

Muhammad Sajid

Associate Professor
School of Mechanical & Manufacturing Engineering

Email: m.sajid@smme.nust.edu.pk
Contact: 0512601013
LinkedIn: <https://www.linkedin.com/in/drsajid/>



About

Dr. Muhammad Sajid is working as Associate Professor in the School of Mechanical & Manufacturing Engineering. Dr. Muhammad Sajid has a PhD in Fluid Mechanics. Dr. Muhammad Sajid has published 58 research articles & conference papers having a citation count of 765, carried out 2 projects and filed 0 intellectual property.

Qualifications

PhD in Fluid Mechanics Université de Cergy-Pontoise , France	2006 - 2010
MS in Aerodynamics, Aeroacoustics And Energetics Ecole Nationale Supérieure d'Arts et Métiers de Paris , France	2005 - 2006
BE in Mechanical NUST, Islamabad , Pakistan	2000 - 2004

Experience

Associate Professor School of Mechanical & Manufacturing Engineering	2024- Present
Associate Professor School of Mechanical & Manufacturing Engineering	2021 - 2012
Assistant Professor School of Mechanical & Manufacturing Engineering	2012 - 2021
Assistant Professor School of Mechanical & Manufacturing Engineering	2012 - 2011
Assistant Professor School of Mechanical & Manufacturing Engineering	2011 - 2021
Postdoctoral Research Fellow Texas A&M University Qatar , Education City, Doha, Qatar	2015 - 2016
Assistant Manager AERO , Wah Cantt	2004 - 2005

Awards

School / College Best Researcher Awards-2021	2022
Best Teacher Best Teacher at SMME awarded for academic year 2017-18.	

Research Projects

National Projects

Development of low cost micro analytical device for cell sorting	2020
Funding Agency: HEC	
Amount: PKR 10,538,991.00	
Status: Completed	
A Cold Side Thermal Management Study Of Solar Photovoltaic Cells	2019
Funding Agency: HEC	
Amount: PKR 10,830,000.00	
Status: Completed	

International Projects

Research Articles

Performance enhancement of a shell-and-tube heat exchanger using a novel baffle design	2025
Syed Maaz Hasan Saeed Iqbal Ibrahim Khan Ali Javaid Muhammad Sajid	
Case Studies in Thermal Engineering, Volume 74, Article Number 106800	
Impact Factor: 6.400 Quartile: 1	
DOI: https://doi.org/10.1016/j.csite.2025.106800	
Condition Monitoring of Photovoltaic Panels Through Electrical Impedance Spectroscopy and Machine Learning Focusing on Temperature, Dust, and Microcracks	2025
