

CITATION REPORT

List of articles citing

A review of entropy generation in nanofluid flow

DOI: 10.1016/j.ijheatmasstransfer.2013.06.010
International Journal of Heat and Mass Transfer, 2013,
65, 514-532.

Source: <https://exaly.com/paper-pdf/54972546/citation-report.pdf>

Version: 2024-04-24

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
385	An analytical study on entropy generation of nanofluids over a flat plate. 2013 , 52, 595-604		59
384	Numerical study of entropy generation due to coupled laminar and turbulent mixed convection and thermal radiation in an enclosure filled with a semitransparent medium. 2014 , 2014, 761745		71
383	Exergy Destruction in Pipeline Flow of Surfactant-Stabilized Oil-in-Water Emulsions. <i>Energies</i> , 2014 , 7, 7602-7619	3.1	7
382	Entropy Generation during Turbulent Flow of Zirconia-water and Other Nanofluids in a Square Cross Section Tube with a Constant Heat Flux. <i>Entropy</i> , 2014 , 16, 6116-6132	2.8	56
381	Entropy Generation in Flow of Highly Concentrated Non-Newtonian Emulsions in Smooth Tubes. <i>Entropy</i> , 2014 , 16, 5178-5197	2.8	3
380	The Entropic Potential Concept: a New Way to Look at Energy Transfer Operations. <i>Entropy</i> , 2014 , 16, 2071-2084	2.8	29
379	Evaluating Stability of Aqueous Multiwalled Carbon Nanotube Nanofluids by Using Different Stabilizers. 2014 , 2014, 1-15		26
378	Heat transfer and flow analysis of Al ₂ O ₃ /water nanofluids in microchannel with dimple and protrusion. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 73, 456-467	4.9	82
377	Heat transfer characteristics and pressure drop of COOH-functionalized DWCNTs/water nanofluid in turbulent flow at low concentrations. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 73, 186-194	4.9	144
376	Natural convection of Al ₂ O ₃ /water nanofluid in a square cavity: Effects of heterogeneous heating. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 74, 391-402	4.9	59
375	Experimental studies on the convective heat transfer performance and thermophysical properties of MgO/water nanofluid under turbulent flow. 2014 , 52, 68-78		180
374	Entropy generation of nanofluid flow with streamwise conduction in microchannels. 2014 , 64, 979-990		36
373	First and second laws analysis of a minichannel-based solar collector using boehmite alumina nanofluids: Effects of nanoparticle shape and tube materials. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 78, 1166-1176	4.9	101
372	MHD mixed convection of nanofluid filled partially heated triangular enclosure with a rotating adiabatic cylinder. 2014 , 45, 2150-2162		89
371	Performance analysis of turbulent convection heat transfer of Al ₂ O ₃ water-nanofluid in circular tubes at constant wall temperature. 2014 , 77, 403-413		75
370	Entropy generation during Al ₂ O ₃ /water nanofluid flow in a solar collector: Effects of tube roughness, nanoparticle size, and different thermophysical models. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 78, 64-75	4.9	150
369	Entropy generation analysis of nanofluids flow in various shapes of cross section ducts. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 57, 72-78	5.8	18

368	Temperature distribution and classical entropy generation analyses in an asymmetric cooling composite hollow cylinder with temperature-dependent thermal conductivity and internal heat generation. 2014 , 73, 484-496	18
367	Performance analysis of a minichannel-based solar collector using different nanofluids. 2014 , 88, 129-138	137
366	Numerical simulations of the effect of an isotropic heat field on the entropy generation due to natural convection in a square cavity. 2014 , 85, 333-342	36
365	Computational Analysis of Nanofluid Cooling of High Concentration Photovoltaic Cells. 2014 , 6,	50
364	Experimental Study on Nanofluid Flow in a Porous Cylinder: Viscosity, Permeability and Inertial Factor. 2015 , 362, 47-57	2
363	? Nanofluid Two-Phase Flow and Heat Transfer. 2015 , 379-404	5
362	Effects of circular corners and aspect-ratio on entropy generation due to natural convection of nanofluid flows in rectangular cavities. 2015 , 19, 1621-1632	7
361	Synthesis of polyethylene glycol-functionalized multi-walled carbon nanotubes with a microwave-assisted approach for improved heat dissipation. 2015 , 5, 35425-35434	41
360	Temperature and Entropy Generation Analyses Between and Inside Rotating Cylinders Using Copper/Water Nanofluid. 2015 , 137,	12
359	Second Law Analysis of Heat and Mass Transfer of Nanofluids Along a Plate With Prescribed Surface Heat Flux. 2015 , 137,	8
358	A review of entropy generation in microchannels. 2015 , 7, 168781401559029	36
357	Performance dependence of thermosyphon on the functionalization approaches: An experimental study on thermo-physical properties of graphene nanoplatelet-based water nanofluids. 2015 , 92, 322-330	112
356	Entropy generation of viscous dissipative flow in thermal non-equilibrium porous media with thermal asymmetries. 2015 , 89, 382-401	15
355	Effect of temperature jump on forced convective transport of nanofluids in the continuum flow and slip flow regimes. 2015 , 137, 730-739	21
354	MgO-Therminol 55 nanofluids for efficient energy management: Analysis of transient heat transfer performance. 2015 , 88, 408-416	25
353	Structural optimization of nanofluid flow around an equilateral triangular obstacle. 2015 , 88, 385-398	47
352	Analysis of entropy generation in double-diffusive natural convection of nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 87, 447-463	4-9 28
351	A Review on the Discrete Boltzmann Model for Nanofluid Heat Transfer in Enclosures and Channels. 2015 , 67, 463-488	17

350	Experimental study on the heat transfer and flow characteristics of nanorefrigerants inside a corrugated tube. 2015 , 56, 213-223		31
349	Investigation of heat transfer and pressure drop of a counter flow corrugated plate heat exchanger using MWCNT based nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 66, 172-179	5.8	163
348	Natural convection and entropy generation of nanofluid filled cavity having different shaped obstacles under the influence of magnetic field and internal heat generation. 2015 , 56, 42-56		117
347	Experimental investigation on the thermal efficiency and performance characteristics of a flat plate solar collector using SiO ₂ /EG/water nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 65, 71-75	5.8	127
346	Modeling and simulation of nanomaterials in fluids: nanoparticle self-assembly. 2015 , 419-441		
345	Entropy generation of viscous dissipative nanofluid convection in asymmetrically heated porous microchannels with solid-phase heat generation. 2015 , 105, 731-745		55
344	Entropy generation analysis of particle suspension induced by Couette flow. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 90, 499-504	4.9	7
343	Thermophysical and natural convection characteristics of ethylene glycol and water mixture based ZnO nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 91, 385-389	4.9	49
342	Effect of heated wall position on heat transfer and entropy generation of Cu/water nanofluid flow in an open cavity. 2015 , 93, 1615-1629		8
341	Experimental study of heat transfer and friction factor of Al ₂ O ₃ nanofluid in U-tube heat exchanger with helical tape inserts. 2015 , 62, 141-150		55
340	Energy, economic, and environmental analysis of a flat-plate solar collector operated with SiO ₂ nanofluid. 2015 , 17, 1457-1473		71
339	Entropy generation of viscous dissipative nanofluid flow in thermal non-equilibrium porous media embedded in microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 81, 862-877	4.9	97
338	Three-dimensional natural convection in a porous enclosure filled with a nanofluid using Buongiorno's mathematical model. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 82, 396-405	4.9	118
337	An experimental study of Cu/water nanofluid flow inside serpentine tubes with variable straight-section lengths. 2015 , 61, 1-11		22
336	Entropy generation analysis of magneto hydrodynamic flow of a nanofluid over a stretching sheet. 2015 , 23, 429-434		39
335	Magnetic field and slip effects on free convection inside a vertical enclosure filled with alumina/water nanofluid. 2015 , 94, 355-364		49
334	Analysis of Entropy Generation in Natural Convection of Nanofluid inside a Square Cavity Having Hot Solid Block: Tiwari and Das's Model. <i>Entropy</i> , 2016 , 18, 9	2.8	78
333	Mathematical Modeling and Computer Simulations of Nanofluid Flow with Applications to Cooling and Lubrication. 2016 , 1, 16		31

