Yasin Varol

List of Publications by Year in Descending Order

95 papers	3,007 citations	33 h-index	51 g-index
101 ext. papers	3,312 ext. citations	4.4 avg, IF	5.4 L-index

#	Paper	IF	Citations
95	Combustion of high carbon (C7-C8) alcohol fuels in a reactivity controlled compression ignition (RCCI) engine as low reactivity fuels and ANN approach to predict RCCI emissions. *Fuel*, **2022**, 319, 123735	7.1	3
94	Soğuk Çeperler Altındaki Bir Boruda MHD Nanoakışkanın Zorlanmış Taşınım ile Isı Transferi. *Fırat Üniversitesi Mühendislik Bilimleri Dergisi*, **2021**, 33, 303-313	0	
93	Effects of isopropanol-butanol-ethanol (IBE) on combustion characteristics of a RCCI engine fueled by biodiesel fuel. *Sustainable Energy Technologies and Assessments*, **2021**, 47, 101443	4.7	8
92	Numerical investigation of heat transfer and flow characteristics of MHD nano-fluid forced convection in a pipe. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 3897-3909	4.1	14
91	Experimental and LES simulation of thermal mixing behavior of a twin-jet flow with sequential cylindrical obstacles. *International Communications in Heat and Mass Transfer*, **2020**, 114, 104576	5.8	1
90	Numerical Study of Mixed Convection in a Channel Filled with a Porous Medium. *Applied Sciences (Switzerland)*, **2019**, 9, 211	2.6	6
89	Experimental and numerical investigation of impinged water jet effects on heated cylinders for convective heat transfer. *International Journal of Thermal Sciences*, **2019**, 135, 493-508	4.1	6
88	A Comparative Analysis of In-Cylinder Flow, Heat Transfer and Turbulence Characteristics in Different Type Combustion Chamber. *International Journal of Automotive Engineering and Technologies*, **2018**, 7, 18-28	0.4	2
87	Experimental study and large Eddy simulation of a coaxial jet with perforated obstacles to control thermal mixing characteristics. *Experimental Heat Transfer*, **2018**, 31, 161-182	2.4	2
86	Experimental Investigation of Thermal-Mixing Phenomena of a Coaxial Jet with Cylindrical Obstacles. *Journal of Thermophysics and Heat Transfer*, **2018**, 32, 273-283	1.3	2
85	Experimental and computational analysis of thermal mixing characteristics of a coaxial jet. *Experimental Thermal and Fluid Science*, **2017**, 82, 276-286	3	9
84	Energy and exergy analysis of a heat storage tank with a novel eutectic phase change material layer of a solar heater system. *International Journal of Green Energy*, **2017**, 14, 1073-1080	3	18
83	Experimental study and Large Eddy Simulation of thermal mixing phenomena of a parallel jet with perforated obstacles. *International Journal of Thermal Sciences*, **2017**, 111, 1-17	4.1	7
82	Analysis of thermal mixing in circle shaped body inserted inclined channel. *Experimental Thermal and Fluid Science*, **2015**, 68, 1-10	3	6
81	Effect of inclined thick fin on natural convection in a cavity heated from bottom. *Progress in Computational Fluid Dynamics*, **2015**, 15, 47	0.7	4
80	Using Gasoline-like Fuel Obtained from Waste Automobile Tires in a Spark-ignited Engine. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2014**, 36, 1468-1475	1.6	10
79	Comparison of Methanol, Ethanol, or n-Butanol Blending with Unleaded Gasoline on Exhaust Emissions of an SI Engine. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2014**, 36, 938-948	1.6	58