Saeed Iqbal Syed Maaz Hasan Yasar Ayaz Emad Ud Din Adeel Waqas Ahmad Muhammad Sajid	
IEEE Access , Volume:13, Pages 53039-53052	
Impact Factor: 3.400 Quartile: 2	
DOI: https://doi.org/10.1109/access.2025.3550738	
Experimental Investigation of Particle Sorting in Y-Channels with Variable Bifurcation Angles for Microfluidic Applications	2024
Khola Ikram Syed Maaz Hasan Ch Abdullah Muhammad Zulfiqar Emad Ud Din Zaib Ali Muhammad Sajid	
Journal of Applied Science and Engineering, Volume 28, No 8, Pages 1679-1687	
Impact Factor: 1.100 Quartile: 3 Citations: 1	
DOI: https://doi.org/10.6180/jase.202508_28(8).0006	
An experimental investigation on the novel hybrid indirect direct evaporative cooling system	2024
Ibrahim Khan Waqas Khalid Hafiz Muhammad Ali Muhammad Sajid Zaib Ali Majid Ali	
International Communications in Heat and Mass Transfer, Volume 155, Article Number 107503	
Impact Factor: 6.400 Quartile: 1 Citations: 16	
DOI: https://doi.org/10.1016/j.icheatmasstransfer.2024.107503	
Experimental investigation of eutectic PCM incorporated clay brick for thermal management of building envelope	2024
Samad Ali Taj Waqas Khalid Hassan Nazir Aamir Khan Muhammad Sajid Adeel Waqas Arsalan Hussain Majid Ali Sheikh Ahmad Zaki	
Journal of Energy Storage, Volume 84, Part A, Article Number 110838	
Impact Factor: 8.900 Quartile: 1 Citations: 16	
DOI: https://doi.org/10.1016/j.est.2024.110838	
Sustainable urban energy solutions: Forecasting energy production for hybrid solar-wind systems	2024
Ali Javaid Muhammad Sajid Emad Uddin Adeel Waqas Yasar Ayaz	
Energy Conversion and Management, Volume 302, Article Number 118120	
Impact Factor: 10.4 Quartile: 1 Citations: 40	
DOI: https://doi.org/10.1016/j.enconman.2024.118120	
Energy modeling and predictive control of environmental quality for building energy management using machine learning	2023
Muhammad Faizan Faiz Muhammad Sajid Sara Baber Sial Kashif Javed Yasar Ayaz	
Energy for Sustainable Development, Volume 74, Pages 381-395	
Impact Factor: 5.655 Quartile: 2 Citations: 19	
DOI: https://doi.org/10.1016/j.esd.2023.04.017	
Techno-Economic Analysis of Vacuum Membrane Distillation for Seawater Desalination	2023
Hassaan Idrees Sara Baber Sial Muhammad Sajid Muhammad Rashid Fahad Iqbal Khawaja Zaib Ali Muhammad Nabeel Anwar	