332	Natural Convection and Entropy Generation in Nanofluid Filled Entrapped Trapezoidal Cavities under the Influence of Magnetic Field. <i>Entropy</i> , 2016 , 18, 43	2.8	52
331	Sensitivity Analysis of Entropy Generation in Nanofluid Flow inside a Channel by Response Surface Methodology. <i>Entropy</i> , 2016 , 18, 52	2.8	35
330	Analysis of Entropy Generation in the Flow of Peristaltic Nanofluids in Channels With Compliant Walls. <i>Entropy</i> , 2016 , 18, 90	2.8	62
329	Entropy Generation on MHD Blood Flow of Nanofluid Due to Peristaltic Waves. <i>Entropy</i> , 2016 , 18, 117	2.8	59
328	Heat Transfer Enhancement and Entropy Generation of Nanofluids Laminar Convection in Microchannels with Flow Control Devices. <i>Entropy</i> , 2016 , 18, 134	2.8	30
327	3D Buoyancy-Induced Flow and Entropy Generation of Nanofluid-Filled Open Cavities Having Adiabatic Diamond Shaped Obstacles. <i>Entropy</i> , 2016 , 18, 232	2.8	36
326	Theoretical analysis of entropy generation in peristaltic transport of nanofluid in an asymmetric channel. 2016 , 20, 294		8
325	An experimental study on rheological behavior of non-Newtonian hybrid nano-coolant for application in cooling and heating systems. 2016 , 76, 221-227		160
324	Rheological Property and Thermal Conductivity of Multi-walled Carbon Nano-tubes-dispersed Non-Newtonian Nano-fluids Based on an Aqueous Solution of Carboxymethyl Cellulose. 2016 , 29, 378-391		6
323	Entropy generation analysis of a nanofluid flow in MHD porous microchannel with hydrodynamic slip and thermal radiation. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 100, 89-97	4.9	80
322	Second law analysis of a nanofluid-based solar collector using experimental data. 2016 , 126, 617-625		69
321	Viscosity of nanofluids: A review of recent experimental studies. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 73, 114-123	5.8	216
320	Specific heat control of nanofluids: A critical review. <i>International Journal of Thermal Sciences</i> , 2016 , 107, 25-38	4.1	77
319	A thermodynamic analysis of forced convection through porous media using pore scale modeling. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 99, 303-316	4.9	43
318	Natural convection of silica nanofluids in square and triangular enclosures: Theoretical and experimental study. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 99, 792-804	4.9	92
317	An explanation of the Al ₂ O ₃ nanofluid thermal conductivity based on the phonon theory of liquid. 2016 , 116, 786-794		80
316	Performance evaluation on vacuum pumps using nanolubricants. 2016 , 30, 4275-4283		5
315	Nanoemulsions: Biobased Oil Nanoemulsion Preparation, Characterization, and Application. 2016 , 714-729		

314	Theoretical analysis of thermal performance in a plate type liquid heat exchanger using various nanofluids based on LiBr solution. <i>Applied Thermal Engineering</i> , 2016 , 108, 1020-1032	5.8	26
313	Convective Heat Transfer Enhancement with Nanofluids: A State-of-the-Art Review. 2016 , 55-98		
312	Development of a model for entropy generation of water-TiO ₂ nanofluid flow considering nanoparticle migration within a minichannel. 2016 , 157, 16-28		15
311	Impact of Entropy Generation on Stagnation-Point Flow of Sutterby Nanofluid: A Numerical Analysis. 2016 , 71, 837-848		20
310	Characteristics of Flow Boiling Heat Transfer and Pressure Drop of MWCNT ₁₂₃ Nanorefrigerant: Experimental Investigations and Correlations. 2016 , 20, 97-120		20
309	Theoretical analysis of pool boiling characteristics of Al ₂ O ₃ nanofluid according to volume concentration and nanoparticle size. <i>Applied Thermal Engineering</i> , 2016 , 108, 158-171	5.8	15
308	Influence of magnetic field on natural convection and entropy generation in Cu ₂ Water nanofluid-filled cavity with wavy surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 101, 637-647	4.9	38
307	Numerical investigation of heat transfer enhancement from a protruded surface by cross-flow jet using Al ₂ O ₃ Water nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 101, 550-561	4.9	12
306	Forced convective transport of alumina ₂ Water nanofluid in micro-channels subject to constant heat flux. 2016 , 152, 311-322		13
305	First and second law analyses of nanofluid forced convection in a partially-filled porous channel □ The effects of local thermal non-equilibrium and internal heat sources. <i>Applied Thermal Engineering</i> , 2016 , 103, 459-480	5.8	61
304	Theoretical investigation of entropy generation and heat transfer by forced convection of copper ₂ Water nanofluid in a porous channel □ Local thermal non-equilibrium and partial filling effects. <i>Powder Technology</i> , 2016 , 301, 234-254	5.2	50
303	Generation of entropy and forced convection of heat in a conduit partially filled with porous media □ Local thermal non-equilibrium and exothermicity effects. <i>Applied Thermal Engineering</i> , 2016 , 106, 518-536	5.8	48
302	Particle migration in nanofluids: A critical review. <i>International Journal of Thermal Sciences</i> , 2016 , 109, 90-113	4.1	129
301	MHD mixed convection and entropy generation of nanofluid filled lid driven cavity under the influence of inclined magnetic fields imposed to its upper and lower diagonal triangular domains. 2016 , 406, 266-281		140
300	Numerical study of convective heat transfer of nanofluids: A review. 2016 , 54, 1212-1239		179
299	Critical heat balance error for heat exchanger experiment based on entropy generation method. <i>Applied Thermal Engineering</i> , 2016 , 94, 644-649	5.8	17
298	Heat transfer and entropy generation analysis of turbulent flow of TiO ₂ -water nanofluid inside annuli with different radius ratios using two-phase mixture model. <i>Applied Thermal Engineering</i> , 2016 , 100, 1149-1160	5.8	56
297	MHD mixed convection and entropy generation of power law fluids in a cavity with a partial heater under the effect of a rotating cylinder. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 98, 40-51	4.9	67

296	Entropy generation in thermal systems with solid structures – A concise review. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 97, 917-931	4.9	51
295	A new semi-analytical model for effective thermal conductivity of nanofluids. 2016 , 54, 647-662		3
294	Investigating non-Newtonian nanofluid flow in a narrow annulus based on second law of thermodynamics. <i>Journal of Molecular Liquids</i> , 2016 , 219, 117-127	6	47
293	Nanofluid flow and heat transfer in a microchannel with longitudinal vortex generators: Two-phase numerical simulation. <i>Applied Thermal Engineering</i> , 2016 , 100, 179-189	5.8	41
292	Prediction of entropy generation for nanofluid flow through a triangular minichannel using neural network. 2016 , 27, 673-683		32
291	Natural convection and entropy generation of Al ₂ O ₃ /water nanofluid in an inclined wavy-wall cavity. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 97, 511-520	4.9	40
290	Effects of Magnetic Field on an Unsteady Mixed Convection Flow of Nanofluids Containing Spherical and Cylindrical Nanoparticles. 2016 , 138,		7
289	Designing a microchannel heat sink with colloidal coolants through the entropy generation minimisation criterion and global optimisation algorithms. <i>Applied Thermal Engineering</i> , 2016 , 100, 1052-1062	5.8	25
288	Thermal conductivity, viscosity and stability of Al ₂ O ₃ -diathermic oil nanofluids for solar energy systems. 2016 , 95, 124-136		132
287	A numerical study of heat transfer characteristics of CuO/water nanofluid by Euler-Lagrange approach. 2016 , 123, 1591-1599		31
286	Numerical investigations of laminar heat transfer and flow performance of Al ₂ O ₃ /water nanofluids in a flat tube. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 92, 268-282	4.9	69
285	A study of entropy generation in tree-shaped flow structures. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 92, 349-359	4.9	27
284	Entropy Generation of Nanofluid in a Porous Cavity by Lattice Boltzmann Method. <i>Journal of Thermophysics and Heat Transfer</i> , 2017 , 31, 20-27	1.3	17
283	MHD forced convection and entropy generation of CuO-water nanofluid in a microchannel considering slip velocity and temperature jump. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017 , 39, 775-790	2	46
282	Impact of thermophoresis on nanoparticle distribution in nanofluids. 2017 , 7, 136-138		12
281	On mixed convection of two immiscible layers with a layer of non-Newtonian nanofluid in a vertical channel. <i>Powder Technology</i> , 2017 , 310, 351-358	5.2	16
280	Numerical analysis of thermal hydraulic performance of Al ₂ O ₃ /H ₂ O nanofluid flowing through a protrusion obstacles square mini channel. <i>Case Studies in Thermal Engineering</i> , 2017 , 9, 108-121	5.6	16
279	Natural convection of SiO ₂ -water nanofluid in square cavity with thermal square column. 2017 , 38, 585-602		4

