

# Yasin Varol

## List of Publications by Citations

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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	Energy and exergy analysis of a latent heat storage system with phase change material for a solar collector. <i>Renewable Energy</i> , <b>2008</b> , 33, 567-574	8.1	189
94	Estimation of solar radiation using artificial neural networks with different input parameters for Mediterranean region of Anatolia in Turkey. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 8756-8762	7.8	113
93	Natural convection in wavy enclosures with volumetric heat sources. <i>International Journal of Thermal Sciences</i> , <b>2011</b> , 50, 502-514	4.1	90
92	Natural convection in a triangle enclosure with flush mounted heater on the wall. <i>International Communications in Heat and Mass Transfer</i> , <b>2006</b> , 33, 951-958	5.8	88
91	Forecasting of thermal energy storage performance of Phase Change Material in a solar collector using soft computing techniques. <i>Expert Systems With Applications</i> , <b>2010</b> , 37, 2724-2732	7.8	79
90	Entropy generation due to natural convection in non-uniformly heated porous isosceles triangular enclosures at different positions. <i>International Journal of Heat and Mass Transfer</i> , <b>2009</b> , 52, 1193-1205	4.9	76
89	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). <i>International Communications in Heat and Mass Transfer</i> , <b>2007</b> , 34, 887-896	5.8	73
88	Entropy production due to free convection in partially heated isosceles triangular enclosures. <i>Applied Thermal Engineering</i> , <b>2008</b> , 28, 1502-1513	5.8	73
87	The effects of Prandtl number on natural convection in triangular enclosures with localized heating from below. <i>International Communications in Heat and Mass Transfer</i> , <b>2007</b> , 34, 511-519	5.8	71
86	A comparative numerical study on natural convection in inclined wavy and flat-plate solar collectors. <i>Building and Environment</i> , <b>2008</b> , 43, 1535-1544	6.5	68
85	Computational analysis of non-isothermal temperature distribution on natural convection in nanofluid filled enclosures. <i>Superlattices and Microstructures</i> , <b>2011</b> , 49, 453-467	2.8	67
84	Effects of thin fin on natural convection in porous triangular enclosures. <i>International Journal of Thermal Sciences</i> , <b>2007</b> , 46, 1033-1045	4.1	67
83	Entropy generation due to conjugate natural convection in enclosures bounded by vertical solid walls with different thicknesses. <i>International Communications in Heat and Mass Transfer</i> , <b>2008</b> , 35, 648-656	5.8	65
82	Visualization of natural convection heat transport using heatline method in porous non-isothermally heated triangular cavity. <i>International Journal of Heat and Mass Transfer</i> , <b>2008</b> , 51, 5040-5051	4.9	65
81	Numerical analysis of natural convection for a porous rectangular enclosure with sinusoidally varying temperature profile on the bottom wall. <i>International Communications in Heat and Mass Transfer</i> , <b>2008</b> , 35, 56-64	5.8	62
80	Magnetohydrodynamic natural convection in trapezoidal cavities. <i>International Communications in Heat and Mass Transfer</i> , <b>2012</b> , 39, 1384-1394	5.8	60
79	Comparison of Methanol, Ethanol, or n-Butanol Blending with Unleaded Gasoline on Exhaust Emissions of an SI Engine. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2014</b> , 36, 938-948	1.6	58

