Prof M. Sharifpur	2008
<b>Mehdi Mehrabi</b>	<b>PhD /</b> Modelling and Optimization of Thermophysical Properties and Convective Heat Transfer of Nanofluids by Using Artificial Intelligence Methods.	Prof M. Sharifpur/ Prof JP Meyer	2014
<b>Tshimanga Ntumba</b>	<b>MSc /</b> Experimental Investigation and Model Development for Thermal Conductivity of Glycerol-MgO Nanofluids	Prof M. Sharifpur/ Prof JP Meyer	2015
<b>Saheed Adio</b>	<b>PhD /</b> Mathematical modeling and experimental investigation into effective viscosity of nanofluids	Prof M. Sharifpur/ Prof JP Meyer	2015
<b>Ibrahim Garbadeen</b>	<b>MEng /</b> The experimental study of natural convection heat transfer of water/graphite nanofluids	Prof M. Sharifpur/ Prof JFM Slabber and Prof JP Meyer	2015
<b>Kyoung Lee</b>	<b>MEng /</b> Experimental investigation into cavity flow natural convection for ZnO nanofluids	Prof M. Sharifpur/ Prof JP Meyer	2016
<b>Saboura Yousefi</b>	<b>MEng /</b> Mathematical modeling and experimental investigation into Nanolayer of Nanofluids	Prof M. Sharifpur/ Prof JP Meyer	2016
<b>Hadi Ghodsinezhad</b>	<b>MEng /</b> CFD simulation and experimental investigation into cavity flow natural convection of Al <sub>2</sub> O <sub>3</sub> - Water Nanofluids	Prof M. Sharifpur/ Prof JP Meyer	2016
<b>Gaettan K Katamba</b>	<b>MSc /</b> Investigation into waste heat to work in thermal systems in order to gain more efficiency and less environmental defect	Prof M. Sharifpur/ Prof JP Meyer	2017
<b>Mostafa Mahdavi</b>	<b>PhD /</b> Study of flow and heat transfer features of nanofluids by CFD models: Eulerian multiphase and discrete Lagrangian approaches	Prof M. Sharifpur/ Prof JP Meyer	2017
<b>Elmi Grove</b>	<b>MEng /</b> A feasibility study on modification of one of the steam power plants of South Africa by using boiling condenser	Prof M. Sharifpur/ Prof JP Meyer	2017

<b>Tanja Ottermann</b>	<b>MEng /</b> CFD simulation and experimental investigation into cavity flow natural convection of TiO <sub>2</sub> -water nanofluids	Prof M. Sharifpur/ Prof JP Meyer	2017
<b>Johannes Joubert</b>	<b>MEng /</b> Influence of a magnetic field on magnetic nanofluids for the purpose of enhancing natural convection heat transfer	Prof M. Sharifpur/ Prof JP Meyer	2017
<b>Conrad Sanama</b>	<b>MSc /</b> Mathematical modelling of flow downstream of an orifice under flow-accelerated corrosion	Prof M. Sharifpur/ Prof JP Meyer	2018
<b>Vishal Ramnath</b>	<b>MEng /</b> Mathematical Modelling of Nanofluid Thermophysical Properties Using Copulas	Prof M. Sharifpur/ Prof JP Meyer	2018
<b>Nicolas Wilken</b>	<b>MEng /</b> Experimental investigation of free-surface jet-impingement cooling by means of TiO <sub>2</sub> -water nanofluid	Prof M. Sharifpur/ Prof JP Meyer	2020
<b>Giwa Solomon Olanrewaju</b>	<b>PhD /</b> Investigation into thermal-fluid properties of hybrid ferrofluids as heat transfer fluids	Prof M. Sharifpur/ Prof JP Meyer	2020
<b>Sohaib Mustafa Mohammad Osman</b>	<b>PhD /</b> Experimental investigation into convection heat transfer in the transition flow regime by using nanofluids in a rectangular channel	Prof M. Sharifpur/ Prof JP Meyer	2020
<b>Collins Nwaokocho</b>	<b>PhD /</b> Investigation into stability and thermal-fluid behaviour of hybrid nanofluids as heat transfer fluids	Prof M. Sharifpur/ Prof JP Meyer	2022
<b>Sidhant Kumar Manilal</b>	<b>MEng /</b> The coupled effect of surface roughness and nanoparticle size on the heat transfer enhancement of nanofluids for pool boiling	Prof M. Sharifpur/ Prof JP Meyer	2022
<b>Rajesh Padiyaar</b>	<b>MEng /</b> Influential cooling of the free surface by jet impingement of aqueous nanodispersion dominant with hybridized nanoparticles	Prof M. Sharifpur/ Prof JP Meyer	2022
<b>Modaser Hamid Morahed</b>	<b>PhD /</b> Experimental investigation into natural convection heat transfer enhancement by convective hybrid nanofluids in a square cavity	Prof M. Sharifpur/ Prof JP Meyer	2022