278	CFD simulation of irreversibilities for laminar flow of a power-law nanofluid within a minichannel with chaotic perturbations: An innovative energy-efficient approach. 2017 , 144, 374-387		64
277	Thermodynamic analysis of a solar dish receiver using different nanofluids. 2017 , 133, 749-760		81
276	Efficacy of an eco-friendly nanofluid in a miniature heat exchanger regarding to arrangement of silver nanoparticles. 2017 , 144, 224-234		38
275	Experimental investigation of heat transfer and pressure drop characteristics of non-Newtonian nanofluids flowing in the shell-side of a helical baffle heat exchanger with low-finned tubes. 2017 , 53, 2813-2827		8
274	Entropy generation vs energy efficiency for natural convection based energy flow in enclosures and various applications: A review. 2017 , 80, 1412-1457		52
273	Numerical investigation of entropy generation to predict irreversibilities in nanofluid flow within a microchannel: Effects of Brownian diffusion, shear rate and viscosity gradient. 2017 , 172, 52-65		47
272	Thermodynamic Analysis of Al_2O_3 Water Nanofluid Flow in an Open Cavity Under Pulsating Inlet Condition. <i>International Journal of Applied and Computational Mathematics</i> , 2017 , 3, 489-510	1.3	12
271	An experimental study on heat transfer and pressure drop of water/graphene oxide nanofluid in a copper tube under air cross-flow: Applicable as a heat exchanger. <i>Applied Thermal Engineering</i> , 2017 , 125, 69-79	5.8	86
270	Challenges and progress on the modelling of entropy generation in porous media: A review. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 114, 31-46	4.9	62
269	Artificial neural network modeling of nanofluid flow in a microchannel heat sink using experimental data. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 86, 25-31	5.8	57
268	Heat and mass transfer characteristics of carbon nanotube nanofluids: A review. 2017 , 80, 914-941		75
267	Entropy generation on MHD flow and convective heat transfer in a porous medium of exponentially stretching surface saturated by nanofluids. 2017 , 28, 1519-1530		68
266	Experimental evaluation of flat plate solar collector using nanofluids. 2017 , 134, 103-115		143
265	Nanofluid flow and heat transfer in porous media: A review of the latest developments. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 107, 778-791	4.9	242
264	Investigation of different nanofluids effect on entropy generation on natural convection in a porous cavity. 2017 , 62, 86-93		38
263	Three dimensional simulation of natural convection and entropy generation in an air and MWCNT/water nanofluid filled cuboid as two immiscible fluids with emphasis on the nanofluid height ratio's effects. <i>Journal of Molecular Liquids</i> , 2017 , 227, 223-233	6	76
262	Influence of T-semi attached rib on turbulent flow and heat transfer parameters of a silver-water nanofluid with different volume fractions in a three-dimensional trapezoidal microchannel. 2017 , 88, 60-76		154
261	3D numerical analysis of natural convection and entropy generation within tilted rectangular enclosures filled with stratified fluids of MWCNTs/water nanofluid and air. 2017 , 80, 624-638		25

260	Characterization of PVT systems equipped with nanofluids-based collector from entropy generation. 2017 , 150, 515-531		49
259	Optimal selection of annulus radius ratio to enhance heat transfer with minimum entropy generation in developing laminar forced convection of water-Al ₂ O ₃ nanofluid flow. 2017 , 24, 1850-1865		43
258	Toward TiO Nanofluids-Part 2: Applications and Challenges. 2017 , 12, 446		19
257	Numerical analysis of Al ₂ O ₃ /water nano-fluids natural convection and entropy generation in enclosures. 2017 , 78, 34802		1
256	Application of a novel biological nanofluid in a liquid block heat sink for cooling of an electronic processor: Thermal performance and irreversibility considerations. 2017 , 149, 155-167		95
255	Experimental investigation of the effects of using metal-oxides/water nanofluids on a photovoltaic thermal system (PVT) from energy and exergy viewpoints. 2017 , 138, 682-695		116
254	Entropy production in a box: Analysis of instabilities in confined hydrothermal systems. 2017 , 53, 7716-7739		3
253	A numerical study of magnetohydrodynamics flow in Casson nanofluid combined with Joule heating and slip boundary conditions. 2017 , 7, 3037-3048		54
252	The Monte Carlo based virtual entropy generation analysis. <i>Applied Thermal Engineering</i> , 2017 , 126, 915-939		9
251	Optimizing energy efficiency of a specific liquid block operated with nanofluids for utilization in electronics cooling: A decision-making based approach. 2017 , 154, 180-190		52
250	MHD nanofluid free convection and entropy generation in porous enclosures with different conductivity ratios. 2017 , 442, 474-490		103
249	Experimental measurement of dynamic concentration of nanofluid in laminar flow. 2017 , 88, 483-489		7
248	Entropy generation analysis of MHD nanofluid flow in a porous vertical microchannel with nonlinear thermal radiation, slip flow and convective-radiative boundary conditions. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 107, 982-994	4.9	109
247	Heat transfer and entropy generation analysis of HFE 7000 based nanorefrigerants. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 104, 318-327	4.9	25
246	Analyses of exergy efficiency for forced convection heat transfer in a tube with CNT nanofluid under laminar flow conditions. 2017 , 53, 1503-1516		12
245	Thermofluidic characteristics of combined electroosmotic and pressure driven flows in narrow confinements in presence of spatially non-uniform magnetic field. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 104, 1325-1340	4.9	13
244	Entropy Generation in a Circular Tube Heat Exchanger Using Nanofluids: Effects of Different Modeling Approaches. 2017 , 38, 853-866		102
243	Optimum Interaction Between Magnetohydrodynamics and Nanofluid for Thermal and Drag Management. <i>Journal of Thermophysics and Heat Transfer</i> , 2017 , 31, 218-229	1.3	31