78	Natural convection in right-angle porous trapezoidal enclosure partially cooled from inclined wall. <i>International Communications in Heat and Mass Transfer</i> , <b>2009</b> , 36, 6-15	5.8	58
77	Numerical simulation of magnetohydrodynamic buoyancy-induced flow in a non-isothermally heated square enclosure. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2009</b> , 14, 770-778	4.7	57
76	Effects of moving lid direction on MHD mixed convection in a linearly heated cavity. <i>International Journal of Heat and Mass Transfer</i> , <b>2012</b> , 55, 1103-1112	4.9	53
75	Entropy analysis due to conjugate-buoyant flow in a right-angle trapezoidal enclosure filled with a porous medium bounded by a solid vertical wall. <i>International Journal of Thermal Sciences</i> , <b>2009</b> , 48, 1164-1175	4.1	52
74	Natural convection in porous triangular enclosures with a solid adiabatic fin attached to the horizontal wall. <i>International Communications in Heat and Mass Transfer</i> , <b>2007</b> , 34, 19-27	5.8	50
73	Numerical analysis of natural convection in an inclined trapezoidal enclosure filled with a porous medium. <i>International Journal of Thermal Sciences</i> , <b>2008</b> , 47, 1316-1331	4.1	50
72	Natural convection in triangular enclosures with protruding isothermal heater. <i>International Journal of Heat and Mass Transfer</i> , <b>2007</b> , 50, 2451-2462	4.9	49
71	Buoyancy induced heat transfer and fluid flow inside a tilted wavy solar collector. <i>Building and Environment</i> , <b>2007</b> , 42, 2062-2071	6.5	48
70	Free convection in porous media filled right-angle triangular enclosures. <i>International Communications in Heat and Mass Transfer</i> , <b>2006</b> , 33, 1190-1197	5.8	47
69	Natural convection in a vertically divided square enclosure by a solid partition into air and water regions. <i>International Journal of Heat and Mass Transfer</i> , <b>2009</b> , 52, 5909-5921	4.9	46
68	Mixed convection and role of multiple solutions in lid-driven trapezoidal enclosures. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 63, 366-388	4.9	44
67	Double-diffusive natural convection in a triangular solar collector. <i>International Communications in Heat and Mass Transfer</i> , <b>2012</b> , 39, 264-269	5.8	44
66	Natural convection and fluid flow in inclined enclosure with a corner heater. <i>Applied Thermal Engineering</i> , <b>2009</b> , 29, 340-350	5.8	43
65	Investigation of natural convection in triangular enclosure filled with porous media saturated with water near 4 °C. <i>Energy Conversion and Management</i> , <b>2009</b> , 50, 1473-1480	10.6	42
64	Free convection in a shallow wavy enclosure. <i>International Communications in Heat and Mass Transfer</i> , <b>2006</b> , 33, 764-771	5.8	42
63	Natural convection heat transfer in a partially opened cavity filled with porous media. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 2253-2261	4.9	38
62	Maximum density effects on buoyancy-driven convection in a porous trapezoidal cavity. <i>International Communications in Heat and Mass Transfer</i> , <b>2010</b> , 37, 401-409	5.8	32
61	Visualization of heat flow using Bejan's heatline due to natural convection of water near 4°C in thick walled porous cavity. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 1691-1698	4.9	31

60	Conjugate heat transfer in porous triangular enclosures with thick bottom wall. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2009</b> , 19, 650-664	4.5	30
59	Natural convection in porous triangular enclosure with a centered conducting body. <i>International Communications in Heat and Mass Transfer</i> , <b>2011</b> , 38, 368-376	5.8	29
58	Influence of inclination angle on buoyancy-driven convection in triangular enclosure filled with a fluid-saturated porous medium. <i>Heat and Mass Transfer</i> , <b>2008</b> , 44, 617-624	2.2	29
57	Experimental investigation of cooling of heated circular disc using inclined circular jet. <i>International Communications in Heat and Mass Transfer</i> , <b>2011</b> , 38, 990-1001	5.8	27
56	Natural convection in a diagonally divided square cavity filled with a porous medium. <i>International Journal of Thermal Sciences</i> , <b>2009</b> , 48, 1405-1415	4.1	27
55	Effects of inclination angle on conductionNatural convection in divided enclosures filled with different fluids. <i>International Communications in Heat and Mass Transfer</i> , <b>2010</b> , 37, 182-191	5.8	27
54	Natural convection in divided trapezoidal cavities filled with fluid saturated porous media. <i>International Communications in Heat and Mass Transfer</i> , <b>2010</b> , 37, 1350-1358	5.8	27
53	Experimental and numerical study on laminar natural convection in a cavity heated from bottom due to an inclined fin. <i>Heat and Mass Transfer</i> , <b>2012</b> , 48, 61-70	2.2	26
52	Natural convection for hot materials confined within two entrapped porous trapezoidal cavities. <i>International Communications in Heat and Mass Transfer</i> , <b>2012</b> , 39, 282-290	5.8	26
51	Exhaust emissions of methanol and ethanol-unleaded gasoline blends in a spark-ignition engine. <i>Thermal Science</i> , <b>2013</b> , 17, 291-297	1.2	26
50	Natural convection heat transfer in Gambrel roofs. <i>Building and Environment</i> , <b>2007</b> , 42, 1291-1297	6.5	25
49	Experimental and numerical analysis of buoyancy-induced flow in inclined triangular enclosures. <i>International Communications in Heat and Mass Transfer</i> , <b>2012</b> , 39, 1237-1244	5.8	24
48	Two-dimensional natural convection in a porous triangular enclosure with a square body. <i>International Communications in Heat and Mass Transfer</i> , <b>2007</b> , 34, 238-247	5.8	24
47	Estimation of thermal and flow fields due to natural convection using support vector machines (SVM) in a porous cavity with discrete heat sources. <i>International Communications in Heat and Mass Transfer</i> , <b>2008</b> , 35, 928-936	5.8	24
46	Laminar natural convection heat transfer in a shed roof with or without eave for summer season. <i>Applied Thermal Engineering</i> , <b>2007</b> , 27, 2252-2265	5.8	23
45	Increasing the efficiency of wind turbines. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2001</b> , 89, 809-815	3.7	23
44	CFD modeling of heat transfer and fluid flow inside a pent-roof type combustion chamber using dynamic model. <i>International Communications in Heat and Mass Transfer</i> , <b>2010</b> , 37, 1366-1375	5.8	22
43	Control of buoyancy-induced temperature and flow fields with an embedded adiabatic thin plate in porous triangular cavities. <i>Applied Thermal Engineering</i> , <b>2009</b> , 29, 558-566	5.8	21