<i>Membranes</i> , Volume 13, Issue 3, Article Number 339	
Impact Factor: 4.562 Quartile: 1 Citations: 8	
DOI: https://doi.org/10.3390/membranes13030339	
Forecasting Hydrogen Production from Wind Energy in a Suburban Environment Using Machine Learning	2022
<i>Ali Javaid Umer Javaid Muhammad Sajid Muhammad Rashid Emad Uddin Yasar Ayaz Adeel Waqas Energies</i> , Volume 15, Issue 23, Article Number 8901	
Impact Factor: 3.252 Quartile: 3 Citations: 40	
DOI: https://doi.org/10.3390/en15238901	
Assessment of solar load models for bifacial PV panels	2022
<i>Bushra Rasheed Asmara Safdar Muhammad Sajid Sara Baber Sial Yasar Ayaz Frontiers in Energy Research</i> , Volume 10, Article Number 1019595	
Impact Factor: 3.858 Quartile: 3 Citations: 6	
DOI: https://doi.org/10.3389/fenrg.2022.1019595	
Numerical analysis of permeate flux in reverse osmosis by varying strand geometry	2022
<i>Gohar Shoukat Hassaan Idrees Muhammad Sajid Sara Baber Sial Yasar Ayaz Raheel Nawaz A. R. Ansari Scientific Reports</i> , Volume 12, Issue 1, Article Number 16636	
Impact Factor: 4.996 Quartile: 2 Citations: 3	
DOI: https://doi.org/10.1038/s41598-022-20469-0	
Deep learning and statistical methods for short- and long-term solar irradiance forecasting for Islamabad	2022
<i>Syed Altan Haider Muhammad Sajid Hassan Sajid Emad Ud Din Yasar Ayaz Renewable Energy</i> , Volume 198, Pages 51-60	
Impact Factor: 8.634 Quartile: 1 Citations: 85	
DOI: https://doi.org/10.1016/j.renene.2022.07.136	
Impact and performance efficiency analysis of grid-tied solar photovoltaic system based on installation site environmental factors	2022
<i>Shahid Nawaz Khan Muhammad Sajid Saeed Iqbal Muhammad Jawad Khan Yasar Ayaz Adeel Waqas Ahmad Energy and Environment</i> , Pages 1-21	
Impact Factor: 3.154 Quartile: 3 Citations: 14	
DOI: https://doi.org/10.1177/0958305X221106618	
Modelling the cooling effectiveness of street trees with actual canopy drag and real transpiration rate under representative climatic conditions	2022
<i>Muhammad Zeeshan Zaib Ali Muhammad Sajid Majid Ali Muhammad Usman Journal of Building Performance Simulation</i> , Pages 1-14	
Impact Factor: 2.957 Quartile: 2 Citations: 10	
DOI: https://doi.org/10.1080/19401493.2022.2080865	
Numerical investigation of the effect of spanwise length and mesh density on flow around cylinder at Re = 3900 using LES model	2022
<i>Haider Ali Niaz Bahadur Khan Muhammad Jameel Azam Khan Muhammad Sajid Adnan Munir A. El-Sayed Ahmed Khalid Abdulkhalik M. Alharbi Ahmed M. Galal PLoS One</i> , Volume 17(4), Article Number e0266065	
Impact Factor: 3.240 Quartile: 2 Citations: 6	
DOI: 10.1371/journal.pone.0266065	
Development of a truncated ellipsoidal reflector-based metal halide lamp solar simulator for characterization of photovoltaic cells	2021
<i>Muhammad Abdullah Haroon Shah Hamza Butt Muaaz Farooq Muhammad Nouman Ihsan Muhammad Sajid Emad Uddin Energy Sources, Part A: Recovery, Utilization, and Environmental Effects</i> , Volume 43, No. 20, Pages 2554–2568	
Impact Factor: 3.447 Quartile: 2 Citations: 5	
DOI: 10.1080/15567036.2020.1842557	
An Experimental Trial: Multi-Robot Therapy for Categorization of Autism Level Using Hidden Markov Model	2021
<i>Sara Baber Sial Faisal Mehmood Yasar Ayaz Muhammad Sajid Haleema Sadia Raheel Nawaz Journal of Educational Computing Research</i> , Pages 1-20	
Impact Factor: 4.345 Quartile: 1 Citations: 6	
DOI: https://doi.org/10.1177/07356331211040405	