78	Experimental Study of Thin Layer Drying Behavior of a Fish **2014**, 681-686		
77	Mixed convection and role of multiple solutions in lid-driven trapezoidal enclosures. *International Journal of Heat and Mass Transfer*, **2013**, 63, 366-388	4.9	44
76	Analyzing of thermal mixing phenomena in a rectangular channel with twin jets by using artificial neural network. *Nuclear Engineering and Design*, **2013**, 265, 554-565	1.8	12
75	Using of Bejan's Heatline Technique for Analysis of Natural Convection in a Divided Cavity with Differentially Changing Conductive Partition. *Numerical Heat Transfer; Part A: Applications*, **2013**, 64, 339-359	2.3	8
74	A numerical study on thermal mixing in narrow channels inserted rectangular bodies. *International Communications in Heat and Mass Transfer*, **2013**, 44, 69-76	5.8	13
73	Numerical Investigation of Fins Effect for Melting Process of Phase Change Materials **2013**,		1
72	Exhaust emissions of methanol and ethanol-unleaded gasoline blends in a spark-ignition engine. *Thermal Science*, **2013**, 17, 291-297	1.2	26
71	Experimental and numerical study on laminar natural convection in a cavity heated from bottom due to an inclined fin. *Heat and Mass Transfer*, **2012**, 48, 61-70	2.2	26
70	Numerical analysis of heat transfer due to slot jets impingement onto two cylinders with different diameters. *International Communications in Heat and Mass Transfer*, **2012**, 39, 726-735	5.8	13
69	Experimental and numerical analysis of buoyancy-induced flow in inclined triangular enclosures. *International Communications in Heat and Mass Transfer*, **2012**, 39, 1237-1244	5.8	24
68	An experimental study on thermal mixing in a square body inserted inclined narrow channels. *International Communications in Heat and Mass Transfer*, **2012**, 39, 1245-1252	5.8	10
67	Magnetohydrodynamic natural convection in trapezoidal cavities. *International Communications in Heat and Mass Transfer*, **2012**, 39, 1384-1394	5.8	60
66	Effects of inclination angle on natural convection in an inclined open porous cavity with non-isothermally heated wall. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2012**, 22, 1053-1072	4.5	20
65	Simulation of Jet Drying of a Moist Cylinder at Low Reynolds Number. *Drying Technology*, **2012**, 30, 631-640	2.8	6
64	Natural convection for hot materials confined within two entrapped porous trapezoidal cavities. *International Communications in Heat and Mass Transfer*, **2012**, 39, 282-290	5.8	26
63	Double-diffusive natural convection in a triangular solar collector. *International Communications in Heat and Mass Transfer*, **2012**, 39, 264-269	5.8	44
62	Effects of moving lid direction on MHD mixed convection in a linearly heated cavity. *International Journal of Heat and Mass Transfer*, **2012**, 55, 1103-1112	4.9	53
61	Mixed convection in partially cooled lid-driven cavity filled with a non-Darcy porous medium. *Progress in Computational Fluid Dynamics*, **2012**, 12, 46	0.7	6

60	Natural convection in porous triangular enclosure with a centered conducting body. *International Communications in Heat and Mass Transfer*, **2011**, 38, 368-376	5.8	29
59	Experimental investigation of cooling of heated circular disc using inclined circular jet. *International Communications in Heat and Mass Transfer*, **2011**, 38, 990-1001	5.8	27
58	Estimation of solar radiation using artificial neural networks with different input parameters for Mediterranean region of Anatolia in Turkey. *Expert Systems With Applications*, **2011**, 38, 8756-8762	7.8	113
57	Natural convection in wavy enclosures with volumetric heat sources. *International Journal of Thermal Sciences*, **2011**, 50, 502-514	4.1	90
56	Natural convection heat transfer in a partially opened cavity filled with porous media. *International Journal of Heat and Mass Transfer*, **2011**, 54, 2253-2261	4.9	38
55	Computational analysis of non-isothermal temperature distribution on natural convection in nanofluid filled enclosures. *Superlattices and Microstructures*, **2011**, 49, 453-467	2.8	67
54	Effects of Inclination Angle on Natural Convection in Composite Walled Enclosures. *Heat Transfer Engineering*, **2011**, 32, 57-68	1.7	7
53	Effects of inclination angle on conduction–natural convection in divided enclosures filled with different fluids. *International Communications in Heat and Mass Transfer*, **2010**, 37, 182-191	5.8	27
52	Maximum density effects on buoyancy-driven convection in a porous trapezoidal cavity. *International Communications in Heat and Mass Transfer*, **2010**, 37, 401-409	5.8	32
51	CFD modeling of heat transfer and fluid flow inside a pent-roof type combustion chamber using dynamic model. *International Communications in Heat and Mass Transfer*, **2010**, 37, 1366-1375	5.8	22
50	Visualization of heat flow using Bejan's heatline due to natural convection of water near 4 °C in thick walled porous cavity. *International Journal of Heat and Mass Transfer*, **2010**, 53, 1691-1698	4.9	31
49	Natural convection in divided trapezoidal cavities filled with fluid saturated porous media. *International Communications in Heat and Mass Transfer*, **2010**, 37, 1350-1358	5.8	27
48	Forecasting of thermal energy storage performance of Phase Change Material in a solar collector using soft computing techniques. *Expert Systems With Applications*, **2010**, 37, 2724-2732	7.8	79
47	Conjugate heat transfer in porous triangular enclosures with thick bottom wall. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2009**, 19, 650-664	4.5	30
46	Investigation of natural convection in triangular enclosure filled with porous medi saturated with water near 4 °C. *Energy Conversion and Management*, **2009**, 50, 1473-1480	10.6	42
45	Control of buoyancy-induced temperature and flow fields with an embedded adiabatic thin plate in porous triangular cavities. *Applied Thermal Engineering*, **2009**, 29, 558-566	5.8	21
44	Numerical simulation of magnetohydrodynamic buoyancy-induced flow in a non-isothermally heated square enclosure. *Communications in Nonlinear Science and Numerical Simulation*, **2009**, 14, 770-778	3.7	57
43	Natural convection in right-angle porous trapezoidal enclosure partially cooled from inclined wall. *International Communications in Heat and Mass Transfer*, **2009**, 36, 6-15	5.8	58

