

CITATION REPORT

List of articles citing

Pool boiling characteristics of nano-fluids

DOI: 10.1016/s0017-9310(02)00348-4
International Journal of Heat and Mass Transfer, 2003,
46, 851-862.

Source: <https://exaly.com/paper-pdf/35303977/citation-report.pdf>

Version: 2024-04-25

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
856	Pool boiling of nano-fluids on horizontal narrow tubes. 2003 , 29, 1237-1247		214
855	Aspects of prewetting at nonplanar surfaces. 2004 , 120, 6691-700		8
854	Effect on Heat Transfer of Particle Migration in Suspensions of Nanoparticles Flowing Through Minichannels. 2004 , 939		6
853	Analysis of convective instability and heat transfer characteristics of nanofluids. <i>Physics of Fluids</i> , 2004 , 16, 2395-2401	4.4	213
852	Heat transfer enhancement of copper nanofluid with acoustic cavitation. <i>International Journal of Heat and Mass Transfer</i> , 2004 , 47, 3109-3117	4.9	146
851	Experimental investigation into convective heat transfer of nanofluids at the entrance region under laminar flow conditions. <i>International Journal of Heat and Mass Transfer</i> , 2004 , 47, 5181-5188	4.9	1197
850	Pool boiling heat transfer experiments in silica-water nano-fluids. <i>International Journal of Heat and Mass Transfer</i> , 2004 , 47, 407-411	4.9	428
849	THERMAL TRANSPORT IN NANOFUIDS. 2004 , 34, 219-246		632
848	Effective Thermal Conductivity of Aqueous Suspensions of Carbon Nanotubes (Carbon Nanotube Nanofluids). 2004 , 18, 481-485		368
847	Particle migration in a flow of nanoparticle suspensions. 2005 , 149, 84-92		200
846	Boiling heat transfer performance and phenomena of Al ₂ O ₃ -water nano-fluids from a plain surface in a pool. <i>International Journal of Heat and Mass Transfer</i> , 2005 , 48, 2407-2419	4.9	560
845	Local hydrodynamics of gas-liquid-nanoparticles three-phase fluidization. 2005 , 60, 6887-6898		44
844	Hydrodynamic and Mass Transfer of Gas-Liquid-Solid Three-Phase Internal Loop Airlift Reactors with Nanometer Solid Particles. 2005 , 28, 53-60		36
843	Formulation of nanofluids for natural convective heat transfer applications. 2005 , 26, 855-864		334
842	Effect of particle migration on heat transfer in suspensions of nanoparticles flowing through minichannels. 2005 , 1, 183-189		121
841	Experimental investigation into the pool boiling heat transfer of aqueous based Alumina nanofluids. 2005 , 7, 265-274		379
840	Nanofluids for thermal transport. 2005 , 8, 36-44		585

839	On Analog Simulation of Liquid-Metal Flows in Space Rankine-Cycle Power-Systems. 2005 , 755	
838	A Model of Nanofluids Thermal Conductivity. 2005 , 501	3
837	Pool Boiling Heat Transfer of Alumina-Water, Zinc Oxide-Water and Alumina-Water+Ethylene Glycol Nanofluids. 2005 , 625	21
836	Natural convective heat transfer of suspensions of titanium dioxide nanoparticles (nanofluids). 2006 , 5, 220-227	172
835	Transport Phenomena of Nanoparticle Suspensions (Nanofluids) Heated Under Various Heating Conditions. 2006 ,	
834	Thermal conductivity of nanoparticle suspensions. 2006 , 99, 084308	217
833	Effects of nanoparticle deposition on surface wettability influencing boiling heat transfer in nanofluids. 2006 , 89, 153107	245
832	Heat and Mass Transfer in Fluids with Nanoparticle Suspensions. 2006 , 39, 257-376	54
831	Effect of nanofluid on the heat transport capability in an oscillating heat pipe. 2006 , 88, 143116	217
830	Nanofluids as Working Media for Loop Heat Pipes. 2006 ,	2
829	Parametric Experimental Study of Viscosity of Nanofluids. 2006 , 21	1
828	Characteristics of Nucleate Boiling With Gold Nanoparticles in Water. 2006 , 385	11
827	Experimental investigation of oxide nanofluids laminar flow convective heat transfer. 2006 , 33, 529-535	636
826	Heat transfer: A review of 2003 literature. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 451-534	4.9 61
825	Heat Transfer in Nanofluids: A Review. 2006 , 27, 3-19	921
824	Measurements of nanofluid viscosity and its implications for thermal applications. 2006 , 89, 133108	558
823	Heat transfer of aqueous suspensions of carbon nanotubes (CNT nanofluids). <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 240-250	4.9 1071
822	Mechanisms of Heat Transfer in Rotary Shaft of Rotating Machine with Nano-Sized Particles Lubricant. 2006 , 505-507, 31-36	1

