

# Kahar Osman

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

203  
citations

1307594

7  
h-index

1281871

11  
g-index

69  
all docs

69  
docs citations

69  
times ranked

230  
citing authors

#	ARTICLE	IF	CITATIONS
1	THE IMPACT OF THE NUMBER OF TEARS IN PATIENT-SPECIFIC STANFORD TYPE B AORTIC DISSECTING ANEURYSM: CFD SIMULATION. <i>Journal of Mechanics in Medicine and Biology</i> , 2014, 14, 1450017.	0.7	27
2	Computational Simulation of Boil-Off Gas Formation inside Liquefied Natural Gas Tank Using Evaporation Model in ANSYS Fluent. <i>Applied Mechanics and Materials</i> , 0, 393, 839-844.	0.2	26
3	Dynamic modeling of stratification for chilled water storage tank. <i>Energy Conversion and Management</i> , 2008, 49, 3270-3273.	9.2	22
4	Boil-Off Gas Formation inside Large Scale Liquefied Natural Gas (LNG) Tank Based on Specific Parameters. <i>Applied Mechanics and Materials</i> , 0, 229-231, 690-694.	0.2	18
5	Comparative analysis of realistic CT-scan and simplified human airway models in airflow simulation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 48-56.	1.6	12
6	Renewable Energy from Induced Airflow Generated by Cruising Ground Vehicles in Tandem using RANS. <i>Energy Procedia</i> , 2012, 14, 1877-1882.	1.8	11
7	Greenhouse Gas Reduction by Utilization of Cold LNG Boil-off Gas. <i>Procedia Engineering</i> , 2013, 53, 645-649.	1.2	10
8	Parametric Analysis on Boil-Off Gas Rate inside Liquefied Natural Gas Storage Tank. <i>Journal of Mechanical Engineering and Sciences</i> , 2014, 6, 845-853.	0.6	8
9	Modification of Aortic Cannula With an Inlet Chamber to Induce Spiral Flow and Improve Outlet Flow. <i>Artificial Organs</i> , 2018, 42, 493-499.	1.9	7
10	Prediction on Behaviour of Blood Velocity and Mitral Leaflet Displacement in the Different Shapes of Heart Valve during Cardiac Cycle. <i>Journal of Biomimetics, Biomaterials, and Tissue Engineering</i> , 0, 17, 79-85.	0.7	5
11	Analysis of blood flow into the main artery via mitral valve: Fluid structure interaction model. , 2010, , ,		4
12	CD80 Insights as Therapeutic Target in the Current and Future Treatment Options of Frequent-Relapse Minimal Change Disease. <i>BioMed Research International</i> , 2021, 2021, 1-17.	1.9	4
13	Coal Type, Temperature and Gasifying Agent Effects on Low-Rank Coal Gasification Using CFD Method. <i>CFD Letters</i> , 2020, 12, 111-127.	0.8	4
14	THE EFFECT OF DIFFERENT LOCATIONS OF TRACHEAL STENOSIS TO THE FLOW CHARACTERISTICS USING RECONSTRUCTED CT-SCANNED IMAGE. <i>Journal of Mechanics in Medicine and Biology</i> , 2012, 12, 1250066.	0.7	3
15	Analysis on Rigidity of Mitral Valve Leaflet (MVL) and Backflow Problems during Cardiac Cycle. <i>Journal of Biomimetics, Biomaterials, and Tissue Engineering</i> , 0, 13, 75-79.	0.7	3
16	Fluid Structure Interaction Analysis in Abdominal Aortic Aneurysms: Influence of Diameter, Length, and Distal Neck. <i>Journal of Medical Imaging and Health Informatics</i> , 2013, 3, 514-522.	0.3	3
17	Analysis of Hemodynamic Differences for Stenting Patent Ductus Arteriosus. <i>Journal of Medical Imaging and Health Informatics</i> , 2013, 3, 555-560.	0.3	3
18	Prediction of Blood Pattern in S-Shaped Model of Artery under Normal Blood Pressure. <i>Journal of Mechanical Engineering and Sciences</i> , 2013, 4, 496-503.	0.6	3