### 3.1.4 Current postgraduate students

Name of student	Degree	Project title	Supervisor	Co-supervisor(s)	Year of registration	Expected completion
Cornelius Siakachoma	PhD/ Part time	Efficiency Improvement of Solar Heaters	Prof. M. Sharifpur	Prof. J.P. Meyer	2017	July 2022
Saboura Yousefi	PhD/ Part time	Modeling and multi-objective optimization of heat transfer characteristics and pressure drop of nanofluids in microtubes.	Dr Mehdi Mehrabi	Prof. M. Sharifpur & Prof. J.P. Meyer	2017	July 2022
Hassan Bazai	PhD/ Full time	Mathematica modeling and CFD simulation of convective nanofluids for jet cooling	Prof. M. Sharifpur	Prof. J.P. Meyer	2019	July 2022
Vishal Ramnath	PhD/ Part time	Investigation of Optimal Thermophysical and Optical Characteristics for Nanofluid Based Solar Collecting Systems	Prof. M. Sharifpur	Prof. J.P. Meyer	2020	Dec. 2023
Ibrahim Umar	PhD/ Full time	Investigation into heat transfer enhancement by using nanofluids in forced convection transient flow.	Prof. M. Sharifpur	Prof. J.P. Meyer	2020	Dec. 2023
Emmanuel Atofarati	PhD/ Full time	Investigation into heat transfer enhancement by using hybrid nanofluids in jet cooling.	Prof. M. Sharifpur	Prof. J.P. Meyer	2021	Dec. 2023



### 3.1.6 Examiner for Postgraduates Thesis

Year	Degree, candidate & Supervisor	Title of the Thesis	University
2012	MEng. M Hallquist, Prof. J.P. Meyer	Heat transfer and pressure drop characteristics of smooth tubes at a constant heat flux in the transitional flow regime	University of Pretoria
2013	MEng. PJ Yekoladio Prof T Bello-Ochende	Thermodynamic optimization of sustainable energy system: Application to the optimal design of heat exchangers for geothermal power systems	University of Pretoria
2016	MEng. S. Leith, Prof. JFM Slabber	An investigation into the external flow boiling phenomena on the surface of water cooled Zircaloy-4 and silicon carbide nuclear fuel cladding	University of Pretoria
2016	MEng. P. A. Prinsloo, Prof. J. Dirker	Investigation on turbulent heat transfer and pressure drop characteristics in the annuli of tube-in-tube heat exchangers	University of Pretoria
2016	MEng. J. Otto, Prof. JFM Slabber	Nuclear fusion of Li-6 H-2 crystals	University of Pretoria
2017	PhD M. K. Rashid, Prof. M. A. M. Salleh	Improving petroleum liquids flow in a rotating disk apparatus using structured inner surfaces and polymeric additives	University of Putra Malaysia
2019	PhD D. R. E. Ewim, Prof. J.P. Meyer	Condensation inside horizontal and inclined smooth tubes at low mass fluxes	University of Pretoria
2019	MEng A. M. Ndimande, Prof P. Tabakov	Heat Recovery in a Milk Powder Spray-Drying Process	Durban University of Technology

2020	MEng M Meyer, Dr M. Mehrabi	Modelling and multi-objective optimisation of heat transfer characteristics and pressure drop of nanofluids in microtubes	University of Pretoria
2020	PhD Deepti Charitar, Dr. Amos Madhlopa	Exploring the potential of nanofluids to enhance the productivity of solar stills	University of Cape Town
2020	PhD D Gopinath, Prof. E.G. Sundarm	Experimental studies on effect of oxygenated additive on performance, emission and combustion characteristics of multicylinder SI engine	Anna University
2021	MEng M.K. Seal, Dr M. Mehrabi	The prediction of condensation flow patterns by using artificial intelligence (AI) techniques	University of Pretoria
2021	PhD Aasa, Dr G. Mahmood	Convective heat transfer in a rectangular channel using various groove rough surfaces	University of Pretoria
2021	PhD J. C. Joubert, Prof. N. Wilke	Coupled DEM-MLM for Interaction Between Faceted Polyhedral Particles and Weakly Compressible Fluids	University of Pretoria
2021	MEng R.A. van der Walt, Prof. N. Wilke	Modelling of Resonant Acoustic Mixing of Dry Spherical Particles	University of Pretoria
2021	PhD D Vasudevan, Prof. D. Senthilkumar	Experimental Studies on Heat Transfer Enhancement in Pool Boiling Using Aqua Based Nanofluids	Anna University
2021	PhD S Veeramachaneni Prof. P. S. Kishore	Experimental Investigation on Performance of Miniature Loop Heat Pipe Using Novel Hybrid Nanofluids and Composite Wick Structures	Andhra University