821	The interface effect of carbon nanotube suspension on the thermal performance of a two-phase closed thermosyphon. 2006 , 100, 104909	95
820	Effect of Nano-Particles on Pool Boiling Heat Transfer of Refrigerant 141b. 2007 , 789	6
819	Effect on Natural Convection Heat Transfer of Nanofluid in an Enclosure Due to Uncertainties of Viscosity and Thermal Conductivity. 2007 , 833	5
818	Rheological behaviour of nanofluids. 2007 , 9, 367-367	411
817	Mechanism of enhancement/deterioration of boiling heat transfer using stable nanoparticle suspensions over vertical tubes. 2007 , 102, 074317	103
816	Characteristic boiling curve of carbon nanotube nanofluid as determined by the transient calorimeter technique. 2007 , 90, 184107	32
815	Particle concentration and tube size dependence of viscosities of Al ₂ O ₃ -water nanofluids flowing through micro- and minitubes. 2007 , 91, 243112	86
814	Effect of nanoparticles in nanofluid on thermal performance in a miniature thermosyphon. 2007 , 102, 013526	59
813	Bubbles in Nanofluids 2007 , 46, 4341-4346	30
812	Rheological properties of nanofluids flowing through microchannels. 2007 , 91, 233103	188
811	Thermal conductivity improvement in carbon nanoparticle doped PAO oil: An experimental study. 2007 , 101, 064302	108
810	Heat Transfer Intensification Using Nanofluids. 2007 , 25, 23-38	171
809	. 2007 ,	470
808	Introduction. 1-37	8
807	Applications and Future Directions. 337-352	2
806	Rheological behaviour of ethylene glycol based titania nanofluids. 2007 , 444, 333-337	359
805	Boiling heat transfer enhancement with carbon nanotubes for refrigerants used in building air-conditioning. 2007 , 39, 1061-1064	128
804	Experimental investigation of convective heat transfer of Al ₂ O ₃ /water nanofluid in circular tube. 2007 , 28, 203-210	554

803	Heat transfer and flow behaviour of aqueous suspensions of TiO ₂ nanoparticles (nanofluids) flowing upward through a vertical pipe. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 2272-2281	4.9	707
802	Surface wettability change during pool boiling of nanofluids and its effect on critical heat flux. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 4105-4116	4.9	642
801	Enhancement of nucleate boiling heat transfer using carbon nanotubes. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 4499-4502	4.9	117
800	Boiling heat transfer characteristics of nanofluids in a flat heat pipe evaporator with micro-grooved heating surface. 2007 , 33, 1284-1295		165
799	Critical review of heat transfer characteristics of nanofluids. 2007 , 11, 512-523		561
798	Enhancement of pool boiling heat transfer coefficients using carbon nanotubes. 2007 , 21, 303-310		1
797	Heat and mass transfer enhancement of the bubble absorption for a binary nanofluid. 2007 , 21, 1813-1818		36
796	Boiling heat transfer characteristics of nanofluids jet impingement on a plate surface. 2007 , 43, 699-706		58
795	Analytical prediction of forced convective heat transfer of fluids embedded with nanostructured materials (nanofluids). 2007 , 69, 411-421		7
794	Buoyancy-driven heat transfer of water-based Al ₂ O ₃ nanofluids in a rectangular cavity. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 4003-4010	4.9	271
793	Experimental studies on CHF characteristics of nano-fluids at pool boiling. 2007 , 33, 691-706		161
792	Heat transfer characteristics of nanofluids: a review. 2007 , 46, 1-19		1537
791	Contact line motion and dynamic wetting of nanofluid solutions. 2008 , 138, 101-20		157
790	Nanofluid boiling: The effect of surface wettability. 2008 , 29, 1577-1585		191
789	Numerical simulation of natural convection of nanofluid in a square enclosure: Effects due to uncertainties of viscosity and thermal conductivity. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 4506-4516	4.9	410
788	Mechanisms of thermal nanofluids on enhanced critical heat flux (CHF). <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 4958-4965	4.9	79
787	Thermal performance of closed two-phase thermosyphon using nanofluids. 2008 , 47, 659-667		172
786	Phase change heat transfer of liquid nitrogen upon injection into aqueous based TiO ₂ nanofluids. 2008 , 10, 987-996		4

785	Survey on nucleate pool boiling of nanofluids: the effect of particle size relative to roughness. 2008 , 10, 1099-1108		47
784	Production and characterization of carbon nano colloid via one-step electrochemical method. 2008 , 10, 1121-1128		22
783	On the role of structural disjoining pressure to boiling heat transfer of thermal nanofluids. 2008 , 10, 1129-1140		21
782	Pool boiling heat transfer characteristics of ZrO ₂ /water nanofluids from a flat surface in a pool. 2008 , 44, 999-1004		104
781	Boiling characteristics in small vertical tubes with closed bottom for nanofluids and nanoparticle-suspensions. 2008 , 45, 1-9		17
780	Heat transfer and flow behaviour of aqueous suspensions of titanate nanotubes (nanofluids). 2008 , 183, 63-72		205
779	Application of nanoparticles in domestic refrigerators. <i>Applied Thermal Engineering</i> , 2008 , 28, 1834-1843	5.8	199
778	Thermophysical and electrokinetic properties of nanofluids [A critical review. <i>Applied Thermal Engineering</i> , 2008 , 28, 2109-2125	5.8	460
777	An experimental investigation of single-phase natural circulation behavior in a rectangular loop with Al ₂ O ₃ nanofluids. 2008 , 33, 184-189		42
776	Sorption and agglutination phenomenon of nanofluids on a plain heating surface during pool boiling. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 2593-2602	4.9	124
775	Effect of surface orientation on pool boiling heat transfer of nanoparticle suspensions. 2008 , 34, 145-160		44
774	Free Convection of Nanofluid in Vertical Annuli. 2008 ,		
773	Experimental Study on the Thermal Physical Properties of a CNTS-Ammonia Binary Nanofluid. 2008 ,		2
772	Review and Comparison of Nanofluid Thermal Conductivity and Heat Transfer Enhancements. 2008 , 29, 432-460		828
771	The effects of temperature, volume fraction and vibration time on the thermo-physical properties of a carbon nanotube suspension (carbon nanofluid). 2008 , 19, 315701		138
770	Continuous Synthesis of Surface-Modified Metal Oxide Nanoparticles Using Supercritical Methanol for Highly Stabilized Nanofluids. 2008 , 20, 6301-6303		59
769	Potential of Nanofluids to further intensify microreactors. 2008 , 10, 670		44
768	Thermodiffusion in nanofluids under different gravity conditions. <i>Physics of Fluids</i> , 2008 , 20, 017101	4.4	26