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19	Numerical Modeling of Fusiform Aneurysm with High and Normal Blood Pressure. , 2009, , .		2
20	Effect of circumferential groove sinusoidal waviness on the load carrying capacity of journal bearing with bio-based lubricant. , 2010, , .		2
21	Effect of semi-circular wavy liner on performance of journal bearing. AIP Conference Proceedings, 2012, , .	0.4	2
22	Computational analysis of flow field around Ahmed car model passing underneath a flyover. AIP Conference Proceedings, 2012, , .	0.4	2
23	Determination of correlation between backflow volume and mitral valve leaflet young modulus from two dimensional echocardiogram images. AIP Conference Proceedings, 2012, , .	0.4	2
24	The Effect of Wavy Groove Liner on Pressure Distribution of Journal Bearing. Applied Mechanics and Materials, 0, 315, 889-893.	0.2	2
25	Flow behaviour in normal and Meniereâ€™s disease of endolymphatic fluid inside the inner ear. IOP Conference Series: Materials Science and Engineering, 2017, 243, 012033.	0.6	2
26	Gasifying agents type at lower temperature effect on bubbling fluidised bed gasification for low rank coal. Progress in Computational Fluid Dynamics, 2019, 19, 44.	0.2	2
27	Rapid Prototyping 3D Model for PIV: Application in Human Trachea Model Flow Analysis. Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 2021, 79, 65-73.	0.6	2
28	Simulation of spherical encapsulated ice of thermal energy storage system during freezing. , 2009, , .		1
29	Numerical Solution of Hydrodynamics Lubrications with Non-Newtonian Fluid Flow. , 2010, , .		1
30	Effect of anastomosis angle on hemodynamic of side-to-end radiocephalic arteriovenous fistula (RCAVF). , 2012, , .		1
31	Bio-based lubricants for numerical solution of elasto-hydrodynamic lubrication. , 2012, , .		1
32	The effect of flow recirculation on abdominal aortic aneurysm. , 2012, , .		1
33	Effect of tracheal stenosis at different locations on airflow in the trachea and main bronchi. , 2012, , .		1
34	Gravitational Effect Formulation on In-House Air-Particle Flow Solver. Applied Mechanics and Materials, 0, 660, 699-703.	0.2	1
35	A Multiphase Eulerian-Eulerian CFD Simulation of Fluidized Bed Gasification Using Malaysian Low-Rank Coal-Merit Pila. Key Engineering Materials, 2017, 740, 163-172.	0.4	1
36	Computational modelling of flow and tip variations of aortic cannulae in cardiopulmonary bypass procedure. IOP Conference Series: Materials Science and Engineering, 2017, 243, 012021.	0.6	1

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37	Numerical Simulation of Concentration Over-voltage in a Polymer Electrolyte Fuel Cell under Low-Hydrogen Conditions. International Journal of Integrated Engineering, 2018, 10, .	0.4	1
38	Lumped Parameter Modelling in Femoral Popliteal Artery for Normal and Severe Conditions. International Journal of Integrated Engineering, 2018, 10, .	0.4	1
39	Hemodynamic and Flow Recirculation Effect on Rupture Prediction of Middle Cerebral Artery Aneurysm. Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 2020, 79, 1-16.	0.6	1
40	Risk of rupture analysis for advanced level of AAA under combined physiological and physical conditions. , 2009, , .		0
41	Numerical Dynamic Simulation of Optimized Cross-Flow Heat Exchanger with Various Refrigerants. , 2010, , .		0
42	Pressure Analysis In Point Contact For Elastohydrodynamic lubrication. , 2010, , .		0
43	Numerical Analysis of Flow and Heat in Variable Angle Slider Bearing. , 2010, , .		0
44	Multi-bifurcation flow analysis on 2D human respiratory airway system. , 2010, , .		0
45	Splitting solver with immersed boundary extension for the analysis of backward-facing step flow. , 2012, , .		0
46	Unsteady pressure fluctuation for internal flow in a cylinder using LES model. , 2012, , .		0
47	Numerical prediction on the dispersion of pollutant particles. , 2012, , .		0
48	Effects of irregular cerebrospinal fluid production rate in human brain ventricular system. , 2012, , .		0
49	Flow modeling of actual human nasal cavity for various breathing conditions. , 2012, , .		0
50	Numerical Analysis of Elastohydrodynamic Lubrication with Non-Newtonian Lubricant. Applied Mechanics and Materials, 2013, 388, 3-7.	0.2	0
51	Natural Convection in a Differentially Heated Cavity Using Splitting Method. Applied Mechanics and Materials, 0, 388, 156-160.	0.2	0
52	Preliminary Study on the Comparable Flow Pattern between Stented and Non-Stented Aneurysm at Hypertension Condition. Applied Mechanics and Materials, 2013, 388, 29-33.	0.2	0
53	NON-DIMENSIONAL DISTRIBUTION PATTERN ANALYSIS OF PARTICLE TRANSPORTATION IN SIMPLIFIED PIPELINE SYSTEM. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.4	0
54	Finite element analysis for stent in patent ductus arteriosus (PDA). , 2015, , .		0