Sustainability of Project-Based Learning by Incorporating Transdisciplinary Design in Fabrication of Hydraulic Robot Arm <i>Taha Farid Sara Baber Sial Muhammad Sajid Khalid Akhtar</i> <i>Sustainability</i> , Volume 13(14), Article Number 7949 Impact Factor: 3.889 Quartile: 3 Citations: 5 DOI: https://doi.org/10.3390/su13147949	2021
Numerical Analysis of Heat Transfer and Pressure Drop in Helically Micro-Finned Tubes <i>Muhammad Ammar Ali Muhammad Sajid Emad Uddin Niaz Bahadur Khan Zaib Ali</i> <i>Processes</i> , Volume 9, Article Number 754 Impact Factor: 2.753 Quartile: 2 Citations: 7 DOI: https://doi.org/10.3390/pr9050754	2021
Experimental electro-hydrodynamic investigation of flag-based energy harvesting in the wake of inverted C-shape cylinder <i>Usman Latif Emad Uddin Muhammad Yamin Younis Jawad Aslam Zaib Ali Muhammad Sajid A. Abdelkafi</i> <i>Energy</i> , Volume 215, Part B, Article Number 119195 Impact Factor: 8.857 Quartile: 1 Citations: 46 DOI: https://doi.org/10.1016/j.energy.2020.119195	2021
Hydrodynamic energy harvesting analysis of two piezoelectric tandem flags under influence of upstream body's wakes <i>Ahmad Mujtaba Usman Latif Emad Uddin Muhammad Yamin Younis Muhammad Sajid Zaib Ali A. Abdelkafi</i> <i>Applied Energy</i> , Volume 282, Part A, Article Number 116173 Impact Factor: 11.446 Quartile: 1 Citations: 41 DOI: https://doi.org/10.1016/j.apenergy.2020.116173	2021
Forecasting hydrogen production potential in islamabad from solar energy using water electrolysis <i>Syed Altan Haider Muhammad Sajid Saeed Iqbal</i> <i>International Journal of Hydrogen Energy</i> , Volume 46, Issue 2, Pages 1671-1681 Impact Factor: 7.139 Quartile: 2 Citations: 64 DOI: https://doi.org/10.1016/j.ijhydene.2020.10.059	2021
Numerical investigation of hydrodynamic and hydro-acoustic performance of underwater propeller operating in off-design flow conditions <i>Muhammad Rehan Naseer Emad Uddin Aamir Mubashar Muhammad Sajid Zaib Ali Khalid Akhtar</i> <i>Journal of Marine Engineering and Technology</i> , Pages 1-10 Impact Factor: 3.192 Quartile: 1 Citations: 4 DOI: https://doi.org/10.1080/20464177.2020.1865250	2020
Prediction of Drag Force on Vehicles in a Platoon Configuration Using Machine Learning <i>Farwa Jaffar Taha Farid Muhammad Sajid Yasar Ayaz Muhammad Jawad Khan</i> <i>IEEE Access</i> , Volume 8, Pages 201823-201834 Impact Factor: 3.367 Quartile: 2 Citations: 32 DOI: 10.1109/ACCESS.2020.3035318	2020
Analysis of the effect of passive measures on the energy consumption and zero-energy prospects of residential buildings in Pakistan <i>Muhammad Sajid Zaib Ali Emad Uddin Muhammad Wasim Anwar Abdullah Javed</i> <i>Building Simulation</i> , Pages 1-18 Impact Factor: 3.751 Quartile: 1 Citations: 22 DOI: https://doi.org/10.1007/s12273-020-0729-8	2020
Investigation of Heat Transfer and Pressure Drop in Microchannel Heat Sink Using Al₂O₃ and ZrO₂ Nanofluids <i>Muhammad Zia Ullah Khan Emad Uddin Bilal Akbar Naveed Akram Ali Ammar Naqvi Muhammad Sajid Zaib Ali Muhammad Yamin Younis Fausto Pedro García Márquez</i> <i>Nanomaterials</i> , Volume 10(9), Article Number 1796 Impact Factor: 5.076 Quartile: 1 Citations: 22 DOI: https://doi.org/10.3390/nano10091796	2020
Experimental investigation of energy harvesting eel in the wake of bluff body under ocean waves <i>Usman Latif Ehtisham Ali Emad Uddin Zaib Ali Muhammad Sajid Samiur Rahman Shah Muhammad Yamin Younis</i> <i>Proceedings of the Institution of Mechanical Engineers, Part M: Journal of Engineering for the Maritime Environment</i> , Pages 1-12 Impact Factor: 1.389 Quartile: 3 Citations: 14	2020