767	. 2008,	1
766	Experimental investigation of nanofluid shear and longitudinal viscosities. 2008, 92, 244107	47
765	Nanofluids with plasma treated diamond nanoparticles. 2008, 92, 103111	33
764	Nanofluids for Enhanced Economics and Safety of Nuclear Reactors: An Evaluation of the Potential Features, Issues, and Research Gaps. 2008, 162, 80-91	154
763	Feasibility study of nanofluid cooling techniques for microelectronic systems. 2009,	4
762	NanoFluids A New Promising Fluid for Cooling. 2009, 68, 1-17	37
761	Nanofluids: From Vision to Reality Through Research. 2009, 131,	407
760	Characterization and Pool Boiling Heat Transfer Studies of Nanofluids. 2009, 131,	40
759	Pool Boiling Characteristics of Carbon Nanotube Based Nanofluids Over a Horizontal Tube. 2009, 1,	18
758	A new experimental relation for effective thermal conductivity of nanofluids. 2009, 26, 949-954	1
757	Heat Transfer and Rheological Behaviour of Nanofluids A Review. 2009, 135-177	36
756	Nanofluids: A novel promising flow stabilizer in natural circulation systems. 2009, 55, 268-274	14
755	Wide range parametric study for the pool boiling of nano-fluids with a circular plate heater. 2009, 12, 37-46	25
754	Surface wettability control by nanocoating: The effects on pool boiling heat transfer and nucleation mechanism. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 5459-5471	4-9 317
753	Two-phase flow patterns of nitrogen and nanofluids in a vertically capillary tube. 2009, 48, 2074-2079	15
752	Rheological behaviour of ethylene glycol-titanate nanotube nanofluids. 2009, 11, 1513-1520	120
751	Pool boiling on the superhydrophilic surface with TiO ₂ nanotube arrays. 2009, 52, 1596-1600	34
750	Forced convective flow drag and heat transfer characteristics of carbon nanotube suspensions in a horizontal small tube. 2009, 45, 1129-1136	30

749	Pool boiling heat transfer performance of Newtonian nanofluids. 2009 , 45, 1555-1560		37
748	Numerical investigation of natural convection of Al ₂ O ₃ nanofluid in vertical annuli. 2009 , 46, 15-23		55
747	Dispersion and surface characteristics of nanosilica suspensions. 2009 , 1161, 472-83		8
746	Nucleate boiling heat transfer in aqueous solutions with carbon nanotubes up to critical heat fluxes. 2009 , 35, 525-532		94
745	The migration characteristics of nanoparticles in the pool boiling process of nanorefrigerant and nanorefrigerant-oil mixture. 2009 , 32, 114-123		80
744	Heat transfer characteristics of refrigerant-based nanofluid flow boiling inside a horizontal smooth tube. 2009 , 32, 1259-1270		167
743	Measurement and correlation of frictional pressure drop of refrigerant-based nanofluid flow boiling inside a horizontal smooth tube. 2009 , 32, 1756-1764		78
742	Thermal-hydraulic characteristics of a single-phase natural circulation loop with water and Al ₂ O ₃ nanofluids. 2009 , 239, 526-540		21
741	Nucleate pool boiling heat transfer of TiO ₂ -based nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 1582-1588	4-9	198
740	Review of convective heat transfer enhancement with nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 3187-3196	4-9	1353
739	An experimental study on the effect of ultrasonication on viscosity and heat transfer performance of multi-wall carbon nanotube-based aqueous nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 5090-5101	4-9	386
738	Pool boiling of nanofluids: Comprehensive review of existing data and limited new data. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 5339-5347	4-9	131
737	Investigation of thermal conductivity and viscosity of ethylene glycol based ZnO nanofluid. 2009 , 491, 92-96		346
736	Predicting thermal conductivity of liquid suspensions of nanoparticles (nanofluids) based on rheology. 2009 , 7, 151-157		210
735	Review of nanofluids for heat transfer applications. 2009 , 7, 141-150		576
734	A fractal model for heat transfer of nanofluids by convection in a pool. 2009 , 373, 4178-4181		44
733	Rheological behaviour of nanofluids containing tube / rod-like nanoparticles. 2009 , 194, 132-141		107
732	A review on development of nanofluid preparation and characterization. 2009 , 196, 89-101		566