242	Virtual entropy generation (VEG) method in experiment reliability control: Implications for heat exchanger measurement. <i>Applied Thermal Engineering</i> , 2017 , 110, 1476-1482	5.8	20
241	Experimental exergy analysis for shell and tube heat exchanger made of corrugated shell and corrugated tube. 2017 , 81, 475-481		42
240	ENTROPY GENERATION FOR A NON-NEWTONIAN SHEAR THINNING FLUID WITH VISCOUS HEATING EFFECTS. 2017 , 41, 593-607		1
239	Effect of volume fraction on entropy generation in Cu-Water nanofluid in cavity with chamfer in the presence of magnetic field. 2017 ,		0
238	Experimental and Numerical Investigation on Non-Newtonian Nanofluids Flowing in Shell Side of Helical Baffled Heat Exchanger Combined with Elliptic Tubes. 2017 , 7, 48		10
237	Effects of Movable-Baffle on Heat Transfer and Entropy Generation in a Cavity Saturated by CNT Suspensions: Three-Dimensional Modeling. <i>Entropy</i> , 2017 , 19, 200	2.8	27
236	Natural Convection and Entropy Generation in a Square Cavity with Variable Temperature Side Walls Filled with a Nanofluid: Buongiorno's Mathematical Model. <i>Entropy</i> , 2017 , 19, 337	2.8	25
235	A Numerical Study on Entropy Generation in Two-Dimensional Rayleigh-Bénard Convection at Different Prandtl Number. <i>Entropy</i> , 2017 , 19, 443	2.8	13
234	Entropy Generation Analysis and Performance Evaluation of Turbulent Forced Convective Heat Transfer to Nanofluids. <i>Entropy</i> , 2017 , 19, 108	2.8	26
233	Reply to comments on "Optimization and parametric analysis of a nanofluid based photovoltaic thermal system: 3D numerical model with experimental validation" energy conversion and management (2018); 160: 93-108, by M. Hosseinzadeh, A. Salari, M. Sardarabadi, M. Passandideh-Fard. 2018 , 164, 682-685		
232	Effect of retrofitting a silver/water nanofluid-based photovoltaic/thermal (PV/T) system with a PCM-thermal battery for residential applications. 2018 , 122, 98-107		48
231	Convective heat transfer and entropy generation analysis of non-Newtonian power-law fluid flows in parallel-plate and circular microchannels under slip boundary conditions. <i>International Journal of Thermal Sciences</i> , 2018 , 128, 15-27	4.1	37
230	Effects of Magnetohydrodynamics on Natural Convection and Entropy Generation with Nanofluids. <i>Journal of Thermophysics and Heat Transfer</i> , 2018 , 32, 1059-1071	1.3	13
229	Irreversibility characteristics of nanofluid flow under chaotic advection in a minichannel for different nanoparticle types. 2018 , 88, 25-36		18
228	Entropy generation analysis for convective heat transfer of nanofluids in tree-shaped network flowing channels. 2018 , 5, 546-554		11
227	Mixed Convection in a Cavity Saturated with Wavy Layer Porous Medium: Entropy Generation. <i>Journal of Thermophysics and Heat Transfer</i> , 2018 , 32, 764-780	1.3	12
226	Heat transfer and entropy generation analysis of a protruded surface in presence of a cross-flow jet using Al ₂ O ₃ -water nanofluid. 2018 , 5, 327-338		9
225	Heat transfer and entropy generation of mixed convection flow in Cu-water nanofluid-filled lid-driven cavity with wavy surface. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 119, 163-174	4.9	30

224	Investigation of the combination of TiO ₂ nanoparticles and drag reducer polymer effects on the heat transfer and drag characteristics of nanofluids. 2018 , 96, 1430-1440		7
223	Effects of partial slip on entropy generation and MHD combined convection in a lid-driven porous enclosure saturated with a Cu-water nanofluid. 2018 , 132, 1291-1306		71
222	The heat transfer performances and entropy generation analysis of hybrid nanofluids in a flattened tube. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 119, 813-827	4.9	67
221	Recent research contributions concerning use of nanofluids in heat exchangers: A critical review. <i>Applied Thermal Engineering</i> , 2018 , 133, 137-159	5.8	149
220	Exergetic performance comparison of air and hydrogen gas flowing through the annular curved duct. 2018 , 43, 10859-10868		3
219	Change of Thermal Conductivity and Cooling Performance for Water Based Al ₂ O ₃ -Surfactant Nanofluid with Time Lapse. 2018 , 26, 1850009		6
218	Entropy generation in a mixed convection Poiseuille flow of molybdenum disulphide Jeffrey nanofluid. 2018 , 9, 947-954		23
217	Entropy generation of nanofluid flow in a microchannel heat sink. 2018 , 9, 615-624		47
216	Mixed convection heat transfer of double immiscible fluids in functional gradient material preparation. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 121, 812-818	4.9	3
215	Enhancement of Heat Transfer in Partially Heated Vertical Channel Under Mixed Convection by Using Al ₂ O ₃ Nanoparticles. 2018 , 39, 229-240		9
214	Applications of nanofluids in solar energy: A review of recent advances. 2018 , 82, 3483-3502		216
213	Nanofluid and porous fins effect on natural convection and entropy generation of flow inside a cavity. 2018 , 29, 142-156		100
212	Entropy generation analysis of nanofluid flow over a spherical heat source inside a channel with sudden expansion and contraction. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 116, 1036-1043	4.9	38
211	Progress in enhancement of CO ₂ absorption by nanofluids: A mini review of mechanisms and current status. 2018 , 118, 527-535		187
210	A review of numerical studies on solar collectors integrated with latent heat storage systems employing fins or nanoparticles. 2018 , 118, 761-778		71
209	Combined effects of nanofluid and transverse twisted-baffles on the flow structures, heat transfer and irreversibilities inside a square duct [A numerical study. <i>Applied Thermal Engineering</i> , 2018 , 130, 135-148	5.8	73
208	Combined impact of viscosity variation and Lorentz force on slip flow of radiative nanofluid towards a vertical stretching surface with convective heat and mass transfer. 2018 , 57, 3189-3197		4
207	MHD Free Convection and Entropy Generation in a Corrugated Cavity Filled with a Porous Medium Saturated with Nanofluids. <i>Entropy</i> , 2018 , 20,	2.8	44

206	Entropy generation under the influence of radial magnetic field and viscous dissipation of generalized Couette flow in an annulus. 2018 , 7, 342-352		3
205	MHD Mixed Convection and Entropy Generation in a Lid-Driven Triangular Cavity for Various Electrical Conductivity Models. <i>Entropy</i> , 2018 , 20,	2.8	8
204	Entropy Generation Rates in Two-Dimensional Rayleigh-Taylor Turbulence Mixing. <i>Entropy</i> , 2018 , 20,	2.8	6
203	Heat transfer and entropy generation analysis of Cu-water nanofluid in a vertical channel. 2018 , 15, 604-613		1
202	Non-local entropy evolution in heat exchangers with elliptical and circular tube geometries. <i>International Journal of Thermal Sciences</i> , 2018 , 134, 601-611	4.1	5
201	Two-phase lattice Boltzmann simulation of natural convection in a Cu-water nanofluid-filled porous cavity: Effects of thermal boundary conditions on heat transfer and entropy generation. 2018 , 29, 2707-2724		27
200	CFD simulation of nanofluid forced convection inside a three-dimensional annulus by two-phase mixture approach: Heat transfer and entropy generation analyses. <i>International Journal of Mechanical Sciences</i> , 2018 , 146-147, 396-404	5.5	22
199	Entropy Generation Analysis of Laminar Flows of Water-Based Nanofluids in Horizontal Minutubes under Constant Heat Flux Conditions. <i>Entropy</i> , 2018 , 20,	2.8	9
198	Entropy in Nanofluids. <i>Entropy</i> , 2018 , 20,	2.8	4
197	Numerical Study on Entropy Generation in Thermal Convection with Differentially Discrete Heat Boundary Conditions. <i>Entropy</i> , 2018 , 20,	2.8	9
196	Investigation of nanofluid entropy generation in a heat exchanger with helical twisted tapes. <i>Journal of Molecular Liquids</i> , 2018 , 266, 797-805	6	62
195	Correlation of entropy generation of peristaltic flow of nanofluid under the influence of MHD: This paper provides the graphical solution of highly non linear coupled partial differential equation of entropy generation on peristaltic wave of Nanofluid and the correlation of entropy generation with some pertinent parameters. 2018 ,		1
194	Electronics cooling with nanofluids: A critical review. 2018 , 172, 438-456		149
193	Thermal performance and second law characteristics of two new microchannel heat sinks operated with hybrid nanofluid containing graphene-silver nanoparticles. 2018 , 168, 357-370		89
192	Investigating exergy destruction and entropy generation for flow of a new nanofluid containing graphene-silver nanocomposite in a micro heat exchanger considering viscous dissipation. <i>Powder Technology</i> , 2018 , 336, 298-310	5.2	56
191	Effect of interfacial thermal resistance and nanolayer on estimates of effective thermal conductivity of nanofluids. <i>Case Studies in Thermal Engineering</i> , 2018 , 12, 454-461	5.6	11
190	Numerical study of mixed convection heat transfer inside a vertical microchannel with two-phase approach. 2019 , 135, 1119-1134		20
189	Entropy Generation in Different Types of Fractionalized Nanofluids. 2019 , 44, 531-540		24

