Yasin Varol

List of Publications by Year
in descending order

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101 papers	3,715 citations	109137 35 h-index	143772 57 g-index
101 all docs	101 docs citations	101 times ranked	1967 citing authors

#	Article	IF	Citations
1	Energy and exergy analysis of a latent heat storage system with phase change material for a solar collector. Renewable Energy, 2008, 33, 567-574.	4.3	232
2	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.	4.4	142
3	Natural convection in wavy enclosures with volumetric heat sources. International Journal of Thermal Sciences, 2011, 50, 502-514.	2.6	118
4	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.	4.4	105
5	Natural convection in a triangle enclosure with flush mounted heater on the wall. International Communications in Heat and Mass Transfer, 2006, 33, 951-958.	2.9	98
6	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.	2.9	87
7	Entropy production due to free convection in partially heated isosceles triangular enclosures. Applied Thermal Engineering, 2008, 28, 1502-1513.	3.0	86
8	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.	2.9	86
9	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.	2.5	86
10	A comparative numerical study on natural convection in inclined wavy and flat-plate solar collectors. Building and Environment, 2008, 43, 1535-1544.	3.0	84
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.	2.9	83
12	Effects of thin fin on natural convection in porous triangular enclosures. International Journal of Thermal Sciences, 2007, 46, 1033-1045.	2.6	80
13	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.	2.9	78
14	Computational analysis of non-isothermal temperature distribution on natural convection in nanofluid filled enclosures. Superlattices and Microstructures, 2011, 49, 453-467.	1.4	76
15	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.	2.5	75
16	Natural convection in right-angle porous trapezoidal enclosure partially cooled from inclined wall. International Communications in Heat and Mass Transfer, 2009, 36, 6-15.	2.9	75
17	Magnetohydrodynamic natural convection in trapezoidal cavities. International Communications in Heat and Mass Transfer, 2012, 39, 1384-1394.	2.9	73
18	Comparison of Methanol, Ethanol, orn-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.	1.2	73

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19	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.	1.7	70
20	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.	2.5	68
21	Natural convection in triangular enclosures with protruding isothermal heater. International Journal of Heat and Mass Transfer, 2007, 50, 2451-2462.	2.5	63
22	Numerical analysis of natural convection in an inclined trapezoidal enclosure filled with a porous medium. International Journal of Thermal Sciences, 2008, 47, 1316-1331.	2.6	63
23	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.	2.9	59
24	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.	2.6	59
25	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.	2.5	58
26	Double-diffusive natural convection in a triangular solar collector. International Communications in Heat and Mass Transfer, 2012, 39, 264-269.	2.9	58
27	Mixed convection and role of multiple solutions in lid-driven trapezoidal enclosures. International Journal of Heat and Mass Transfer, 2013, 63, 366-388.	2.5	58
28	Buoyancy induced heat transfer and fluid flow inside a tilted wavy solar collector. Building and Environment, 2007, 42, 2062-2071.	3.0	57
29	Natural convection and fluid flow in inclined enclosure with a corner heater. Applied Thermal Engineering, 2009, 29, 340-350.	3.0	57
30	Free convection in porous media filled right-angle triangular enclosures. International Communications in Heat and Mass Transfer, 2006, 33, 1190-1197.	2.9	56
31	Free convection in a shallow wavy enclosure. International Communications in Heat and Mass Transfer, 2006, 33, 764-771.	2.9	51
32	Investigation of natural convection in triangular enclosure filled with porous medi saturated with water near 4Â°C. Energy Conversion and Management, 2009, 50, 1473-1480.	4.4	45
33	Natural convection heat transfer in a partially opened cavity filled with porous media. International Journal of Heat and Mass Transfer, 2011, 54, 2253-2261.	2.5	43
34	Effects of inclination angle on conductionâ€"natural convection in divided enclosures filled with different fluids. International Communications in Heat and Mass Transfer, 2010, 37, 182-191.	2.9	39
35	Maximum density effects on buoyancy-driven convection in a porous trapezoidal cavity. International Communications in Heat and Mass Transfer, 2010, 37, 401-409.	2.9	37
36	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.	1.2	35