731	Experimental investigation of the effective electrical conductivity of aluminum oxide nanofluids. 2009 , 196, 326-330	158
730	Investigating the efficacy of nanofluids as coolants in plate heat exchangers (PHE). 2009 , 64, 3290-3300	226
729	Boiling heat transfer on a high temperature silver sphere in nanofluid. 2009 , 48, 2215-2220	62
728	Numerical investigation into the convective heat transfer of TiO ₂ nanofluids flowing through a straight tube under the laminar flow conditions. <i>Applied Thermal Engineering</i> , 2009 , 29, 1965-1972	5.8 199
727	A Review of Heat Transfer in Nanofluids. 2009 , 41, 81-197	61
726	Conduction heat transfer characteristics and dispersion behaviour of carbon nanofluids as a function of different parameters. 2009 , 4, 347-363	41
725	Structure and rheology of SiO ₂ nanoparticle suspensions under very high shear rates. 2009 , 80, 051403	54
724	Heat Transfer Augmentation of Aqueous Suspensions of Nanodiamonds in Turbulent Pipe Flow. 2009 , 131,	37
723	Convective Heat Transfer of a Cu/Water Nanofluid Flowing Through a Circular Tube. 2009 , 22, 217-227	85
722	Effect of TiO ₂ nanoparticles on contact line stick-slip behavior of volatile drops. 2009 , 113, 8860-6	128
721	Subcooled Flow Boiling Heat Transfer of Nanofluids in a Microchannel. 2009 ,	1
720	Flow Characteristics of Aluminium Oxide Nanofluids. 2009 ,	
719	Boiling Enhancements by Anodizing and Pre-Boiling in Nanofluid. 2009 ,	
718	An Experimental Study of Surface Tension-Dependent Pool Boiling Characteristics of Carbon Nanotubes-Nanofluids. 2009 ,	18
717	Heat Transfer of Falling Film Flowing Around a Horizontal Tube With Nanofluids. 2009 ,	1
716	Transient Characteristics of Pool Boiling Heat Transfer in Nanofluids. 2009 ,	2
715	Advances in Transport Phenomena. 2009 ,	7
714	Rheological and flow characteristics of nanofluids: Influence of electroviscous effects and particle agglomeration. 2009 , 106, 034909	188

713	Effect of surface tension on nanotube nanofluids. 2009 , 94, 073107		67
712	Effective viscosity of nanoscale colloidal suspensions. 2009 , 106, 124309		27
711	Flow Loop Experiments Using Polyalphaolefin Nanofluids. 2009 , 23, 752-761		100
710	EXPERIMENTAL STUDY ON THERMAL CONDUCTIVITY AND VISCOSITY OF WATER BASED NANOFLUIDS. 2009 ,		2
709	Heat transfer with nanofluids for electronic cooling. 2009 , 34, 158		12
708	A Review of Thermal Conductivity Data, Mechanisms and Models for Nanofluids. 2010 , 1, 269-322		160
707	Thermal-Fluid Characterizations of ZnO and SiC Nanofluids for Advanced Nuclear Power Plants. 2010 , 170, 16-27		14
706	Application of Water Based-TiO ₂ Nano-fluid for Cooling of Hot Steel Plate. 2010 , 50, 124-127		42
705	The mechanism of heat transfer in nanofluids: state of the art (review). Part 2. Convective heat transfer. 2010 , 17, 157-171		52
704	Viscosity of alumina nanoparticles dispersed in car engine coolant. 2010 , 34, 677-683		201
703	Nucleate pool boiling heat transfer characteristics of TiO ₂ water nanofluids at very low concentrations. 2010 , 34, 992-999		93
702	Pool boiling heat transfer of non-Newtonian nanofluids. 2010 , 37, 29-33		64
701	Flow-boiling heat transfer of R-134a-based nanofluids in a horizontal tube. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 944-951	4.9	149
700	Effects of pressure, orientation, and heater size on pool boiling of water with nanocoated heaters. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 5199-5208	4.9	96
699	Nucleate pool boiling heat transfer characteristics of refrigerant/oil mixture with diamond nanoparticles. 2010 , 33, 347-358		69
698	Thermal performance of inclined grooved heat pipes using nanofluids. 2010 , 49, 1680-1687		86
697	Investigation on the thermal transport properties of ethylene glycol-based nanofluids containing copper nanoparticles. 2010 , 197, 218-221		118
696	Experimental study on nanofluidic heat pipe hot chuck plate in semiconductor wafer baking process. 2010 , 24, 1501-1509		8

695	A fractal study for nucleate pool boiling heat transfer of nanofluids. 2010 , 53, 30-37		30
694	Molecular Dynamics Modeling of Latent Heat Enhancement in Nanofluids. 2010 , 31, 1131-1144		16
693	A new dimensionless group model for determining the viscosity of nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010 , 100, 873-877	4.1	70
692	Experimental investigation into the convective heat transfer and system-level effects of Al ₂ O ₃ -propanol nanofluid. 2010 , 12, 1003-1014		81
691	Heat transfer enhancement by application of nano-powder. 2010 , 12, 2611-2619		30
690	Critical heat flux enhancement in pool boiling using alumina nanofluids. 2010 , 39, n/a-n/a		1
689	Enhancement of heat transfer using nanofluids—An overview. 2010 , 14, 629-641		573
688	Techniques for measuring the thermal conductivity of nanofluids: A review. 2010 , 14, 1913-1924		234
687	Convection heat transfer of functionalized MWNT in aqueous fluids in laminar and turbulent flow at the entrance region. 2010 , 37, 717-723		100
686	Pool boiling characteristics of low concentration nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 972-981	4.9	231
685	Influence of carbon nanotube suspension on the thermal performance of a miniature thermosyphon. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 1914-1920	4.9	72
684	Preparation and pool boiling characteristics of copper nanofluids over a flat plate heater. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 1673-1681	4.9	86
683	Nanocoating characterization in pool boiling heat transfer of pure water. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 4579-4587	4.9	82
682	Subcooled flow boiling heat transfer of dilute alumina, zinc oxide, and diamond nanofluids at atmospheric pressure. 2010 , 240, 1186-1194		104
681	Local convective boiling heat transfer and pressure drop of nanofluid in narrow rectangular channels. <i>Applied Thermal Engineering</i> , 2010 , 30, 2619-2631	5.8	62
680	Enhancement of thermal conductivity of kerosene-based Fe ₃ O ₄ nanofluids prepared via phase-transfer method. 2010 , 355, 109-113		175
679	Operation characteristics of cylindrical miniature grooved heat pipe using aqueous CuO nanofluids. 2010 , 34, 1415-1421		51
678	Boiling characteristics of carbon nanotube suspensions under sub-atmospheric pressures. 2010 , 49, 1156-1164		71