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55	A review on the requirements of modelling of blood flow. , 2015, , .		0
56	Wall shear stress distributions on stented patent ductus arteriosus. AIP Conference Proceedings, 2017, , .	0.4	0
57	Predictions of Thrombosis Inducing Factor for Neonates Patient Â-Specific Model of Occluder Design using Computational Fluid Dynamics. International Journal of Cardiology, 2018, 273, 11.	1.7	0
58	The Effect of Flow Variations to Vibration Tendency in A Hydraulic Manifold. IOP Conference Series: Materials Science and Engineering, 2020, 884, 012113.	0.6	0
59	Effect of Airway Stent on Stenosed Trachea. Lecture Notes in Mechanical Engineering, 2022, , 183-191.	0.4	0
60	Optimization of Stack Emission Parameters Using Gaussian Plume Model. Jurnal Teknologi (Sciences) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.4	0
61	The Effect of Tracheal Stenosis at Different Locations and Sizes on Airflow in the Trachea and Main Bronchi: A Numerical Modeling Analysis. Advanced Science Letters, 2013, 19, 3041-3046.	0.2	0
62	Application of Solar Energy for Water Supply and Sanitation in Arsenic Affected Remote Areas: A Case of Bataiwa, Nigeria. Jurnal Teknologi (Sciences and Engineering), 2014, 68, .	0.4	0
63	Evaluation of Integrated Malaysian Meteorological Data Atmospheric Dispersion Software (IMMDADS). Advanced Science Letters, 2017, 23, 4399-4404.	0.2	0
64	Investigation on the Effect of Stenosis in Respiratory Airflow in Human Airway by Particle Image Velocimetry. Advanced Science Letters, 2017, 23, 4467-4471.	0.2	0
65	Pulsatile flow simulation of patent ductus arteriosus to evaluate thrombosis factors on closure device. Malaysian Journal of Fundamental and Applied Sciences, 2017, 13, 553-558.	0.8	0
66	Gasifying agents type at lower temperature effect on bubbling fluidised bed gasification for low rank coal. Progress in Computational Fluid Dynamics, 2019, 19, 44.	0.2	0
67	Development and Verification of Three-Dimensional Model of Human Foot for Badminton Insole Analysis: A Finite Element Study. , 2020, , .		0
68	Numerical Analysis of the Effect of Temperature on the Pressure and Film Thickness for Line Contact Elastohydrodynamic Lubrication Using Bio-Based Oils as Lubricants. Nigerian Journal of Basic and Medical Science, 2022, 92, 90-104.	0.6	0
69	Characteristic effect of wall elasticity on flow instability and wall shear stress of a full-scale, patient-specific aneurysm model in the middle cerebral artery: An experimental approach. Journal of Applied Physics, 2022, 131, 184701.	2.5	0