188	Conjugated heat transfer and entropy generation of Al ₂ O ₃ -water nanofluid flows over a heated wall-mounted obstacle. 2019 , 135, 963-979		17
187	Optimization of MHD nanofluid flow in a vertical microchannel with a porous medium, nonlinear radiation heat flux, slip flow and convective-radiative boundary conditions. 2019 , 135, 3401-3420		28
186	Statistical Analysis of the Mathematical Model of Entropy Generation of Magnetized Nanofluid. 2019 , 4, 32		5
185	Effect of sonication characteristics on stability, thermophysical properties, and heat transfer of nanofluids: A comprehensive review. 2019 , 58, 104701		120
184	Entropy generation and regression analysis on stagnation point flow of Casson nanofluid with Arrhenius activation energy. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019 , 41, 1	2	14
183	Two-phase modeling of nanofluid forced convection in different arrangements of elliptical tube banks. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 30, 1937-1966	4.5	2
182	Efficiency assessment of using graphene nanoplatelets-silver/water nanofluids in microchannel heat sinks with different cross-sections for electronics cooling. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 30, 347-372	4.5	68
181	Natural convection in a nanofluid-filled cavity with solid particles in an inner cross shape using ISPH method. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 141, 390-406	4.9	18
180	MHD graphene-polydimethylsiloxane Maxwell nanofluid flow in a squeezing channel with thermal radiation effects. 2019 , 40, 1269-1284		18
179	Effects of Prandtl Number on Natural Convection in a Cavity Filled with Silver/Water Nanofluid-Saturated Porous Medium and Non-Newtonian Fluid Layers Separated by Sinusoidal Vertical Interface. 2019 , 44, 10339-10354		9
178	Second law analysis of a hybrid nanofluid in tubes equipped with double twisted tape inserts. <i>Powder Technology</i> , 2019 , 345, 692-703	5.2	61
177	Numerical investigation on the forced laminar convection heat transfer of Al ₂ O ₃ -water nanofluid within a three-dimensional asymmetric heated channel. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 29, 1132-1152	4.5	4
176	Entropy generation analysis of nanofluid forced convection in MHD plane diffuser. 2019 , 75, 627-645		3
175	Generation of entropy during forced convection of heat in nanofluid stagnation-point flows over a cylinder embedded in porous media. 2019 , 75, 647-673		32
174	Effect of boundary conditions on heat transfer and entropy generation during two-phase mixed convection hybrid Al ₂ O ₃ -Cu/water nanofluid flow in a cavity. <i>International Journal of Mechanical Sciences</i> , 2019 , 157-158, 45-59	5.5	32
173	Effects of Radiative Electro-Magnetohydrodynamics Diminishing Internal Energy of Pressure-Driven Flow of Titanium Dioxide-Water Nanofluid due to Entropy Generation. <i>Entropy</i> , 2019 , 21,	2.8	72
172	Review of single-phase and two-phase nanofluid heat transfer in macro-channels and micro-channels. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 136, 324-354	4.9	90
171	Entropy generation on the interaction of nanoparticles over a stretched surface with thermal radiation. 2019 , 570, 368-376		45

170	An analytical study of entropy generation in rectangular natural convective porous fins. 2019 , 11, 142-149		20
169	An Investigation on the Forced Convection of Al ₂ O ₃ -water Nanofluid Laminar Flow in a Microchannel Under Interval Uncertainties. 2019 , 9, 432		7
168	Entropy and entransy in convective heat transfer optimization: A review and perspective. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 137, 1191-1220	4.9	44
167	Investigation of the nanofluid convective flow and entropy generation within a microchannel heat sink involving magnetic field. <i>Powder Technology</i> , 2019 , 351, 195-202	5.2	23
166	Enhancement of heat transfer of nanofluids in the presence of sinusoidal side obstacles between two parallel plates through the lattice Boltzmann method. <i>International Journal of Mechanical Sciences</i> , 2019 , 156, 159-169	5.5	18
165	Three-dimensional modelling of natural convection and entropy generation in a vertical cylinder under heterogeneous heat flux using nanofluids. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 30, 119-142	4.5	15
164	Entropy generation in MHD nanofluid flow with heat source/sink. 2019 , 1, 1		2
163	Exergy in Photovoltaic/Thermal Nanofluid-Based Collector Systems. 2019 ,		6
162	Study of the heat transfer characteristics and entropy generation rate for the reacting flows inside tubes. <i>Applied Thermal Engineering</i> , 2019 , 149, 1435-1444	5.8	3
161	Optimal design of geometrical parameters and flow characteristics for Al ₂ O ₃ /water nanofluid inside corrugated heat exchangers by using entropy generation minimization and genetic algorithm methods. <i>Applied Thermal Engineering</i> , 2019 , 149, 889-898	5.8	32
160	Effect of non-uniform asymmetric heating on the thermal and entropy generation characteristics for flow of Al ₂ O ₃ -water nanofluid in a micro-channel. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 29, 981-999	4.5	21
159	Irreversibility analysis of the three dimensional flow of carbon nanotubes due to nonlinear thermal radiation and quartic chemical reactions. <i>Journal of Molecular Liquids</i> , 2019 , 274, 379-392	6	58
158	Energetic and entropic analyses of double-diffusive, forced convection heat and mass transfer in microreactors assisted with nanofluid. 2019 , 137, 637-658		38
157	Multi-criterion optimization of thermohydraulic performance of a mini pin fin heat sink operated with ecofriendly graphene nanoplatelets nanofluid considering geometrical characteristics. <i>Journal of Molecular Liquids</i> , 2019 , 276, 653-666	6	21
156	Recent advances in modeling and simulation of nanofluid flows-Part I: Fundamentals and theory. 2019 , 790, 1-48		495
155	Review on heat conduction, heat convection, thermal radiation and phase change heat transfer of nanofluids in porous media: Fundamentals and applications. 2019 , 195, 462-483		163
154	A decision-making based method to optimize energy efficiency of ecofriendly nanofluid flow inside a new heat sink enhanced with flow distributor. <i>Powder Technology</i> , 2019 , 342, 85-98	5.2	22
153	First and second laws of thermodynamics analysis of nanofluid flow inside a heat exchanger duct with wavy walls and a porous insert. 2019 , 135, 177-194		68

152	Mixed convection and thermodynamic irreversibilities in MHD nanofluid stagnation-point flows over a cylinder embedded in porous media. 2019 , 135, 489-506		45
151	Analysis of mixed convection and entropy generation of nanofluid filled triangular enclosure with a flexible sidewall under the influence of a rotating cylinder. 2019 , 135, 911-923		5
150	Effects of radiation and magnetic field on mixed convection stagnation-point flow over a cylinder in a porous medium under local thermal non-equilibrium. 2020 , 140, 1371-1391		32
149	Heat transfer analysis of unsteady MHD rotating graphene oxide water nanofluid flow. 2020 , 18, 193-199		
148	Thermal conductivity prediction of nanofluids containing CuO nanoparticles by using correlation and artificial neural network. 2020 , 139, 2679-2689		101
147	Efficient hybrid microjet liquid cooled heat sinks made of photopolymer resin: thermo-fluid characteristics and entropy generation analysis. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 146, 118844	4.9	11
146	A comprehensive investigation of finding the best location for hot steam injection into the wet steam turbine blade cascade. 2020 , 190, 116397		11
145	Thermohydraulic sensitivity analysis and multi-objective optimization of Fe ₃ O ₄ /H ₂ O nanofluid flow inside U-bend heat exchangers with longitudinal strip inserts. <i>Applied Thermal Engineering</i> , 2020 , 164, 114518	5.8	22
144	Thermodynamic irreversibility and conjugate effects of integrated microchannel cooling device using TiO ₂ nanofluid. 2020 , 56, 489-505		9
143	Analysis of mixed convection in a sloshing porous cavity filled with a nanofluid using ISPH method. 2020 , 139, 1977-1991		22
142	A numerical approach on hybrid nanofluid behavior in laminar duct flow with various cross sections. 2020 , 140, 2097-2110		9
141	Second law analysis of a porous structured enclosure with nano-enhanced phase change material and under magnetic force. 2020 , 140, 2585-2599		16
140	Entropy generation and economic analyses in a nanofluid filled L-shaped enclosure subjected to an oriented magnetic field. <i>Applied Thermal Engineering</i> , 2020 , 168, 114789	5.8	49
139	Nanofluid based photovoltaic thermal systems integrated with phase change materials: Numerical simulation and thermodynamic analysis. 2020 , 205, 112384		67
138	Mixed convection nanofluid flow in a non-Darcy porous medium with variable permeability: entropy generation analysis. 2020 , 95, 2095		2
137	Entropy generation in concentric annuli of 400 kV gas-insulated transmission line. 2020 , 19, 100614		5
136	A two-phase closed thermosyphon operated with nanofluids for solar energy collectors: Thermodynamic modeling and entropy generation analysis. 2020 , 211, 192-209		18
135	The potential benefits of surface corrugation and hybrid nanofluids in channel flow on the performance enhancement of a thermo-electric module in energy systems. 2020 , 213, 118520		15