677	Heat transfer features of buoyancy-driven nanofluids inside rectangular enclosures differentially heated at the sidewalls. 2010 , 49, 1536-1546	180
676	Influence of carbon nanotubes on nucleate pool boiling heat transfer characteristics of refrigerantRil mixture. 2010 , 49, 2428-2438	44
675	Effects of nanoparticle layering on nanofluid and base fluid pool boiling heat transfer from a horizontal surface under atmospheric pressure. 2010 , 107, 114302	41
674	A FRACTAL MODEL FOR NUCLEATE POOL BOILING OF NANOFUIDS AT HIGH HEAT FLUX INCLUDING CHF. 2010 , 18, 409-415	26
673	Relationship between the thermal conductivity and shear viscosity of nanofluids. 2010 , T139, 014078	23
672	Recent Advances in Heat Transfer Enhancements: A Review Report. 2010 , 2010, 1-28	62
671	Surface Coating with Nanofluids: The Effects on Pool Boiling Heat Transfer. 2010 , 14, 229-244	27
670	Critical Heat Flux (CHF) of Subcooled Flow Boiling of Alumina Nanofluids in a Horizontal Microchannel. 2010 , 132,	53
669	An Investigation on Thermal Conductivity and Viscosity of Water Based Nanofluids. 2010 , 139-162	17
668	Synthesis of Aqueous and Nonaqueous Iron Oxide Nanofluids and Study of Temperature Dependence on Thermal Conductivity and Viscosity. 2010 , 114, 18825-18833	158
667	Analytical Study on Forced Convection of Nanofluids With Viscous Dissipation in Microchannels. 2010 , 31, 1184-1192	37
666	Effects of nanofluids containing graphene/graphene-oxide nanosheets on critical heat flux. 2010 , 97, 023103	138
665	A Study of the Thermal-Hydraulic Performance and System-Level Effects of Aluminum Oxide-Propanol Nanofluid. 2010 ,	
664	A REVIEW OF ENHANCEMENT OF BOILING HEAT TRANSFER THROUGH NANOFUIDS AND NANOPARTICLE COATINGS. 2010 , 18, 247-263	7
663	Pool boiling heat transfer characteristics of nanocoating in various working fluids. 2011 ,	5
662	Investigation on Intertube Falling-Film Heat Transfer and Mode Transitions of Aqueous-Alumina Nanofluids. 2011 , 133,	11
661	Pressure drop of TiO ₂ nanofluid in circular pipes. 2011 , 9, 486-491	44
660	Nanofluids and Their Properties. 2011 , 64,	47

659	Prediction of Thermal Conductivity and Convective Heat Transfer Coefficient of Nanofluids by Local Composition Theory. 2011 , 133,		8
658	Intertube Falling-Film Heat Transfer Behavior of Multiwall Carbon Nanotube Suspensions (MWCNT Nanofluids). 2011 ,		3
657	Experimental Investigation on Surface Particle Interactions During Pool Boiling of Nanofluids. 2011 ,		
656	The effect of Fe ₃ O ₄ nanoparticles on the thermal conductivities of various base fluids. 2011 , 22, 285713		24
655	Utilization of Advanced Working Fluids With Biporous Evaporators. 2011 , 3,		5
654	Potential of carbon nanohorn-based suspensions for solar thermal collectors. 2011 , 95, 2994-3000		159
653	Enhancement of critical heat flux in nucleate boiling of nanofluids: a state-of-art review. 2011 , 6, 415		77
652	Al ₂ O ₃ -based nanofluids: a review. 2011 , 6, 456		150
651	Influences of refrigerant-based nanofluid composition and heating condition on the migration of nanoparticles during pool boiling. Part II: Model development and validation. 2011 , 34, 1833-1845		27
650	Effect of surface particle interactions during pool boiling of nanofluids. 2011 , 50, 2318-2327		30
649	Pool boiling heat transfer of functionalized nanofluid under sub-atmospheric pressures. 2011 , 50, 2402-2412		66
648	Natural convection heat transfer of nanofluids in annular spaces between horizontal concentric cylinders. <i>Applied Thermal Engineering</i> , 2011 , 31, 4055-4063	5.8	42
647	Experimental investigation of pool boiling characteristics of low-concentrated CuO/ethylene glycol/water nanofluids. 2011 , 38, 1470-1473		55
646	The analysis of silica suspensions atomization. 2011 , 32, 1208-1215		6
645	Boiling enhancement by TiO ₂ nanoparticle deposition. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 4895-4903	4.9	54
644	Review of thermo-physical properties, wetting and heat transfer characteristics of nanofluids and their applicability in industrial quench heat treatment. 2011 , 6, 334		88
643	Nanoscale Surface Modification Techniques for Pool Boiling Enhancement: A Critical Review and Future Directions. 2011 , 32, 827-842		112
642	Rheological properties of magnetic and electro-active nanoparticles in non-polar liquids. 2011 , 46, 5385-5393		13