Origin of research funds	Title of the research project	Duration
RESEARCH DEVELOPMENT PROGRAMME (RDP)	Investigation into Thermal–Fluid Behavior of Nanofluids	2010-2012
Fluxion-CSIR	Final year projects of my undergraduate students concerning CFD simulation	2014
IRT seed-funding	Investigation into Thermal–Fluid Behavior of Nanofluids	2014-2016
NRF-Intensive funding	Thermal–Fluid Behavior of Nanofluids	2017-2022
European Research Council (ERC)- -Horizon 2020 A part of an international collaboration (Grant No. 778104)	Phase-change application for thermal management of high-power microprocessors	2017-2022

Funds for building the prototype of an innovative idea	Title of the funded project	Duration
Funder: Technology Innovation Agency of South Africa	Emergency cooling	2016-2018

### 3.1.7 Awards

- The highest GPA award (4 out of 4 for PhD study) within all postgraduate students
- **Best Paper award** in the 11th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT 2015), July 20-23, 2015, Kruger National Park, South Africa.
- **Winner of the Departmental Teaching and Learning Award in 2020** (in the Department of Mechanical and Aeronautical Engineering at University of Pretoria).

## 3.2 RESEARCH OUTPUT

### 3.2.1 Articles published in refereed accredited journals/chapter books

- 1 Tao Zhang, Xin Guo, Brusly Solomon, **Mohsen Sharifpur**, Li-Zhi Zhang, A hydrophobic-hydrophilic MXene/PVDF composite hollow fiber membrane with enhanced antifouling properties for seawater desalination, Journal of Membrane Science, 2022, Vol. 644, 120146. (IF= 8.742)  
<https://doi.org/10.1016/j.memsci.2021.120146>
- 2 S Alqaed, J Mustafa, **M Sharifpur**, G Cheraghian, Using nanoparticles in solar collector to enhance solar-assisted hot process stream usefulness. Sustainable Energy Technologies and Assessments 2022, Vol 52, 101992. (IF= 5.353)  
<https://doi.org/10.1016/j.seta.2022.101992>
- 3 N Farouk, M Abd El-Rahman, **M Sharifpur**, W Guo, Assessment of CO2 emissions associated with HVAC system in buildings equipped with phase change materials. Journal of Building Engineering 2022, Vol 51, 104236. (IF= 5.318)  
<https://doi.org/10.1016/j.jobe.2022.104236>
- 4 B Heidarshenas, N Sina, AS El-Shafay, S Saleem, **M Sharifpur**, The effect of the zigzag arrangement of lithium-ion batteries inside the air duct of an office building for heating and evaluation of the impact of the number of air outlets in different seasons of the year. Journal of Energy Storage 2022, Vol 50, 104204 (IF= 6.583)  
<https://doi.org/10.1016/j.est.2022.104204>
- 5 FA Almehmadi, S Alqaed, J Mustafa, B Jamil, **M Sharifpur**, G Cheraghian, Combining an active method and a passive method in cooling lithium-ion batteries and using the generated heat in heating a residential unit. Journal of Energy Storage 2022, Vol 49, 104181. (IF= 6.583)  
<https://doi.org/10.1016/j.est.2022.104181>
- 6 B Heidarshenas, N Sina, S Saleem, AS El-Shafay, **M Sharifpur**, Utilization of a solar system to charge lithium-ion batteries and using the heat generated in an in-line lithium-ion battery to heat a guard room. Journal of Energy Storage 2022, Vol. 49, 104134. (IF= 6.583)  
<https://doi.org/10.1016/j.est.2022.104134>
- 7 T Hai, AS El-Shafay, JM Zain, M Abd El-Rahman, **M Sharifpur**, The effect of triangular phase change material rods in the air conditioning duct on the amount of energy required for a residential building. Journal of Building Engineering 2022, 104330 (IF= 5.318)  
<https://doi.org/10.1016/j.jobe.2022.104330>
- 8 C Liu, Y Yan, W Sun, X Shi, N Shi, Y Huo, J Zhao, Z Said, **M Sharifpur**, Preparation and thermophysical study on a super stable copper oxide/deep eutectic solvent nanofluid. Journal of Molecular Liquids 2022, Vol 356, 119020 (IF= 6.165)  
<https://doi.org/10.1016/j.molliq.2022.119020>
- 9 SM Seyyedi, M Hashemi-Tilehnoee, M Sharifpur, Thermoeconomic analysis of a solar-driven hydrogen production system with proton exchange membrane water electrolysis unit. Thermal Science and Engineering Progress, 2022, 101274 (IF= 4.946)  
<https://doi.org/10.1016/j.tsep.2022.101274>