134	Entropy generation minimization and nonlinear heat transport in MHD flow of a couple stress nanofluid through an inclined permeable channel with a porous medium, thermal radiation and slip. <i>Heat Transfer</i> , 2020 , 49, 4878-4906	3.1	5
133	State of the Art of Techno-Economics of Nanofluid-Laden Flat-Plate Solar Collectors for Sustainable Accomplishment. 2020 , 12, 9119		4
132	Entropy generation rate analysis in pendulum cart system undergoing damped oscillation. 2020 , 31, 217		
131	Magneto-fluid dynamic and second law analysis in a hot porous cavity filled by nanofluid and nano-encapsulated phase change material suspension with different layout of cooling channels. <i>Journal of Energy Storage</i> , 2020 , 31, 101720	7.8	24
130	Analysis of geometric uncertainties in CFD problems solved by RBF-FD meshless method. 2020 , 421, 109730		2
129	Entropy generation analysis of triple diffusive flow past a horizontal plate in porous medium. 2020 , 228, 115980		18
128	Second law analysis of magneto-natural convection in a nanofluid filled wavy-hexagonal porous enclosure. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020 , 30, 4811-4836	4.5	56
127	Numerical study of magnetohydrodynamic mixed convection and entropy generation of Al ₂ O ₃ -water nanofluid in a channel with two facing cavities with discrete heating. 2020 , 86, 108713		13
126	Effect of conjugate heat transfer on the thermo-electro-hydrodynamics of nanofluids: entropy optimization analysis. 2020 , 1		6
125	Entropy generation in hydromagnetic nanofluids flow inside a tilted square enclosure under local thermal nonequilibrium condition. 2020 , 5-6, 100031		14
124	Entropy generation in an unsteady Eyring-Powell hybrid nanofluid flow over a permeable surface: A Lie group analysis. <i>Heat Transfer</i> , 2020 , 49, 3374-3390	3.1	6
123	Second law analysis of hybrid nanofluid flow in a microchannel heat sink integrated with ribs and secondary channels for utilization in miniature thermal devices. 2020 , 153, 107963		16
122	Thermal and exergy analysis of air- nanofluid bubbly flow in a double-pipe heat exchanger. <i>Powder Technology</i> , 2020 , 372, 563-577	5.2	20
121	Time Evolution Features of Entropy Generation Rate in Turbulent Rayleigh-BBard Convection with Mixed Insulating and Conducting Boundary Conditions. <i>Entropy</i> , 2020 , 22,	2.8	1
120	A Comprehensive Review on Theoretical Aspects of Nanofluids: Exact Solutions and Analysis. 2020 , 12, 725		7
119	Carbon Nanomaterial-Based Nanofluids for Direct Thermal Solar Absorption. 2020 , 10,		24
118	On a selection of the applications of thermodynamics. 2020 , 383-412		
117	Analysis of hydro-thermal and entropy generation characteristics of nanofluid in an aluminium foam heat sink by employing Darcy-Forchheimer-Brinkman model coupled with multiphase Eulerian model. <i>Applied Thermal Engineering</i> , 2020 , 173, 115231	5.8	27

116	Sonication time efficacy on FeO-liquid paraffin magnetic nanofluid thermal conductivity: An experimental evaluation. 2020 , 64, 105004		16
115	Magnetohydrodynamic Mixed Convection and Entropy Analysis of Nanofluid in Gamma-Shaped Porous Cavity. <i>Journal of Thermophysics and Heat Transfer</i> , 2020 , 34, 836-847	1.3	55
114	Numerical analysis of entropy generation in a square cavity filled with boron-water nanofluid. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020 , 42, 1	2	3
113	Employing V-shaped ribs and nanofluid as two passive methods to improve second law characteristics of flow within a square channel: A two-phase approach. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 151, 119419	4.9	22
112	Emerging challenges in the thermal management of cellulose nanofibril-based supercapacitors, lithium-ion batteries and solar cells: A review. 2020 , 234, 115888		67
111	Entropy generation of nanofluid and hybrid nanofluid flow in thermal systems: A review. <i>Journal of Molecular Liquids</i> , 2020 , 302, 112533	6	112
110	Effect of a micro heat sink geometric design on thermo-hydraulic performance: A review. <i>Applied Thermal Engineering</i> , 2020 , 170, 114974	5.8	50
109	Optimal heating strategy for minimization of peak temperature and entropy generation for forced convective flow through a circular pipe. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 150, 119318	4.9	17
108	Entropy generation analysis of different solar thermal systems. 2020 , 27, 20699-20724		24
107	A comprehensive thermo-hydraulic analysis and optimization of turbulent TiO ₂ /W-EG nano-fluid flow inside double-pipe heat exchangers with helical coil inserts. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020 , 42, 1	2	4
106	Entropy generation on magneto-convective flow of copper-water nanofluid in a cavity with chamfers. 2021 , 143, 2203-2214		75
105	Thermo-hydraulic analysis and optimization of CuO/water nanofluid inside helically dimpled heat exchangers. 2021 , 143, 4009-4024		19
104	Experimental study on convective heat transfer and entropy generation of carbon black nanofluid turbulent flow in a helical coiled heat exchanger. 2021 , 145, 597-607		7
103	Thermo-hydraulic and entropy generation analysis of recharging microchannel using water-based graphene-silver hybrid nanofluid. 2021 , 143, 4131-4148		11
102	Convection Heat Transfer, Entropy Generation Analysis and Thermodynamic Optimization of Nanofluid Flow in Spiral Coil Tube. 2021 , 42, 1573-1589		2
101	Performance assessment of a thermoelectric module by using rotating circular cylinders and nanofluids in the channel flow for renewable energy applications. 2021 , 279, 123426		17
100	Supervised learning method for the physical field reconstruction in a nanofluid heat transfer problem. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 165, 120684	4.9	15
99	Intrinsic irreversibility of Al ₂ O ₃ /H ₂ O nanofluid Poiseuille flow with variable viscosity and convective cooling. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , 31, 2042-2063	4.5	9