641	Flow boiling heat transfer of alumina nanofluids in single microchannels and the roles of nanoparticles. 2011 , 13, 1063-1073		47
640	Novel nanofluids based on mesoporous silica for enhanced heat transfer. 2011 , 13, 6201-6206		29
639	Self-rewetting carbon nanofluid as working fluid for space and terrestrial heat pipes. 2011 , 13, 6207-6216		12
638	Nonlinear Two-Dimensional Convection in a Nanofluid Saturated Porous Medium. 2011 , 90, 605-625		21
637	A critical synthesis of thermophysical characteristics of nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 4410-4428	4-9	703
636	Pool boiling heat transfer characteristics of vertical cylinder quenched by SiO ₂ /water nanofluids. 2011 , 50, 1013-1021		47
635	Effect of aggregation on the viscosity of copper oxide/gear oil nanofluids. 2011 , 50, 1741-1747		206
634	Experimental study on CuO nanoparticles in distilled water and its effect on heat transfer on a vertical surface. 2011 , 25, 2927-2934		2
633	Nucleate boiling heat transfer in nanofluids with carbon nanotubes up to critical heat fluxes. 2011 , 25, 2647-2655		9
632	Discussion on the thermal conductivity enhancement of nanofluids. 2011 , 6, 124		125
631	Numerical investigation of Al ₂ O ₃ /water nanofluid laminar convective heat transfer through triangular ducts. 2011 , 6, 179		47
630	Pool boiling of water-Al ₂ O ₃ and water-Cu nanofluids on horizontal smooth tubes. 2011 , 6, 220		24
629	Infrared thermometry study of nanofluid pool boiling phenomena. 2011 , 6, 232		66
628	Viscosity affected by nanoparticle aggregation in Al ₂ O ₃ -water nanofluids. 2011 , 6, 248		102
627	A review on boiling heat transfer enhancement with nanofluids. 2011 , 6, 280		136
626	Absorption and scattering properties of carbon nanohorn-based nanofluids for direct sunlight absorbers. 2011 , 6, 282		96
625	Behavioral study of alumina nanoparticles in pool boiling heat transfer on a vertical surface. 2011 , 40, 495-512		
624	Boiling heat transfer of nanofluids: The effect of heating surface modification. 2011 , 50, 480-485		58

623	Numerical simulation of free convection of a nanofluid in L-shaped cavities. 2011 , 50, 1731-1740		81
622	Empirical correlating equations for predicting the effective thermal conductivity and dynamic viscosity of nanofluids. 2011 , 52, 789-793		741
621	Rayleigh-BBard convection heat transfer in nanoparticle suspensions. 2011 , 32, 65-77		104
620	Pool boiling characteristics of multiwalled carbon nanotube (CNT) based nanofluids over a flat plate heater. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 1289-1296	4-9	46
619	Effect of nanoparticle size on nucleate pool boiling heat transfer of refrigerant/oil mixture with nanoparticles. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 1839-1850	4-9	61
618	Surface tension of evaporating nanofluid droplets. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 2459-2466	4-9	94
617	The quenching behavior of aqueous nanofluids around rods with high temperature. 2011 , 241, 2519-2527		31
616	The effect of carbon nanotubes on the physical properties of a binary nanofluid. 2011 , 42, 252-257		28
615	A review on the performance of nanoparticles suspended with refrigerants and lubricating oils in refrigeration systems. 2011 , 15, 310-323		183
614	Heat transfer and fluid flow characteristics in microchannels heat exchanger using nanofluids: A review. 2011 , 15, 1502-1512		200
613	A review of boiling and convective heat transfer with nanofluids. 2011 , 15, 2342-2354		192
612	Convective heat transfer and fluid flow study over a step using nanofluids: A review. 2011 , 15, 2921-2939		133
611	Enhanced Thermal Conductivity of Liquid Paraffin Based Nanofluids Containing Copper Nanoparticles. 2011 , 32, 948-951		31
610	Influence of Different Dispersants on the Dispersion Property of Nano-Aluminium Powders. 2011 , 71-78, 122-125		3
609	The effect of pressure on heat transfer during pool boiling of water-Al ₂ O ₃ and water-Cu nanofluids on stainless steel smooth tube. 2011 , 32,		5
608	Utilization of Advanced Working Fluids in Heat Pipes. 2011 ,		
607	Pool Boiling Characteristics of Metallic Nanofluids. 2011 , 133,		13
606	Thermal characteristics of grooved heat pipe with hybrid nanofluids. 2011 , 15, 195-206		85