- 10 AN Abdalla, AS El-Shafay, Yongfeng Ju, Magda Abd El-Rahman, Muhammad Shahzad Nazir, **Mohsen Sharifpur**, Assessment of loading phase change material into net meter building to boost excess electricity generation. *Journal of Building Engineering* 2022, Vol 52, 104386 (IF= 5.318)  
<https://doi.org/10.1016/j.jobe.2022.104386>
- 11 Behrooz Ruhani, Awatef Abidi, Ahmed Kadhim Hussein, Obai Younis, Mohamed Degani, **Mohsen Sharifpur**, Numerical simulation of the effect of battery distance and inlet and outlet length on the cooling of cylindrical lithium-ion batteries and overall performance of thermal management system, *Journal of Energy Storage*, 2022, Vol. 45, 103714. (IF= 6.583)  
<https://doi.org/10.1016/j.est.2021.103714>
- 12 J Mustafa, S Alqaed, **M Sharifpur**, Incorporating nano-scale material in solar system to reduce domestic hot water energy demand, *Sustainable Energy Technologies and Assessments*, 2022, 49, 101735. (IF= 5.353)  
<https://doi.org/10.1016/j.seta.2021.101735>
- 13 Juhyeon Lee, Awatef Abidi, S Mohammad Sajadi, AS El-Shafay, Mohamed Degani, **Mohsen Sharifpur**, Study of the effect of the aspect ratio of a cylindrical lithium-ion battery enclosure in an air-cooled thermal management system, *Journal of Energy Storage*, 2022, Vol. 45, 103684. (IF= 6.583).  
<https://doi.org/10.1016/j.est.2021.103684>
- 14 SO Giwa, KA Adegoke, **M Sharifpur**, JP Meyer, Research trends in nanofluid and its applications: a bibliometric analysis. *Journal of Nanoparticle Research* 2022, Vol 24 (3), 1-22 (IF= 2.253)  
<https://doi.org/10.1007/s11051-022-05453-z>
- 15 Raj Kumar, Rahul Nadda, Sushil Kumar, Abdul Razak, **Mohsen Sharifpur**, Hikmet S Aybar, C Ahamed Saleel, Asif Afzal, Influence of artificial roughness parametric variation on thermal performance of solar thermal collector: An experimental study, response surface analysis and ANN modelling. *Sustainable Energy Technologies and Assessments* 2022, Vol 52, 102047. (IF= 5.353)  
<https://doi.org/10.1016/j.seta.2022.102047>
- 16 Suvanjan Bhattacharyya, Devendra Kumar Vishwakarma, Adithya Srinivasan, Manoj K Soni, Varun Goel, **Mohsen Sharifpur**, Mohammad Hossein Ahmadi, Alibek Issakhov, Josua Meyer, Thermal performance enhancement in heat exchangers using active and passive techniques: a detailed review. *Journal of Thermal Analysis and Calorimetry* 2022, 1-53 (IF= 4.626)  
<https://doi.org/10.1007/s10973-021-11168-5>
- 17 K Ajith, MJ Aaron, AS Pillai, IV Enoch, AB Solomon, **M Sharifpur**, JP Meyer, Turbulent magnetohydrodynamic natural convection in a heat pipe-assisted cavity using disk-shaped magnesium ferrite nanoparticles. *Applied Nanoscience*, 2022, 1-15. (IF= 3.674)  
<https://doi.org/10.1007/s13204-022-02356-2>
- 18 Tatiana Victorovna Morozova, Reza Alayi, John William Grimaldo Guerrero, **Mohsen Sharifpur**, Yaser Ebazadeh, Investigation and optimization of the performance of energy systems in the textile industry by using CHP systems. *Sustainability* 2022, Vol 14 (3), 1551 (IF= 3.251)  
<https://doi.org/10.3390/su14031551>
- 19 Saeed Khojaste Effatpanah, Mohammad Hossein Ahmadi, Pasura Aungkulanon, Akbar Maleki, Milad Sadeghzadeh, **Mohsen Sharifpur**, Lingen Chen, Comparative Analysis of Five Widely-Used Multi-Criteria Decision-Making Methods to Evaluate Clean Energy Technologies: A Case Study. *Sustainability*, 2022, Vol 14 (3) 1403 (IF= 3.251)  
<https://doi.org/10.3390/su14031403>
- 20 S.O. Giwa, C.N. Nwaokocha, **M Sharifpur**, An appraisal of air quality, thermal comfort, acoustic, and health risk of household kitchens in a developing country. *Environmental Science and Pollution Research*, 2022, Volume 29, 26202–26213. (IF= 4.223)  
<https://doi.org/10.1007/s11356-021-17788-6>