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37	Visualization of heat flow using Bejanâ€™s heatline due to natural convection of water near 4 Â°C in thick walled porous cavity. International Journal of Heat and Mass Transfer, 2010, 53, 1691-1698.	2.5	35
38	Exhaust emissions of methanol and ethanol-unleaded gasoline blends in a spark-ignition engine. Thermal Science, 2013, 17, 291-297.	0.5	34
39	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.	1.6	33
40	Natural convection in divided trapezoidal cavities filled with fluid saturated porous media. International Communications in Heat and Mass Transfer, 2010, 37, 1350-1358.	2.9	33
41	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.	1.2	33
42	Increasing the efficiency of wind turbines. Journal of Wind Engineering and Industrial Aerodynamics, 2001, 89, 809-815.	1.7	32
43	Genetic object recognition using combinations of views. IEEE Transactions on Evolutionary Computation, 2002, 6, 132-146.	7.5	32
44	Natural convection in a diagonally divided square cavity filled with a porous medium. International Journal of Thermal Sciences, 2009, 48, 1405-1415.	2.6	32
45	Two-dimensional natural convection in a porous triangular enclosure with a square body. International Communications in Heat and Mass Transfer, 2007, 34, 238-247.	2.9	31
46	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.	2.9	31
47	Natural convection in porous triangular enclosure with a centered conducting body. International Communications in Heat and Mass Transfer, 2011, 38, 368-376.	2.9	31
48	Natural convection heat transfer in Gambrel roofs. Building and Environment, 2007, 42, 1291-1297.	3.0	30
49	Experimental investigation of cooling of heated circular disc using inclined circular jet. International Communications in Heat and Mass Transfer, 2011, 38, 990-1001.	2.9	30
50	Laminar natural convection heat transfer in a shed roof with or without eave for summer season. Applied Thermal Engineering, 2007, 27, 2252-2265.	3.0	29
51	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.	4.4	29
52	Natural convection for hot materials confined within two entrapped porous trapezoidal cavities. International Communications in Heat and Mass Transfer, 2012, 39, 282-290.	2.9	29
53	Experimental and numerical analysis of buoyancy-induced flow in inclined triangular enclosures. International Communications in Heat and Mass Transfer, 2012, 39, 1237-1244.	2.9	27
54	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.	3.0	26

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55	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.	2.9	26
56	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.	2.9	25
57	Effects of inclination angle on natural convection in an inclined open porous cavity with nonâ€isothermally heated wall. International Journal of Numerical Methods for Heat and Fluid Flow, 2012, 22, 1053-1072.	1.6	23
58	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.	2.1	22
59	Free Convection Heat Transfer and Flow Field in Triangular Enclosures Filled with Porous Media. Journal of Porous Media, 2008, 11, 103-115.	1.0	21
60	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.	1.7	20
61	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.	1.1	19
62	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.	2.0	19
63	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.	2.9	16
64	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.	3.4	16
65	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.	2.9	15
66	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.	4.4	15
67	A numerical study on thermal mixing in narrow channels inserted rectangular bodies. International Communications in Heat and Mass Transfer, 2013, 44, 69-76.	2.9	15
68	Laminar Natural Convection in Saltbox Roofs for Both Summerlike and Winterlike Boundary Conditions. Journal of Applied Sciences, 2006, 6, 2617-2622.	0.1	15
69	Effects of wall conduction on natural convection in a porous triangular enclosure. Acta Mechanica, 2008, 200, 155-165.	1.1	13
70	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.	0.8	12
71	Experimental and computational analysis of thermal mixing characteristics of a coaxial jet. Experimental Thermal and Fluid Science, 2017, 82, 276-286.	1.5	12
72	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.	1.2	11