605	Boiling and Convective Heat Transfer Characteristics of Nanofluids. 2011 , 110-116, 393-399		
604	Thermoelectric Power Generation System with Loop Thermosyphon and TiO ₂ -Nanofluids. 2012 , 535-537, 2100-2103		5
603	Current research and future applications of nano- and ionano-fluids. <i>Journal of Physics: Conference Series</i> , 2012 , 395, 012117	0.3	8
602	EXPERIMENTAL POOL BOILING HEAT TRANSFER STUDY OF THE NANOPOROUS COATING IN VARIOUS FLUIDS. 2012 , 20, 1150001		9
601	Optimization of Free Convection Heat Transfer From Vertical Plates Using Nanofluids. 2012 , 134,		9
600	Pumping Energy Saving Using Nanoparticle Suspensions as Heat Transfer Fluids. 2012 , 134,		8
599	Experimental investigations on thermal conductivity of water and Al ₂ O ₃ nanofluids at low concentrations. 2012 , 5, 300		3
598	Viscosity calculation of a nanoparticle suspension confined in nanochannels. 2012 , 86, 036313		4
597	Nanofluid concept for enhancement of hydrogen utilization and gasoline production in fixed bed reactor Fischer-Tropsch synthesis of GTL (gas to liquid) technology. 2012 , 9, 172-183		12
596	Boiling induced nanoparticle coating and its effect on pool boiling heat transfer on a vertical cylindrical surface using CuO nanofluids. 2012 , 48, 1549-1557		8
595	Heat transfer of spray cooling using alumina/water nanofluids with full cone nozzles. 2012 , 48, 1971-1983		15
594	Thermal properties of nanofluids. 2012 , 183-184, 30-45		182
593	Experimental investigation of pool boiling of Fe ₃ O ₄ /ethylene glycol/water nanofluid in electric field. 2012 , 62, 149-153		73
592	Spray cooling by solid jet nozzles using alumina/water nanofluids. 2012 , 62, 127-137		23
591	Natural convective heat transfer of Fe ₃ O ₄ /ethylene glycol nanofluid in electric field. 2012 , 62, 114-119		38
590	Thermophysical and pool boiling characteristics of ZnO-ethylene glycol nanofluids. 2012 , 62, 61-70		73
589	Effect of Inclination Angle in Heat Pipe Performance Using Copper Nanofluid. 2012 , 38, 3715-3721		34
588	Critical heat flux for CuO nanofluid fabricated by pulsed laser ablation differentiating deposition characteristics. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 6908-6915	4.9	29

587	Numerical investigation of thermocapillary and buoyancy driven convection of nanofluids in a floating zone. 2012 , 65, 147-156	28
586	A simple microfluidic probe of nanoparticle suspension stability. 2012 , 12, 3467-73	1
585	Effects of aggregation on the thermal conductivity of alumina/water nanofluids. 2012 , 542, 28-32	68
584	Nanofluid stabilizes and enhances convective boiling heat transfer in a single microchannel. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 5673-5686	4-9 58
583	Numerical simulation of nucleate pool boiling on the horizontal surface for nano-fluid using wall heat flux partitioning method. 2012 , 66, 29-38	19
582	Investigations on Boiling-Induced Nanoparticle Coating, Transient Characteristics, and Effect of Pressure in Pool Boiling Heat Transfer on a Cylindrical Surface. 2012 , 25, 323-340	12
581	Preparation and Pool Boiling Characteristics of Silver Nanofluids Over a Flat Plate Heater. 2012 , 33, 69-78	23
580	Heat Transfer Properties of Nanodiamond Engine Oil Nanofluid in Laminar Flow. 2012 , 33, 525-532	71
579	A Semi-Empirical Model for Predicting the Effective Dynamic Viscosity of Nanoparticle Suspensions. 2012 , 33, 575-583	24
578	Effects of Acidity and Method of Preparation on Nucleate Pool Boiling of Nanofluids. 2012 , 33, 1148-1155	8
577	Convective heat transfer of alumina nanofluids in laminar flows through a pipe at the thermal entrance regime. 2012 , 29, 1321-1328	13
576	Boiling Heat Transfer and Critical Heat Flux Enhancement of Upward- and Downward-Facing Heater in Nanofluids. 2012 ,	
575	Pool Boiling and Flow Boiling CHF Enhancement at Atmospheric Pressure Using Magnetic Nanofluid. 2012 ,	
574	Pool Boiling Heat Transfer of Borated (H ₃ BO ₃) Water on a Nanoporous Surface. 2012 ,	
573	A Review on Critical Heat Flux Enhancement With Nanofluids and Surface Modification. 2012 , 134,	66
572	Transient Characteristics of Pool Boiling Heat Transfer in Nanofluids. 2012 , 134,	14
571	Rheology and Structure of Emulsions and Suspensions. 2012 , 33, 177-184	11
570	Nanofluids as Advanced Coolants. 2012 , 397-415	3