- 21 C. Nwaokocha, M Momin, S Giwa, **M Sharifpur**, SMS Murshed, JP Meyer, Experimental investigation of thermo-convection behaviour of aqueous binary nanofluids of MgO-ZnO in a square cavity, *Thermal Science and Engineering Progress*, 2022, 101057. (IF= 4.946)  
<https://doi.org/10.1016/j.tsep.2021.101057>
- 22 Anurag Shrivastava, J. Prakash Arul Jose, Yogini Dilip Borole, R. Saravanakumar, **Mohsen Sharifpur**, Hossein Harasi, R.K. Abdul Razak, Asif Afzal, A study on the effects of forced air-cooling enhancements on a 150 W solar photovoltaic thermal collector for green cities, *Sustainable Energy Technologies and Assessments*, 2022, 49, 101782. (IF= 5.353)  
<https://doi.org/10.1016/j.seta.2021.101782>
- 23 Mohammad Zandie, Amirhossein Moghaddas, Alireza Kazemi, Mohammad Ahmadi, Hadi Nikbin Feshkache, Mohammad Hossein Ahmadi, **Mohsen Sharifpur**, The impact of employing a magnetic field as well as Fe<sub>3</sub>O<sub>4</sub> nanoparticles on the performance of phase change materials, *Engineering Applications of Computational Fluid Mechanics*, 2022, Vol. 16, pp. 196 -214. (IF= 8.391)  
<https://doi.org/10.1080/19942060.2021.2006092>
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- 197 **M. Sharifpur**, Kyoung-Yeoll Lee and J. P. Meyer, Experimental Investigation into Cavity Flow Natural Convection of Zinc Oxide-Water Nanofluids, 1st International Conference on Nanofluids (ICNf2019) & 2nd European Symposium on Nanofluids (ESNf2019) 26-28 June 2019, Castelló, Spain.
- 198 S. M. Sohel Murshed, **Mohsen Sharifpur**, Solomon Giwa and Josua P. Meyer, Trend of Experimental Natural Convection of Nanofluids, 14th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT 2019), 22 -24 July 2019, Wicklow, Ireland.
- 199 Sohaib Osman, **Mohsen Sharifpur**, Josua P Meyer, The Effect of Chopping the Boundary Layer at the Inlet on the Transition Heat Transfer and Pressure Drop Characteristics in Smooth Horizontal Tube, 14th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT 2019), 22 -24 July 2019, Wicklow, Ireland.
- 200 A.L. Sriram Sudhan, A. Brusly Solomon, **Mohsen Sharifpur**, Josua P. Meyer, Design and testing of anodised grooved heat pipe using refrigerants, 14th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT 2019), 22 -24 July 2019, Wicklow, Ireland.