DOI: 10.1177/1475090220949334

- Investigation of Zero Moment Point in a Partially Filled Liquid Vessel Subjected to Roll Motion** 2020
Muhammad Usman Muhammad Sajid Emad Uddin Yasar Ayaz
Applied Sciences , Volume 10, Issue 11, Article Number 3992
Impact Factor: 2.679 | **Quartile:** 2 | **Citations:** 4
DOI: <https://doi.org/10.3390/app10113992>
- Experimental investigation of energy harvesting behind a bluff body** 2020
Usman Latif Emad Uddin Chaudhary Abdullah Zaib Ali Muhammad Sajid Khalid Akhtar Samiur Rehman Shah
Journal of Renewable and Sustainable Energy , Volume 12, Issue 3, Article Number:033301
Impact Factor: 2.219 | **Quartile:** 4 | **Citations:** 17
DOI: <https://doi.org/10.1063/1.5144347>
- Effect of vortices on power output of vertical axis wind turbine (VAWT)** 2020
Ammar Naseem Emad Uddin Zaib Ali Jawad Aslam Sami Ur Rahman Shah Muhammad Sajid Syed Ali Abbas Zaidi Adeel Javed Muhammad Yamin Younis
Sustainable Energy Technologies and Assessments , Volume 37, Article Number 100586
Impact Factor: 5.353 | **Quartile:** 2 | **Citations:** 32
DOI: <https://doi.org/10.1016/j.seta.2019.100586>
- Numerical investigation of surface acoustic wave (SAW) interacting with a droplet for point-of-care devices** 2019
Imran Shah Emad Uddin Aamir Mubashar Muhammad Sajid Muhammad Yamin Younis Hudair Samad Kyung Hyun Choi
International Journal of Acoustics and Vibrations , Volume: 24, Issue: 4, Pages 632-637
Impact Factor: 0.729 | **Quartile:** 4 | **Citations:** 4
DOI: DOI: 10.20855/ijav.2019.24.41312
- Assessment of biofilm formation by pseudomonas aeruginosa and hydrodynamic evaluation of microtiter plate assay** 2019
Abdus Samad Muhammad Sajid Amir Afzal Khan Rabaab Zahra
JOURNAL OF THE PAKISTAN MEDICAL ASSOCIATION , Volume 69, Issue 5, Pages 666-671
Impact Factor: 0.573 | **Quartile:** 4
- Detection and tracking of bubbles in two phase air water flow for non convergent sinusoidal channel** 2019
Syed Omer Gilani Muhammad Sajid Altaf-ur-Rahman Emad Uddin Ibrahim Hassan
IET Image Processing , Volume: 13 , Issue: 4 , Pages 692 - 697
Impact Factor: 1.995 | **Quartile:** 3 | **Citations:** 1
DOI: 10.1049/iet-ipr.2018.5684
- Role of Intracellular Adhesion icaAD and agr genes in Biofilm Formation in Clinical S. aureus Isolates and Assessment of Two Phenotypic Methods** 2018
Muhammad Sajid Tayyeba Saba Amir Afzal Khan Rabaab Zahra
Pakistan Journal of Medical Sciences , Vol:34, No: 03, Pages:633-637.
Impact Factor: 0.834 | **Quartile:** 4 | **Citations:** 10
DOI: 10.12669/pjms.343.14530
- Experimental and numerical investigation of the energy harvesting flexible flag in the wake of a bluff body** 2018
Usman Latif Chaudary Abdullah Emad Uddin M. Yamin Younis Sami Ur Rahman Shah Aamir Mubasha Muhamad Sajid
Wind and Structures , Volume: 26, Issue: 05, Pages.279-292
Impact Factor: 1.256 | **Quartile:** 3 | **Citations:** 15
DOI: <https://doi.org/10.12989/was.2018.26.5.279>
- An overview of cooling of thermoelectric devices** 2017
Muhammad Sajid Ibrahim Hassan Aziz Rahman
Renewable and Sustainable Energy Reviews , Volume: 78 Pages: 15-22
Impact Factor: 9.184 | **Quartile:** 1 | **Citations:** 123
DOI: 10.1016/j.rser.2017.04.098
- The effect of the inject pressure on the distilled water by vacuum heat pump** 2016
Muhammad Sajid Liu Bin Li Qinqin Zhou Zhiyong
Desalination , Volume 399, Pages 29-33
Impact Factor: 5.527 | **Quartile:** 1 | **Citations:** 1
DOI: 10.1016/j.desal.2016.07.040
- A Numerical Study of Decoupled Bubble Dynamics in Nucleate Boiling** 2009