98	Numerical study on combined thermal radiation and magnetic field effects on entropy generation in unsteady fluid flow past an inclined cylinder. 2021 , 8, 149-169		5
97	Upshot of Sonication Method Over Nanofluids Stability in SEHs: A Crisp Review Outlook. 2021 , 311-320		
96	Numerical Assessment of Nanofluids in Recharging Microchannel: Thermo-Hydrodynamic and Entropy Generation Analysis. 2021 , 13,		1
95	Insight into kerosene conveying CNTs and Fe ₃ O ₄ nanoparticles through a porous medium: significance of Coriolis force and entropy generation. <i>Physica Scripta</i> , 2021 , 96, 055705	2.6	21
94	A Short Review of Organic Nanofluids: Preparation, Surfactants, and Applications. 2021 , 8,		1
93	Analysis of entropy generation and thermal-hydraulic of various plate-pin fin-splitter heat recovery systems using Al ₂ O ₃ /H ₂ O nanofluid. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	1
92	Numerical Investigation of Natural Convection and Irreversibilities between Two Inclined Concentric Cylinders in Presence of Uniform Magnetic Field and Radiation. 1-21		47
91	Energy analysis of non-Newtonian nanofluid flow over parabola of revolution on the horizontal surface with catalytic chemical reaction. <i>Heat Transfer</i> , 2021 , 50, 6189-6209	3.1	7
90	Heat transfer and entropy generation analysis of internal flow of nanorefrigerant with slip condition at wall. 2021 , 22, 100829		4
89	Entropy generation of a nanofluid in a porous cavity with sinusoidal temperature at the walls and a heat source bellow. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , ahead-of-print,	4.5	
88	Two-phase analysis of heat transfer and entropy generation of water-based magnetite nanofluid flow in a circular microtube with twisted porous blocks under a uniform magnetic field. <i>Powder Technology</i> , 2021 , 384, 522-541	5.2	13
87	Thermal performance and entropy generation for nanofluid jet injection on a ribbed microchannel with oscillating heat flux: Investigation of the first and second laws of thermodynamics. 2021 ,		1
86	Effects of nondimensional distance between two square cylinders on the dissipation characteristics of the complex flow. 2150146		
85	Hydrothermal index and entropy generation of a heated cylinder placed between two oppositely rotating cylinders in a vented cavity. <i>International Journal of Mechanical Sciences</i> , 2021 , 201, 106465	5.5	3
84	Irreversibility features of a shell-and-tube heat exchanger fitted with novel trapezoidal oblique baffles: Application of a nanofluid with different particle shapes. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 126, 105352	5.8	4
83	Nonlinear dissipative slip flow of Jeffrey nanomaterial towards a curved surface with entropy generation and activation energy. <i>Mathematics and Computers in Simulation</i> , 2021 , 185, 47-61	3.3	93
82	Energy and entropy generation analyses of a nanofluid-based helically coiled pipe under a constant magnetic field using smooth and micro-fin pipes: Experimental study and prediction via ANFIS model. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 126, 105405	5.8	6
81	Experimental study on heat transfer, friction factor, entropy and exergy efficiency analyses of a corrugated plate heat exchanger using Ni/water nanofluids. <i>International Journal of Thermal Sciences</i> , 2021 , 165, 106935	4.1	20

80	Numerical study of entropy generation and forced convection heat transfer of a nanofluid in a channel with different fin cross-sections. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , ahead-of-print,	4.5	1
79	Heat transfer characteristics and entropy generation analysis in a plate heat exchanger using ethylene glycol and water mixture-based Al ₂ O ₃ nanofluid. <i>Heat Transfer</i> ,	3.1	0
78	Thermal effects of nonuniform heating in a nanofluid-filled annulus: Buoyant transport versus entropy generation. <i>Heat Transfer</i> ,	3.1	4
77	Phase change dynamics in a cylinder containing hybrid nanofluid and phase change material subjected to a rotating inner disk. <i>Journal of Energy Storage</i> , 2021 , 42, 103007	7.8	12
76	A critical review on the development and challenges of concentrated solar power technologies. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 47, 101434	4.7	11
75	Second law assessment of nanofluid flow in a channel fitted with conical ribs for utilization in solar thermal applications: Effect of nanoparticle shape. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 151, 119387	4.9	21
74	Entropy Generation in C ₆ H ₉ NAO ₇ Fluid Over an Accelerated Heated Plate. <i>Frontiers in Physics</i> , 2020 , 7,	3.9	0
73	OUP accepted manuscript. <i>International Journal of Low-Carbon Technologies</i> ,	2.8	1
72	Natural Convection over Two Superellipse Shapes with a Porous Cavity Populated by Nanofluid. <i>Energies</i> , 2021 , 14, 6952	3.1	1
71	Thermal entropy and exergy efficiency analyses of nanodiamond/water nanofluid flow in a plate heat exchanger. <i>Diamond and Related Materials</i> , 2021 , 120, 108648	3.5	4
70	Comprehensive analysis on copper-iron (II, III)/oxide-engine oil Casson nanofluid flowing and thermal features in parabolic trough solar collector. <i>Journal of Taibah University for Science</i> , 2021 , 15, 619-636	3	19
69	Radiation and heat generation aspects on MHD convection of nanofluids in inclined wavy porous double lid-driven enclosures having obstacles: local thermal non-equilibrium. <i>Waves in Random and Complex Media</i> , 1-18	1.9	6
68	Entropy generation investigation of nanofluid flow in the ribbed rectangular channel under magnetic field. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021 , 43, 1	2	0
67	Mixed convection and entropy production of a hybrid nanofluid in a porous cylindrical enclosure with rotating top wall. <i>Heat Transfer</i> ,	3.1	1
66	Thermodynamic optimization of nanofluid flow over a non-isothermal wedge with nonlinear radiation and activation energy. <i>Physica Scripta</i> , 2022 , 97, 015204	2.6	0
65	Effects of Soret and Dufour numbers on MHD thermosolutal convection of a nanofluid in a finned cavity including rotating circular cylinder and cross shapes. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 130, 105819	5.8	3
64	Simulation of Cardiac Flow under the Septal Defect Based on Lattice Boltzmann Method.. <i>Entropy</i> , 2022 , 24,	2.8	
63	Numerical analysis of pressure drop and heat transfer of a Non-Newtonian nanofluids in a Li-ion battery thermal management system (BTMS) using bionic geometries. <i>Journal of Energy Storage</i> , 2022 , 45, 103670	7.8	1

62	Entropy generation of MHD flow of sodium alginate (CHNAO) fluid in thermal engineering.. <i>Scientific Reports</i> , 2022 , 12, 701	4.9	1
61	Entropy generation in moving exponential porous fins with natural convection, radiation and internal heat generation. <i>Archive of Applied Mechanics</i> , 1	2.2	4
60	Dynamics of convective slippery constraints on hybrid radiative Sutterby nanofluid flow by Galerkin finite element simulation. <i>Nanotechnology Reviews</i> , 2022 , 11, 1219-1236	6.3	5
59	Local entropy generation model for numerical CFD analysis of fluid flows through porous media, under laminar and turbulent regimes. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022 , 16, 804-825	4.5	1
58	Chemical reaction and thermal characteristics of Maxwell nanofluid flow-through solar collector as a potential solar energy cooling application: A modified Buongiorno's model. <i>Energy and Environment</i> , 0958305X2210881	2.4	4
57	Analysis of thermo-magnetic convection and entropy generation of Al ₂ O ₃ -water nanofluid in a partially heated wavy electronic cabinet. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 133, 105955	5.8	2
56	Experimental Study of Entropy Generation of Nanofluid Flow in Minichannel. <i>Journal of Thermophysics and Heat Transfer</i> , 1-10	1.3	
55	Heat transfer characteristics and flow features of nanofluids in parallel flat minichannels. <i>Powder Technology</i> , 2022 , 402, 117321	5.2	2
54	Physical specifications of MHD mixed convective of Ostwald-de Waele nanofluids in a vented-cavity with inner elliptic cylinder. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 134, 106038	5.8	13
53	Experimental and molecular dynamic insights on the thermophysical properties for MWCNT-Phosphonium based eutectic thermal media. <i>Journal of Molecular Liquids</i> , 2022 , 354, 118892	6	1
52	Effect on Entropy Generation Analysis for Heat Transfer Nanofluid Near a Rotating Disk Using Quasilinearization Method. <i>Journal of Nanofluids</i> , 2022 , 11, 318-327	2.2	
51	Entropy optimized radiative heat transfer of hybrid nanofluid over vertical moving rotating disk with partial slip. <i>Chinese Journal of Physics</i> , 2022 , 77, 861-873	3.5	1
50	Analysis of Entropy Generation and Energy Transport of Cu-Water Nanofluid in a Tilted Vertical Porous Annulus. <i>International Journal of Applied and Computational Mathematics</i> , 2022 , 8, 1	1.3	5
49	Entropy optimized analysis for the radiative flow of a nanofluid: the Darcy-Forchheimer model. <i>Waves in Random and Complex Media</i> , 1-18	1.9	1
48	An overview on properties and applications of magnetorheological fluids: Dampers, batteries, valves and brakes. <i>Journal of Energy Storage</i> , 2022 , 50, 104648	7.8	2
47	Thermogravitational convection of water-based nanofluids with entropy generation in a wavy cabinet having a localized non-uniform heat source. <i>European Physical Journal Plus</i> , 2022 , 137, 1	3.1	
46	Analysis of geometrical shape impact on thermal management of practical fluids using square and circular cavities. <i>European Physical Journal: Special Topics</i> , 1	2.3	1
45	Investigation of fouling mitigation using stationary and rotating twisted tapes. <i>Applied Thermal Engineering</i> , 2022 , 118896	5.8	0