- 201 J.T. Awua, J.S. Ibrahim, **M. Sharifpur** and J.P.Meyer, Particle Characterization and Stability of Nanofluid Prepared from Palm Kernel Fibre with Mixture of Water and Ethylene Glycol as Base Fluid, 14th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT 2019), 22 -24 July 2019, Wicklow, Ireland.
- 202 C. Siakachoma, M. A. Moghimi, **M. Sharifpur**, J. P. Meyer, Direct Normal Irradiance Prediction for South Africa using Clearness Number Contour Maps, The 5th Southern African Solar Energy Conference (SASEC 2018) 25 to 27 June 2018, Durban, South Africa.
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- 216 **M. Sharifpur**, S.A. Adio and J.P. Meyer, Experimental Investigation on the Viscosity, Electrical Conductivity and pH of SiO<sub>2</sub>-Ethylene Glycol Nanofluids, 11th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT 2015), July 20-23, 2015, Kruger National Park, South Africa.
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- 220 Ibrahim Garbadeen, **M. Sharifpur**, Johan Slabber and J.P. Meyer, Numerical Study on Natural Convection Flow in MWCNT Nanofluid-filled Square Enclosure Based on Experimental Conductivity and Viscosity Model, (**Best Paper** in the session) 11th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT 2015), July 20-23, 2015, Kruger National Park, South Africa.
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- 223 Ridwaan Ebrahim, Marilize Everts, Johannes P. Kruger, Elizna Miles, **Mohsen Sharifpur** and Josua P. Meyer, TURBULENT FLOW ACROSS A ROTATING CYLINDER WITH SURFACE ROUGHNESS, 10th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT2014), July 14-16, 2014, Orlando, Florida, USA.
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- 233 Mehdi Mehrabi, Tuhid Pashae, **Mohsen Sharifpur**, Josua P. Meyer, Application of genetic algorithm-polynomial neural network for modelling heat transfer and fluid flow characteristics of a double-pipe heat exchanger, ASME 2013 Summer Heat Transfer Conference HT2013, July 14-19, 2013, Minneapolis, MN, USA.
- 234 SA Adio, **M Sharifpur** and JP Meyer, Investigation into Effective Viscosity and Electrical Conductivity of  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> – Glycerol Nanofluids in Einstein Concentration Regime, 13<sup>th</sup> UK Heat Transfer Conference, UKHTC2013, 2 - 3 September 2013, Imperial College London, UK.
- 235 **Sharifpur M** and Meyer JP, 2012, The effect of uncertainty of conductivity and viscosity of nanofluids on heat transfer, 1st International Conference on Nanostructures and Nanomaterial: Science and Application Nanotech2012, February 7-9, 2012, Masjed-Soleyman, Iran.
- 236 **Sharifpur M** and Meyer JP, 2012, Cavity Flow Natural Convection of Nanofluids; Experimental Set-up, Preparation of Nanofluids and Health issues. 1st International Conference on Nanostructures and Nanomaterial: Science and Application Nanotech2012, February 7-9, 2012, Masjed-Soleyman, Iran.
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- 241 **Sharifpur M** and Meyer JP, Opportunities in Nanofluid Composites, The 3rd International Conference on Composites: Characterization, Fabrication and Application (CCFA-3) December 18-19, 2012. Tehran, Iran.
- 242 Meyer JP, Nwosu PN and **Sharifpur M**, 2011, A Critical Review and Algorithm-based Approach for Selection of Appropriate Nanofluid Viscosity Models, ASME 2011 Mechanical Engineering Congress and Exposition, November 11-17, 2011, Denver, Colorado, USA.
- 243 Hikmet S. Aybar, **Mohsen Sharifpur**, Roozbeh Vaziri, 2008, Pressure Gradient Prediction in Particle-Liquid Two-Phase Flow, IMECE2008-68632, Vol. 10: Heat Transfer, Fluid Flows, and Thermal Systems, Parts A, B, and C pp. 1901-1905, USA.
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- 246 **Mohsen Sharifpur**, 2008, Waste to Energy in power plants; Increasing Thermal Efficiency and Decreasing Environment Defects, International Multi-Conference on Engineering and Technological Innovation: IMETI 2008, USA.
- 247 **Mohsen Sharifpur**, 2008, Designing New Cooling System for Automobiles to Get more Fuel Efficiency and Less Environment Defects, ASME -IMECE2008-68413, Vol. 17: Transportation Systems, pp. 355-359, USA.
- 248 **Mohsen Sharifpur**, 2007a, Designing Boiling Condenser for more Efficiency in Power Plants and less Environment Defects, ASME -POWER2007-22201, pp. 55-59, USA.
- 249 B. Y. Aldabbagh, **Mohsen Sharifpur**, Mahdi Zamani, 2007, Experimental Study of Free convection about a Vertical flat plate in Porous Media, DSL 2007 Conference, Portugal.
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- 251 **Mohsen Sharifpur**, 2006, Overall Review of Modelling in Convective Two-Phase Flow, ASME International Conference, Yeditepe University, Istanbul, Turkey.
- 252 **Mohsen Sharifpur**, Mahmoud Salehi, Ali Nouri Brojerdi and Ali Arefmanesh, 2003, Ensemble Averaged Bubbly Two-Phase Flow Numerical Simulation in Vertical Ducts for the Void-Studying Behavior in BWRs, 11th International Conference on Nuclear Engineering ASME -ICONE 11, p.290, Japan.