42	Analysis of adaptive-network-based fuzzy inference system (ANFIS) to estimate buoyancy-induced flow field in partially heated triangular enclosures. <i>Expert Systems With Applications</i> , <b>2008</b> , 35, 1989-1997	7.8	21
41	Effects of inclination angle on natural convection in an inclined open porous cavity with non-isothermally heated wall. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2012</b> , 22, 1053-1072	4.5	20
40	Control of heat transfer and fluid flow using a triangular bar in heated blocks located in a channel. <i>International Communications in Heat and Mass Transfer</i> , <b>2009</b> , 36, 878-885	5.8	20
39	Genetic object recognition using combinations of views. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2002</b> , 6, 132-146	15.6	20
38	Energy and exergy analysis of a heat storage tank with a novel eutectic phase change material layer of a solar heater system. <i>International Journal of Green Energy</i> , <b>2017</b> , 14, 1073-1080	3	18
37	Free Convection Heat Transfer and Flow Field in Triangular Enclosures Filled with Porous Media. <i>Journal of Porous Media</i> , <b>2008</b> , 11, 103-115	2.9	18
36	Natural convection in porous media-filled triangular enclosure with a conducting thin fin on the hot vertical wall. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2008</b> , 222, 1735-1743	1.3	15
35	Numerical investigation of heat transfer and flow characteristics of MHD nano-fluid forced convection in a pipe. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 139, 3897-3909	4.1	14
34	A numerical study on thermal mixing in narrow channels inserted rectangular bodies. <i>International Communications in Heat and Mass Transfer</i> , <b>2013</b> , 44, 69-76	5.8	13
33	Numerical analysis of heat transfer due to slot jets impingement onto two cylinders with different diameters. <i>International Communications in Heat and Mass Transfer</i> , <b>2012</b> , 39, 726-735	5.8	13
32	Analyzing of thermal mixing phenomena in a rectangular channel with twin jets by using artificial neural network. <i>Nuclear Engineering and Design</i> , <b>2013</b> , 265, 554-565	1.8	12
31	Effects of wall conduction on natural convection in a porous triangular enclosure. <i>Acta Mechanica</i> , <b>2008</b> , 200, 155-165	2.1	12
30	Natural convection flow in porous enclosures with heating and cooling on adjacent walls and divided by a triangular massive partition. <i>International Communications in Heat and Mass Transfer</i> , <b>2008</b> , 35, 476-491	5.8	12
29	Laminar Natural Convection in Saltbox Roofs for Both Summerlike and Winterlike Boundary Conditions. <i>Journal of Applied Sciences</i> , <b>2006</b> , 6, 2617-2622	0.3	11
28	Using Gasoline-like Fuel Obtained from Waste Automobile Tires in a Spark-ignited Engine. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2014</b> , 36, 1468-1475	1.6	10
27	An experimental study on thermal mixing in a square body inserted inclined narrow channels. <i>International Communications in Heat and Mass Transfer</i> , <b>2012</b> , 39, 1245-1252	5.8	10
26	Experimental and computational analysis of thermal mixing characteristics of a coaxial jet. <i>Experimental Thermal and Fluid Science</i> , <b>2017</b> , 82, 276-286	3	9
25	Forecasting of entropy production due to buoyant convection using support vector machines (SVM) in a partially cooled square cross-sectional room. <i>Expert Systems With Applications</i> , <b>2009</b> , 36, 5813-5821	7.8	9