44	Analysis of the MHD partially ionized GO-Ag/water and GO-Ag/kerosene oil hybrid nanofluids flow over a stretching surface with Cattaneo-Christov double diffusion model: A comparative study. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 136, 106205	5.8	4
43	Improving the cooling performance of photovoltaic panels by using two passes circulation of titanium dioxide nanofluid. <i>Case Studies in Thermal Engineering</i> , 2022 , 36, 102191	5.6	1
42	Computational technique of thermal comparative examination of Cu and Au nanoparticles suspended in sodium alginate as Sutterby nanofluid via extending PTSC surface. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2022 , 20, 228080002211040	1.8	5
41	An Detailed Study on Nano Fluids and Its Applications in Energy Sector. 2022 , 8, 52-57		
40	Entropy-based analysis and economic scrutiny of magneto thermal natural convection enhancement in a nanofluid-filled porous trapezium-shaped cavity having localized baffles. <i>Waves in Random and Complex Media</i> , 1-21	1.9	0
39	Thermal fluid fields reconstruction for nanofluids convection based on physics-informed deep learning. 2022 , 12,		0
38	Natural convective nanofluid flow characteristics with Brownian motion effect in an annular space between confocal elliptic cylinders. 1-16		2
37	Significance of the Coriolis Force on the Dynamics of Carreau-Yasuda Rotating Nanofluid Subject to Darcy-Borchheimer and Gyrotactic Microorganisms. 2022 , 10, 2855		1
36	Exponential space and thermal-dependent heat source effects on electro-magneto-hydrodynamic Jeffrey fluid flow over a vertical stretching surface.		4
35	Entropy generation due to hydromagnetic buoyancy-driven hybrid-nanofluid flow in partially heated porous cavity containing heat conductive obstacle. 2023 , 62, 17-45		3
34	Computational analysis of heat transfer augmentation and thermodynamic irreversibility of hybrid nanofluids in a tube fitted with classical and elliptical-cut twisted tape inserts. 2022 , 147, 12093-12110		1
33	Thermal and solutal energy transport analysis in entropy generation of hybrid nanofluid flow over a vertically rotating cylinder. 10,		0
32	MHD bioconvective flow of Jeffrey nanofluid with motile microorganisms over a stretching sheet: solar radiation applications. 1-30		0
31	Entropy analysis of magnetized ferrofluid over a vertical flat surface with variable heating. 2022 ,		1
30	Numerical Simulation of Entropy Optimization in Radiative Hybrid Nanofluid Flow in a Variable Features Darcy-Borchheimer Curved Surface. 2022 , 14, 2057		1
29	Effect of discrete heating-cooling on magneto-thermal-hybrid nanofluidic convection in cylindrical system. 2022 , 107852		2
28	Impacts of heater-cooler position and Lorentz force on heat transfer and entropy generation of hybrid nanofluid convection in quarter-circular cavity.		3
27	Numerical investigation of thermal energy storage system loaded with nano-enhanced phase change material with Koch snowflake fractal cross-section. 2022 , 56, 106016		2

26	Thermal cooling efficacy of a solar water pump using Oldroyd-B (aluminum alloy-titanium alloy/engine oil) hybrid nanofluid by applying new version for the model of Buongiorno. 2022 , 12,	1
25	Convection analysis of the radiative nanofluid flow through porous media over a stretching surface with inclined magnetic field. 2023 , 140, 106559	3
24	A comprehensive review of nanofluids with fractional derivatives: Modeling and application. 2022 , 11, 3235-3249	0
23	Energy and exergy evaluation of a baffled-nanofluid-based photovoltaic thermal system (PVT). 2023 , 203, 123775	1
22	Partial differential equations modeling of thermal transportation in Casson nanofluid flow with arrhenius activation energy and irreversibility processes. 2022 , 12,	0
21	Thermal Analysis of Radiative Darcy-Borchheimer Nanofluid Flow Across an Inclined Stretching Surface. 2022 , 12, 4291	1
20	Dual Synthetic Jet Actuator and Its Applications Part IV: Analysis of Heat Dissipation and Entropy Generation of Liquid Cooling with Dual Synthetic Jet Actuator. 2022 , 11, 382	0
19	Thermal amelioration in heat transfer rate using Oldroyd-B model hybrid nanofluid by CNTs-based kerosene oil flow in solar collectors applications. 1-31	0
18	Hydromagnetic slip flow and heat transfer treatment of Maxwell fluid with hybrid nanostructure: low Prandtl numbers. 1-11	0
17	Entropy approach of hydromagnetic Williamson nanofluid flow with Joule heating. 1-13	0
16	Entropy generation study due to MHD double-diffusive convection in the rectangular cavity with built-in rectangular blockage. 1-21	0
15	Particle swarm optimization based numerical study for pressure, flow, and heat transfer over a rotating disk with temperature dependent nanofluid properties. 1-30	0
14	A novel multi fractional comparative analysis of second law analysis of MHD flow of Casson nanofluid in a porous medium with slipping and ramped wall heating.	0
13	Mathematical modeling of graphene-BDMS Maxwell nanofluid flow over a stretching surface: A study on the efficient energy management □	0
12	Predicting entropy generation of a hybrid nanofluid in microchannel heat sink with porous fins integrated with high concentration photovoltaic module using artificial neural networks. 2023 , 150, 259-271	0
11	Various nanoparticle shapes and quadratic velocity impacts on entropy generation and MHD flow over a stretching sheet with joule heating. 2023 , 71, 147-159	0
10	Qualitative modeling of solar panel cooling by nanofluid jets: Heat transfer and second law analysis. 2023 , 45, 102981	0
9	Experimental entropy generation, exergy efficiency and thermal performance factor of CoFe ₂ O ₄ /Water nanofluids in a tube predicted with ANFIS and MLP models. 2023 , 190, 108328	0

- 8 The effects of staggered triangular ribs induced vortex flow on hydrothermal behavior and entropy generation in microchannel heat sink. **2023**, 191, 108331 ○
- 7 Magneto-nanofluid flow in cylinder-embedded discretely heated-cooled annular thermal systems: Conjugate heat transfer and thermodynamic irreversibility. **2023**, 569, 170442 ○
- 6 Numerical solution for heat transfer in a staggered enclosure with wavy insulated baffles. **2023**, 8, 8332-8348 ○
- 5 Entropy generation in magnetohydrodynamic radiative non-Darcy slip flow of a Casson nanofluid with Hall effects and activation energy. **2023**, 575, 170712 ○
- 4 Impact of nanoparticle shape on entropy production of nanofluid over permeable MHD stretching sheet at quadratic velocity and viscous dissipation. **2023**, 45, 102992 ○
- 3 Convective Heat Transfer and Entropy Generation for Nano-Jet Impingement Cooling of a Moving Hot Surface under the Effects of Multiple Rotating Cylinders and Magnetic Field. **2023**, 11, 1891 ○
- 2 Numerical analysis and optimization of a novel photovoltaic thermal solar unit improved by Nano-PCM as an energy storage media and finned collector. **2023**, 179, 113230 ○
- 1 Artificial intelligence approach for energy and entropy analyses of NiFe₂O₄/H₂O nanofluid flow in a tube with vortex generator. **2023**, 152, 277-292 ○