## OTHER SCHOLARLY RESEARCH-BASED CONTRIBUTIONS

### Referee duties and collaboration with conferences

- Reviewer for refereed accredited journals **including** International Journal of Heat and Mass Transfer, Experimental Thermal and Fluid Science, Energy, International Communications in Heat and Mass Transfer, International Journal of Thermal Sciences, Renewable Energy, Journal of Thermal Analysis and Calorimetry, Heat Transfer Engineering, Journal of the Taiwan Institute of Chemical Engineers, Journal of Magnetism and Magnetic Materials, Computer Methods and Programs in Biomedicine, RSC Advances Journals, Engineering Science and Technology: an International Journal, Journal of Applied Physics, Alexandria Engineering Journal, Journal of Porous Media, International Journal of Applied and Computational Mathematics, Journal of Advanced Research, American Society of Mechanical Engineers (ASME) journals including Heat transfer, International Journal of Green Energy, International Journal of Energy Research and Nuclear Engineering and Design.
- Reviewer for IHTC14, the 14th ASME International Heat Transfer Conference to be held in Washington DC in August, 2010.
- Reviewer for IMETI 2010, The 3rd International Multi-Conference on Engineering and Technological Innovation: June 29th - July 2nd, 2010 – Orlando, Florida, USA
- Reviewer for IHTC14-2010, The 14th International Heat Transfer Conference: August 8th -13th, 2010 – Washington D.C., USA.
- Reviewer for IMETI 2011, The 4th International Multi-Conference on. Engineering and Technological Innovation: *IMETI 2011*. July 19th - July 22nd, 2011 – Orlando, Florida, USA
- Reviewer for 1st International Conference on Nanostructures and Nanomaterial: Science and Application Nanotech2012, February 7-9, 2012
- **Invited Keynote Speaker** at the 1st International Conference on Nanostructures and Nanomaterial: Science and Application Nanotech2012, February 7-9, 2012, Masjed-Soleyman, Iran.
- Section chair at 1st International Conference on Nanostructures and Nanomaterial: Science and Application Nanotech2012, February 7-9, 2012, Masjed-Soleyman, Iran.
- Reviewer for SASEC-2012, ASME 2012, The 2nd Southern African Solar Energy Conference, 21-23 May 2012, Stellenbosch, South Africa.
- Technical Program Committee Member for The International Workshop on Electromagnetism and Communication Engineering (ECE 2012), July 27th -29th, 2012, Baotou, China.
- Technical Program Committee Member at 2012 The 3rd International Conference on Mechanic Automation and Control Engineering (MACE 2012), July 27th -29th, 2012, Baotou, Inner Mongolia, China.
- Guest Editor for selected papers of the 3rd International Conference on Mechanic Automation and Control Engineering (MACE 2012) in order to publish as the special issues of international journals.
- Reviewer for IMETI 2012, The 5th International Multi-Conference on. Engineering and Technological Innovation: IMETI 2012. July 17th - July 20th, 2012 – Orlando, Florida, USA.
- Reviewer for IMECE2012, ASME 2012 International Mechanical Engineering Congress & Exposition, IMECE 2012, November 9-15, 2012, Houston, Texas, USA.

- Jury member for poster section of the 3rd International Conference on Composites: Characterization, Fabrication and Application (CCFA-3) December 18-19, 2012. Tehran, Iran.
- Reviewer for ICAE 2013, International Conference on Applied Energy ICAE 2013, Jul 1-4, 2013, Pretoria, South Africa.
- Technical program committee member for HEFAT2014 (10th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics) July 14-16, 2014, Orlando, Florida, USA.
- Reviewer for HEFAT2014 (10th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics) July 14-16, 2014, Orlando, Florida, USA.
- Reviewer for SASEC (3<sup>rd</sup> Southern African Solar Energy Conference) May 11-13, 2015, Kruger National Park, South Africa.
- Conference Organising Committee member for SASEC (3<sup>rd</sup> Southern African Solar Energy Conference) May 11-13, 2015, Kruger National Park, South Africa.
- Section chair at the 4th International Conference on Composites: Characterization, Fabrication and Application (CCFA-4) December 16-17, 2014. Tehran, Iran.
- Jury member for poster competition section of the 4th International Conference on Composites: Characterization, Fabrication and Application (CCFA-4) December 16-17, 2014. Tehran, Iran.
- Reviewer for an academic book entitled “Heat Transfer Enhancement with Nanofluids”, CRC press, by Taylor & Francis Group, 2015.
- Technical program committee member for HEFAT2015 (11th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics), July 20-23, 2015, Kruger National Park, South Africa.
- Session chair for HEFAT2015 (11th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics), July 20-23, 2015, Kruger National Park, South Africa.
- International technical program committee member for “Energy, Material & Nanotechnology International Meeting on Microfluidics and Nanofluidics”, April 05-08, 2016, Dubai, United Arab Emirates.
- **Invited speaker** at “7th World Nano Conference”, at Track of: Nano Applications, June 20-21, 2016, Cape Town, South Africa.
- International technical program committee member for “2<sup>nd</sup> International Conference on Environmental and Civil Engineering Technology (ENVICET 2016), October 4 – 6, 2016, Penang, Malaysia.
- Technical program committee member for HEFAT2016 (12<sup>th</sup> International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics), July 11-13, 2016, Malaga, Spain.
- Reviewer and technical program committee member for “22<sup>nd</sup> Solar Power and Chemical Energy System Conference (SolarPACES 2016)”, 11 - 14 October 2016, Abu Dhabi, UAE.
- Designated Reviewer for AR4MET 2017, The 3<sup>rd</sup> Advanced Research in Material Sciences, Manufacturing, Mechanical and Mechatronic Engineering Technology International Conference, 7 – 9 November 2017, Melaka, Malaysia.
- Technical program committee member for HEFAT2017 (13<sup>th</sup> International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics), 17 -19 July 2017, Portorož, Slovenia.