24	Using of Bejan's Heatline Technique for Analysis of Natural Convection in a Divided Cavity with Differentially Changing Conductive Partition. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2013</b> , 64, 339-359	2.3	8
23	Conduction-Natural Convection in a Partitioned Triangular Enclosure Filled with Fluid Saturated Porous Media. <i>Journal of Porous Media</i> , <b>2009</b> , 12, 593-611	2.9	8
22	Effects of isopropanol-butanol-ethanol (IBE) on combustion characteristics of a RCCI engine fueled by biodiesel fuel. <i>Sustainable Energy Technologies and Assessments</i> , <b>2021</b> , 47, 101443	4.7	8
21	Experimental study and Large Eddy Simulation of thermal mixing phenomena of a parallel jet with perforated obstacles. <i>International Journal of Thermal Sciences</i> , <b>2017</b> , 111, 1-17	4.1	7
20	Effects of Inclination Angle on Natural Convection in Composite Walled Enclosures. <i>Heat Transfer Engineering</i> , <b>2011</b> , 32, 57-68	1.7	7
19	Numerical analysis of natural convection in shed roofs with eave of buildings for cold climates. <i>Computers and Mathematics With Applications</i> , <b>2008</b> , 56, 3165-3174	2.7	7
18	Numerical Study of Mixed Convection in a Channel Filled with a Porous Medium. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 211	2.6	6
17	Analysis of thermal mixing in circle shaped body inserted inclined channel. <i>Experimental Thermal and Fluid Science</i> , <b>2015</b> , 68, 1-10	3	6
16	Simulation of Jet Drying of a Moist Cylinder at Low Reynolds Number. <i>Drying Technology</i> , <b>2012</b> , 30, 631-640	6.4	6
15	Mixed convection in partially cooled lid-driven cavity filled with a non-Darcy porous medium. <i>Progress in Computational Fluid Dynamics</i> , <b>2012</b> , 12, 46	0.7	6
14	Application of Central Difference Scheme to the Solution of Natural Convection Equations for Irregular Shaped Enclosures. <i>Journal of Applied Sciences</i> , <b>2007</b> , 7, 553-558	0.3	6
13	Experimental and numerical investigation of impinged water jet effects on heated cylinders for convective heat transfer. <i>International Journal of Thermal Sciences</i> , <b>2019</b> , 135, 493-508	4.1	6
12	Effect of inclined thick fin on natural convection in a cavity heated from bottom. <i>Progress in Computational Fluid Dynamics</i> , <b>2015</b> , 15, 47	0.7	4
11	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. <i>Fuel</i> , <b>2022</b> , 319, 123735 <sup>1</sup>	7.1	3
10	A Comparative Analysis of In-Cylinder Flow, Heat Transfer and Turbulence Characteristics in Different Type Combustion Chamber. <i>International Journal of Automotive Engineering and Technologies</i> , <b>2018</b> , 7, 18-28	0.4	2
9	Experimental study and large Eddy simulation of a coaxial jet with perforated obstacles to control thermal mixing characteristics. <i>Experimental Heat Transfer</i> , <b>2018</b> , 31, 161-182	2.4	2
8	Experimental Investigation of Thermal-Mixing Phenomena of a Coaxial Jet with Cylindrical Obstacles. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2018</b> , 32, 273-283	1.3	2
7	Numerical Investigation of Fins Effect for Melting Process of Phase Change Materials <b>2013</b> ,		1

6	Natural convection analysis for both protruding and flush-mounted heaters located in triangular enclosure. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2008</b> , 222, 1203-1214	1.3	1
5	Experimental and LES simulation of thermal mixing behavior of a twin-jet flow with sequential cylindrical obstacles. <i>International Communications in Heat and Mass Transfer</i> , <b>2020</b> , 114, 104576	5.8	1
4	A study of oxygen-enriched reactivity-controlled compression ignition combustion in a diesel research engine under varying loadings and premixed ratios. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 1-21	1.6	1
3	Comments on Reply to Letter to the Editor-in-Chief by T. Erdik [1]. <i>International Communications in Heat and Mass Transfer</i> , <b>2009</b> , 36, 532	5.8	
2	Experimental Study of Thin Layer Drying Behavior of a Fish <b>2014</b> , 681-686		
1	Soğuk Hava Altındaki Bir Boruda MHD Nanoakışkanın Zorlanma Tabanıyla Isı Transferi. <i>Fırat Üniversitesi Mühendislik Bilimleri Dergisi</i> , <b>2021</b> , 33, 303-313		0