42	Comments on Reply to Letter to the Editor-in-Chief by T. Erdik [1]. *International Communications in Heat and Mass Transfer*, **2009**, 36, 532	5.8	
41	Natural convection in a vertically divided square enclosure by a solid partition into air and water regions. *International Journal of Heat and Mass Transfer*, **2009**, 52, 5909-5921	4.9	46
40	Forecasting of entropy production due to buoyant convection using support vector machines (SVM) in a partially cooled square cross-sectional room. *Expert Systems With Applications*, **2009**, 36, 5813-5821	7.8	9
39	Control of heat transfer and fluid flow using a triangular bar in heated blocks located in a channel. *International Communications in Heat and Mass Transfer*, **2009**, 36, 878-885	5.8	20
38	Entropy generation due to natural convection in non-uniformly heated porous isosceles triangular enclosures at different positions. *International Journal of Heat and Mass Transfer*, **2009**, 52, 1193-1205	4.9	76
37	Natural convection and fluid flow in inclined enclosure with a corner heater. *Applied Thermal Engineering*, **2009**, 29, 340-350	5.8	43
36	Entropy analysis due to conjugate-buoyant flow in a right-angle trapezoidal enclosure filled with a porous medium bounded by a solid vertical wall. *International Journal of Thermal Sciences*, **2009**, 48, 1161-1175	4.1	52
35	Natural convection in a diagonally divided square cavity filled with a porous medium. *International Journal of Thermal Sciences*, **2009**, 48, 1405-1415	4.1	27
34	Conduction-Natural Convection in a Partitioned Triangular Enclosure Filled with Fluid Saturated Porous Media. *Journal of Porous Media*, **2009**, 12, 593-611	2.9	8
33	Natural convection in porous media-filled triangular enclosure with a conducting thin fin on the hot vertical wall. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2008**, 222, 1735-1743	1.3	15
32	Natural convection analysis for both protruding and flush-mounted heaters located in triangular enclosure. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2008**, 222, 1203-1214	1.3	1
31	Estimation of thermal and flow fields due to natural convection using support vector machines (SVM) in a porous cavity with discrete heat sources. *International Communications in Heat and Mass Transfer*, **2008**, 35, 928-936	5.8	24
30	Influence of inclination angle on buoyancy-driven convection in triangular enclosure filled with a fluid-saturated porous medium. *Heat and Mass Transfer*, **2008**, 44, 617-624	2.2	29
29	Effects of wall conduction on natural convection in a porous triangular enclosure. *Acta Mechanica*, **2008**, 200, 155-165	2.1	12
28	Energy and exergy analysis of a latent heat storage system with phase change material for a solar collector. *Renewable Energy*, **2008**, 33, 567-574	8.1	189
27	A comparative numerical study on natural convection in inclined wavy and flat-plate solar collectors. *Building and Environment*, **2008**, 43, 1535-1544	6.5	68
26	Numerical analysis of natural convection in shed roofs with eave of buildings for cold climates. *Computers and Mathematics With Applications*, **2008**, 56, 3165-3174	2.7	7
25	Numerical analysis of natural convection in an inclined trapezoidal enclosure filled with a porous medium. *International Journal of Thermal Sciences*, **2008**, 47, 1316-1331	4.1	50