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73	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.	2.6	11
74	Numerical analysis of natural convection in shed roofs with eave of buildings for cold climates. Computers and Mathematics With Applications, 2008, 56, 3165-3174.	1.4	10
75	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.	2.9	10
76	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.	1.2	10
77	Conduction-Natural Convection in a Partitioned Triangular Enclosure Filled with Fluid Saturated Porous Media. Journal of Porous Media, 2009, 12, 593-611.	1.0	10
78	Effects of Inclination Angle on Natural Convection in Composite Walled Enclosures. Heat Transfer Engineering, 2011, 32, 57-68.	1.2	8
79	Mixed convection in partially cooled lid-driven cavity filled with a non-Darcy porous medium. Progress in Computational Fluid Dynamics, 2012, 12, 46.	0.1	8
80	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.	2.6	7
81	Numerical Study of Mixed Convection in a Channel Filled with a Porous Medium. Applied Sciences (Switzerland), 2019, 9, 211.	1.3	7
82	Simulation of Jet Drying of a Moist Cylinder at Low Reynolds Number. Drying Technology, 2012, 30, 631-640.	1.7	6
83	Analysis of thermal mixing in circle shaped body inserted inclined channel. Experimental Thermal and Fluid Science, 2015, 68, 1-10.	1.5	6
84	Application of Central Difference Scheme to the Solution of Natural Convection Equations for Irregular Shaped Enclosures. Journal of Applied Sciences, 2007, 7, 553-558.	0.1	6
85	Effect of inclined thick fin on natural convection in a cavity heated from bottom. Progress in Computational Fluid Dynamics, 2015, 15, 47.	0.1	5
86	Experimental investigation on combustion and emission characteristics of reactivity controlled compression ignition engine powered with iso-propanol/biodiesel blends. Propulsion and Power Research, 2022, 11, 224-239.	2.0	5
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.	2.3	4
88	Experimental Investigation of Thermal-Mixing Phenomena of a Coaxial Jet with Cylindrical Obstacles. Journal of Thermophysics and Heat Transfer, 2018, 32, 273-283.	0.9	3
89	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.	2.9	3
90	Numerical Investigation of Fins Effect for Melting Process of Phase Change Materials. , 2013, , .		2

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91	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.	0.3	2
92	FarklÄ± malzemelerden yapÄ±lmÄ±ÅŸ Dizel PartikÃ¼l Filtresi (DPF)â€™nin Rejenerasyon SÃ¼recinin SayÄ±sal Olarak Ä°ncelenmesi. Journal of the Faculty of Engineering and Architecture of Gazi University, 2018, 2018, .	0.3	2
93	Bir RCCI motorun yanma ve egzoz emisyon karakteristikleri Ã¼zerinde benzin Ã¶n karÄ±ÅŸÄ±m oranÄ± ve motor yÃ¼kÃ¼nÃ¼n etkisinin incelenmesi. Journal of the Faculty of Engineering and Architecture of Gazi University, 2021, 37, 541-554.	0.3	2
94	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, 0, , 1-21.	1.2	2
95	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.	1.1	1
96	Comments on â€œReply to Letter to the Editor-in-Chiefâ€•by T. Erdik [1]. International Communications in Heat and Mass Transfer, 2009, 36, 532.	2.9	0
97	SoÄŸuk Åžartlar AltÄ±ndaki Bir Boruda MHD NanoakÄ±ÅŸkanÄ±n ZorlanmÄ±ÅŸ TaÅŸÄ±nÄ±m ile IsÄ± Transferi. FÄ±rat Ãœniversitesi MÃ¼hendislik Bilimleri Dergisi, 2021, 33, 303-313.	0.2	0
98	Manyetik Alan AltÄ±nda Al2O3-Su NanoakÄ±ÅŸkanÄ±n Ä°ncelenmesi. FÄ±rat Ãœniversitesi MÃ¼hendislik Bilimleri Dergisi, 0, , .	0.2	0
99	Experimental Study of Thin Layer Drying Behavior of a Fish. , 2014, , 681-686.		0
100	Numerically investigation of MHD liquid lithium flow under cooling conditions in a circular channel. Pamukkale University Journal of Engineering Sciences, 2018, 24, 30-35.	0.2	0
101	Reaktivite kontrollÃ¼ sÄ±kÄ±ÅŸtÄ±rma ateÅŸlemeli bir motorda motor devrinin yanma ve emisyon karakteristikleri Ã¼zerindeki etkisinin araÅŸtÄ±rÄ±lmasÄ±. FÄ±rat Ãœniversitesi MÃ¼hendislik Bilimleri Dergisi, 0, , .	0.2	0