- Chairperson of conference oral presentations session “Nano and Microscale Transport-2 (NMT2), 16th International Heat Transfer Conference, China National Convention Center, Beijing, China, August 10-15, 2018.
- Organizing Committee Member for symposium of “14th World Conference on Applied science, Engineering and Technology” (14th WCASET-18) on 21st-22nd November 2018, Kuala Lumpur, Malaysia.
- **Invited Keynote Speaker (opening ceremony)** for 1st International Conference on Nanofluids (ICNf) and the 2nd European Symposium on Nanofluids (ESNf), Castelo, Spain, June 26th-28th, 2019.  
<http://icnf2019.com/index.php/program/confirmed-plenary-lectures>
- International Committee Member for 5th International Conference on Mechanical Engineering Research (ICMER 2019), Kuantan, Pahang, Malaysia, 30th to 31st of July, 2019.
- Advisory committee member for the First International Conference on Emerging Trends in Industry 4.0 (ETI 4.0) will be conducted in OP Jindal University, Raigarh, India during 19th to 21st May 2021.  
<http://www.conference.opju.ac.in/IEEE/advisory-committee.php>
- International TPC Member for the 2nd International Conference on Physics, Mechanics and Mathematical Science (PMMS 2021), November 20-21, 2021 at Optics Valley Kingdom Plaza in Wuhan, China.  
<http://www.pmms2021.com/page/Committee/>

### **Workshop and short courses presented**

- Mohsen Sharifpur, Airflow measurement, Airflow dynamics & Ventilation, As apart of workshop of: Building Design & Engineering Approaches to Infection Control Course, August 2016.
- Mohsen Sharifpur (UP) and Reza Azizian (MIT), One-day Nanofluids Workshop, University of Science and Culture, Iran, 29 Dec. 2016.
- Mohsen Sharifpur, Airflow measurement, Airflow dynamics & Ventilation, As apart of workshop of: Building Design & Engineering Approaches to Infection Control Course, August 2017.
- Mohsen Sharifpur, Two days Workshop on THERMAL FLUID SYSTEMS, Johannesburg, South Africa, May 10th and 11<sup>th</sup>, 2018.
- Mohsen Sharifpur, Airflow measurement, Airflow dynamics & Ventilation, As apart of workshop of: Building Design & Engineering Approaches to Infection Control Course, August 2018.
- Mohsen Sharifpur, Airflow measurement, Airflow dynamics & Ventilation, As apart of online workshop of: Building Design & Engineering Approaches to Infection Control Course, Sept. 2020.

### **Teamwork and collaboration with others**

- Member of the research group entitled “Thermofluids Research Group” in the Department of Mechanical and Aeronautical Engineering at University of Pretoria, South Africa, since Dec. 2009.
- Member of the research group entitled “Evaluation of thermal properties of nanofluids” in the Mech. Eng. Dep. at EMU University 2007-2009.
- Speaker for postgraduate students, Nanofluids and the Opportunities, Tarbiyat Modares University, January 2013.
- Speaker for postgraduate students (Civil Engineering), Some Applications of Thermal Fluid Science to Civil Engineering, Science and Culture University, January 2013.
- Member of South Africa Solar Thermal Technology Platform (STTP), working Group 3: Solar Heat for Industrial Applications.

- Reviewer of applications for international scholarships for South Africans to study abroad in 2018, facilitated by The Department of Higher Education and Training (DHET) of South Africa.

### **Membership of national and international bodies**

- Member in the American Society of Mechanical Engineers (ASME) since 2004.
- Member in the International Institute of Informatics and Systemic (IIIS) since March 2008
- Registered as profession engineer at ECSA (Pr. Eng.)

## **MANAGEMENT AND ADMINISTRATIVE DUTIES (LEADERSHIP)**

### **Involvement in departmental activities (e.g. administrative functions), faculty (e.g. faculty committees) or other university activities**

- Organizer of the Fluid Mechanics Laboratory in the Mech. Eng. Dep. at EMU (2004-2009)
- Preparing the CFD division of Mech. Eng. Dep. (EMU) multi project for submitting in European Union (EU), March 2005.
- Head of the group of “Design of Experiment (DOE)” for all of the Laboratories of Mech. Eng. Dep. at EMU (2006-2007).
- **Establisher and Head for Nanofluids Research Laboratory in the Department of Mechanical and Aeronautical Engineering at University of Pretoria Since April 2010.**
- Responsible for workshop/training of CFD software packages (ANSYS-FLUENT, STAR CCM+ and FLoEFD) in the Department of Mechanical and Aeronautical Engineering at University of Pretoria Since January 2012.
- Responsible for allocation of Teaching Assistants (TAs) to the courses presented by Thermal-fluid division of the Department of Mechanical and Aeronautical Engineering at University of Pretoria Since 2016.
- **Member of Departmental Management Committee** for Department of Mechanical and Aeronautical Engineering at University of Pretoria Since 2018.