24	Entropy production due to free convection in partially heated isosceles triangular enclosures. *Applied Thermal Engineering*, **2008**, 28, 1502-1513	5.8	73
23	Analysis of adaptive-network-based fuzzy inference system (ANFIS) to estimate buoyancy-induced flow field in partially heated triangular enclosures. *Expert Systems With Applications*, **2008**, 35, 1989-1997	7.8	21
22	Numerical analysis of natural convection for a porous rectangular enclosure with sinusoidally varying temperature profile on the bottom wall. *International Communications in Heat and Mass Transfer*, **2008**, 35, 56-64	5.8	62
21	Natural convection flow in porous enclosures with heating and cooling on adjacent walls and divided by a triangular massive partition. *International Communications in Heat and Mass Transfer*, **2008**, 35, 476-491	5.8	12
20	Entropy generation due to conjugate natural convection in enclosures bounded by vertical solid walls with different thicknesses. *International Communications in Heat and Mass Transfer*, **2008**, 35, 648-656	5.8	65
19	Visualization of natural convection heat transport using heatline method in porous non-isothermally heated triangular cavity. *International Journal of Heat and Mass Transfer*, **2008**, 51, 5040-5051	4.9	65
18	Free Convection Heat Transfer and Flow Field in Triangular Enclosures Filled with Porous Media. *Journal of Porous Media*, **2008**, 11, 103-115	2.9	18
17	Laminar natural convection heat transfer in a shed roof with or without eave for summer season. *Applied Thermal Engineering*, **2007**, 27, 2252-2265	5.8	23
16	Natural convection heat transfer in Gambrel roofs. *Building and Environment*, **2007**, 42, 1291-1297	6.5	25
15	Natural convection in porous triangular enclosures with a solid adiabatic fin attached to the horizontal wall. *International Communications in Heat and Mass Transfer*, **2007**, 34, 19-27	5.8	50
14	Two-dimensional natural convection in a porous triangular enclosure with a square body. *International Communications in Heat and Mass Transfer*, **2007**, 34, 238-247	5.8	24
13	Prediction of flow fields and temperature distributions due to natural convection in a triangular enclosure using Adaptive-Network-Based Fuzzy Inference System (ANFIS) and Artificial Neural Network (ANN). *International Communications in Heat and Mass Transfer*, **2007**, 34, 887-896	5.8	73
12	Natural convection in triangular enclosures with protruding isothermal heater. *International Journal of Heat and Mass Transfer*, **2007**, 50, 2451-2462	4.9	49
11	The effects of Prandtl number on natural convection in triangular enclosures with localized heating from below. *International Communications in Heat and Mass Transfer*, **2007**, 34, 511-519	5.8	71
10	Effects of thin fin on natural convection in porous triangular enclosures. *International Journal of Thermal Sciences*, **2007**, 46, 1033-1045	4.1	67
9	Buoyancy induced heat transfer and fluid flow inside a tilted wavy solar collector. *Building and Environment*, **2007**, 42, 2062-2071	6.5	48
8	Application of Central Difference Scheme to the Solution of Natural Convection Equations for Irregular Shaped Enclosures. *Journal of Applied Sciences*, **2007**, 7, 553-558	0.3	6
7	Natural convection in a triangle enclosure with flush mounted heater on the wall. *International Communications in Heat and Mass Transfer*, **2006**, 33, 951-958	5.8	88

6	Free convection in porous media filled right-angle triangular enclosures. *International Communications in Heat and Mass Transfer*, **2006**, 33, 1190-1197	5.8	47
5	Free convection in a shallow wavy enclosure. *International Communications in Heat and Mass Transfer*, **2006**, 33, 764-771	5.8	42
4	Laminar Natural Convection in Saltbox Roofs for Both Summerlike and Winterlike Boundary Conditions. *Journal of Applied Sciences*, **2006**, 6, 2617-2622	0.3	11
3	Genetic object recognition using combinations of views. *IEEE Transactions on Evolutionary Computation*, **2002**, 6, 132-146	15.6	20
2	Increasing the efficiency of wind turbines. *Journal of Wind Engineering and Industrial Aerodynamics*, **2001**, 89, 809-815	3.7	23
1	A study of oxygen-enriched reactivity-controlled compression ignition combustion in a diesel research engine under varying loadings and premixed ratios. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*,1-21	1.6	1