Conference Proceedings

Human Robot Interaction: Identifying Resembling Emotions Using Dynamic Body Gestures of Robot <i>Sara Ali Faisal Mehmood Khawaja Fahad Iqbal Yasar Ayaz Muhammad Sajid Muhammad Babar Sial Muhammad Faiq Malik Kashif Javed</i> <i>2023 3rd International Conference on Artificial Intelligence (ICAI), res.country(177,)</i> Citations: N/A DOI: 10.1109/ICAI58407.2023.10136649	2023
Image Classification for Project-based Learning to Differentiate Diagrams and Figures <i>Asmara Safdar Sara Ali Muhammad Sajid Umer Asgher Yasar Ayaz</i> <i>International Conference on Applied Human Factors and Ergonomics and the Affiliated Conferences, res.country(233,)</i> Citations: N/A DOI: http://doi.org/10.54941/ahfe1001597	2022
Novel Approach for Sensing the Humanoid Hand Finger Position Using Non-contact TMR Sensor <i>Saeed Iqbal Shahid Nawaz Khan Muhammad Sajid Sara Ali Khawaja Fahad Iqbal Umer Asgher Yasar Ayaz</i> <i>International Conference on Applied Human Factors and Ergonomics (AHFE) 2022, res.country(233,)</i> Citations: N/A DOI: http://doi.org/10.54941/ahfe1001599	2022
Personality Prediction in Human-Robot-Interaction (HRI) <i>Anum Jaffer Sara Ali Khawaja Fahad Iqbal Yasar Ayaz Muhammad Sajid Umer Asgher</i> <i>International Conference on Applied Human Factors and Ergonomics (AHFE) 2022, res.country(233,)</i> Citations: N/A DOI: http://doi.org/10.54941/ahfe1001601	2022
Smooth Gait Generation for Quadrupedal Robots Based on Genetic Algorithm Optimization <i>Zainullah Khan Farhat Naseer Khawaja Fahad Iqbal Sara Ali Yasar Ayaz Muhammad Sajid</i> <i>2022 2nd International Conference on Artificial Intelligence (ICAI), res.country(177,)</i> Citations: N/A DOI: 10.1109/ICAI55435.2022.9773617	2022
A Review on Different Approaches for Assessing Student Attentiveness in Classroom using Behavioural Elements <i>Kainat Sara Ali Khawaja Fahad Iqbal Yasar Ayaz Muhammad Sajid</i> <i>2022 2nd International Conference on Artificial Intelligence (ICAI), res.country(177,)</i> Citations: 2 DOI: 10.1109/ICAI55435.2022.9773418	2022
A Methodology for Integrating Project Based Learning Outcomes and Attributes via Questionnaire <i>Sara Babar Muhammad Sajid Yasar Ayaz Umer Asgher</i> <i>Advances in Intelligent Systems and Computing, res.country(233,)</i> Citations: 1 DOI: 10.1007/978-3-030-51041-1_49	2020
Mathematical Modeling and Optimization of Downdraft Gasifiers Using Artificial Neural Networks (ANN) and Stochastic Programming Techniques <i>Umer Asgher Jose Arzola Ruiz E. R. Gutiérrez-Gualotuña Yasar Ayaz Muhammad Sajid Khurram Khalil Sara Babar</i> <i>Advances in Intelligent Systems and Computing, res.country(233,)</i> Citations: N/A DOI: 10.1007/978-3-030-51041-1_50	2020
Organizational Socialization: An Important Factor for Knowledge Creation in Knowledge Based Industrial Organizations and Enterprises <i>Khurram Khalil Umer Asgher Mahmoona Khalil Umer Asgher Kausar Khawaja Yasar Ayaz Salman Nazi Noriyuki Oka Jose Arzola Ruiz Muhammad Sajid</i> <i>Conferences on Neuroergonomics and Cognitive Engineering, and Industrial Cognitive Ergonomics and Engineering Psychology, 2020, res.country(233,)</i> Citations: 1 DOI: DOI: 10.1007/978-3-030-51041-1_59	2020

A Methodology for Assessment of Thermal Comfort, Ergonomic and Human Factors Effect on Learning Performance in Classroom Environment <i>Waqas Khalid Nosheen Anwar Muhammad Sajid Shahid Ikram Ullah Butt</i> <i>HFE Virtual Conferences on Neuroergonomics and Cognitive Engineering, and Industrial Cognitive Ergonomics and Engineering Psychology, 2020,</i> <i>res.country(233,)</i> Citations: N/A DOI: https://doi.org/10.1007/978-3-030-51041-1_58	2020
Multi-level Optimization of Reactive Power Compensation in Industrial Nets with Heuristic Modelling Techniques <i>Yasar Ayaz Muhammad Sajid Sara Ali Umer Asgher Jose Arzola Ruiz Khurram Khalil</i> <i>AHFE Virtual Conferences on Neuroergonomics and Cognitive Engineering, and Industrial Cognitive Ergonomics and Engineering Psychology, 2020,</i> <i>res.country(233,)</i> Citations: N/A DOI: 10.1007/978-3-030-51041-1_57	2020
Cognitive Computing for Human-Machine Interaction: An IBM Watson Implementation <i>Yasar Ayaz Sara Ali Muhammad Sajid Khurram Khalil Umer Asgher Riaz Ahmad Jose Arzola Ruiz Noriyuki Oka</i> <i>International Conference on Applied Human Factors and Ergonomics, res.country(233,)</i> Citations: 5 DOI: 10.1007/978-3-030-51041-1_53	2020
COMPUTATIONAL EVALUATION OF STABILITY IN SLOSH DYNAMICS OF TANK VEHICLES USING ZERO MOMENT POINT <i>Muhammad Usman Muhammad Sajid</i> <i>ASME JSME KSME Joint Fluids Engineering Conference (AJK FLUIDS 2019), res.country(233,)</i> Citations: 1 DOI: 10.1115/AJKFluids2019-5611	2019
HYDRODYNAMIC EVALUATION OF MICROTITER PLATE ASSAY USING COMPUTATIONAL FLUID DYNAMICS FOR BIOFILM FORMATION <i>Rabaab Zahra Amir A. Khan Muhammad Sajid</i> <i>ASME JSME KSME Joint Fluids Engineering Conference (AJK FLUIDS 2019), res.country(233,)</i> Citations: 1 DOI: 10.1115/AJKFluids2019-5425	2019
MODELING AND CFD ANALYSES OF GEAR PUMP IN OPENFOAM <i>Gohar Shoukat Kamran Siddique Muhammad Sajid</i> <i>ASME JSME KSME Joint Fluids Engineering Conference (AJK FLUIDS 2019), res.country(233,)</i> Citations: 1 DOI: 10.1115/AJKFluids2019-5435	2019
AN EVALUATION OF OPEN SOURCE CFD FOR STUDY OF AERODYNAMICS OF VEHICLE PLATOONING <i>Taha Farid Abdur Rahman Shakeel Muhammad Sajid</i> <i>ASME-JSME-KSME 2019 8th Joint Fluids Engineering Conference, res.country(233,)</i> Citations: 1 DOI: 10.1115/AJKFluids2019-5130	2019
AN INTEGRATED APPROACH FOR THE TEACHING OF PIPE NETWORK ANALYSIS USING PROJECT BASED LEARNING <i>I. Ibrahim M. W. B. Khalid Gohar Shoukat Muhammad Sajid</i> <i>ASME 5th Joint US-European Fluids Engineering Division Summer Meeting, res.country(38,)</i> Citations: 2 DOI: 10.1115/FEDSM2018-83382	2018
Numerical Analysis of Alternating Strand Diameter in Spiral Wound Membrane to Maximize Permeate Flux <i>G. Shoukat M. Sajid Emad Uddin Z. Ali</i> <i>ASME 2018 5th Joint US-European Fluids Engineering Division Summer Meeting, res.country(38,)</i> Citations: 1 DOI: 10.1115/FEDSM2018-83368	2018
Experimental and numerical investigation of the energy harvesting flexible flag in the wake of a bluff body	2017

Chaudary Abdullah Emad Uddin Aamir Mubashar Muhammad Sajid Samiur Rehman Shah M. Yamin Younis
2017 World Congress on Advances in Structural Engineering and Mechanics (ASEM17), Seoul, South Korea res.country(121,)

Citations: 10

DOI: 10.12989/was.2018.26.5.279

Book Chapters

Distilled Water Production by Vacuum Heat Pump

2018

Liu Bin Cai Ling Li Tianyin Muhammad Sajid

In: *Book on Desalination and Water Treatment*, Chapter 5, Pages 77-92

Citations: N/A

DOI: <http://dx.doi.org/10.5772/intechopen.76839>