569	Investigations on heat transfer enhancement in pool boiling with water-CuO nano-fluids. 2012 , 21, 179-183	11
568	Experimental studies on CHF enhancement in pool boiling with CuO-water nanofluid. 2012 , 48, 1031-1041	20
567	Visualized effect of alumina nanoparticles surface deposition on water flow boiling heat transfer. 2012 , 37, 154-163	21
566	Studies on nanoparticle coating due to boiling induced precipitation and its effect on heat transfer enhancement on a vertical cylindrical surface. 2012 , 38, 229-236	8
565	An experimental investigation on thermo-physical properties and overall performance of MWCNT/heat transfer oil nanofluid flow inside vertical helically coiled tubes. 2012 , 40, 103-111	163
564	Investigation of pool boiling of nanofluids using artificial neural networks and correlation development techniques. 2012 , 39, 424-431	19
563	Effects of particle volume fraction on spray heat transfer performance of Al ₂ O ₃ /water nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 1014-1021	4.9 34
562	Latest developments on the viscosity of nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 874-885	4.9 438
561	Experimental study on the pool boiling CHF enhancement using magnetite-water nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 2656-2663	4.9 39
560	Boiling time effect on CHF enhancement in pool boiling of nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 2719-2725	4.9 45
559	Experimental investigation of the effect of particle deposition on pool boiling of nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 3423-3436	4.9 47
558	Heat transfer characteristics of multiwall carbon nanotube suspensions (MWCNT nanofluids) in intertube falling-film flow. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 3186-3195	4.9 33
557	Application of Computational Fluid Dynamics (CFD) for nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 4104-4115	4.9 184
556	Influence of nanoparticles on boiling heat transfer. <i>Applied Thermal Engineering</i> , 2012 , 41, 2-9	5.8 46
555	Investigations on the pool boiling heat transfer and critical heat flux of ZnO-ethylene glycol nanofluids. <i>Applied Thermal Engineering</i> , 2012 , 37, 112-119	5.8 73
554	Study on boiling heat transfer of water-TiO ₂ and water-MWCNT nanofluids based laminar jet impingement on heated steel surface. <i>Applied Thermal Engineering</i> , 2012 , 37, 353-359	5.8 61
553	Numerical study of natural convection of a nanofluid in C-shaped enclosures. 2012 , 55, 76-89	66
552	Heat transfer of nanofluids in turbulent pipe flow. 2012 , 56, 58-69	35

551	Assessing colloidal stability of long term MWCNT based nanofluids. 2012 , 381, 17-23		53
550	Mechanisms proposed through experimental investigations on thermophysical properties and forced convective heat transfer characteristics of various nanofluids [A review]. 2012 , 16, 3917-3938		123
549	Shear viscosity enhancement in water-nanoparticle suspensions. 2012 , 376, 860-863		12
548	The bubble fossil record: insight into boiling nucleation using nanofluid pool-boiling. 2012 , 48, 267-274		3
547	Nanofluids in thermosyphons and heat pipes: Overview of recent experiments and modelling approaches. 2013 , 72, 1-17		88
546	Pool boiling characteristics of nanofluid on flat plate based on heater surface analysis. 2013 , 47, 113-120		70
545	Effects of nanofluids on heat transfer characteristics of a two-phase closed thermosyphon. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 65, 610-618	4-9	57
544	Experimental investigation on pool boiling heat transfer of ZnO, and CuO water-based nanofluids and effect of surfactant on heat transfer coefficient. 2013 , 45, 122-129		43
543	Enhanced Critical Heat Flux During Quenching of Extremely Dilute Aqueous Colloidal Suspensions With Graphene Oxide Nanosheets. 2013 , 135,		12
542	A two-phase numerical study of buoyancy-driven convection of alumina-water nanofluids in differentially-heated horizontal annuli. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 65, 327-338	4-9	30
541	Effects of nanofluids and nanocoatings on the thermal performance of an evaporator with rectangular microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 67, 183-193	4-9	20
540	Experimental investigation on heat transfer enhancement due to Al ₂ O ₃ -water nanofluid using impingement of round jet on circular disk. 2013 , 74, 199-207		19
539	The boiling phenomenon of alumina nanofluid near critical heat flux. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 62, 718-728	4-9	37
538	Two-phase mixture modeling of natural convection of nanofluids with temperature-dependent properties. 2013 , 71, 182-195		91
537	Applications of Nanomaterials in Solar Energy and Desalination Sectors. 2013 , 45, 303-329		3
536	The effect of surface area on pool boiling heat transfer coefficient and CHF of Al ₂ O ₃ /water nanofluids. 2013 , 27, 3177-3182		15
535	Effects of a Nanofluid and Magnetic Field on the Thermal Efficiency of a Two-Phase Closed Thermosyphon. 2013 , 42, 630-650		10
534	Extinction coefficient of aqueous nanofluids containing multi-walled carbon nanotubes. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 67, 930-935	4-9	56

533	Experimental investigation of thermal conductivity and heat pipe thermal performance of ZnO nanofluids. 2013 , 63, 125-132		84
532	Numerical investigation of subcooled flow boiling of a nanofluid. 2013 , 64, 232-239		39
531	Semi-analytical model for pool boiling of nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 57, 32-47	4.9	26
530	Boiling behaviors and critical heat flux on a horizontal and vertical plate in saturated pool boiling with and without ZnO nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 57, 595-607	4.9	36
529	The effect of using nano-particles on corrugated plate heat exchanger performance. <i>Applied Thermal Engineering</i> , 2013 , 52, 221-229	5.8	74
528	Boiling and two-phase flow phenomena of refrigerant-based nanofluids: Fundamentals, applications and challenges. 2013 , 36, 421-446		77
527	Effect of ionic additive on pool boiling critical heat flux of titania/water nanofluids. 2013 , 49, 1-10		14
526	Tuning the thermal diffusivity of silver based nanofluids by controlling nanoparticle aggregation. 2013 , 24, 365601		10
525	Heat Transfer with Nanofluids. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2013 , 121-164	0.4	2
524	Influence of Nonionic Surfactant Addition on Drag Reduction of Water Based Nanofluid in a Small Diameter Pipe. 2013 , 21, 104-108		19
523	Transport properties of nanofluids. A critical review. 2013 , 38, 1-79		65
522	Boiling heat transfer enhancement of magnetically actuated nanofluids. 2013 , 102, 163107		17
521	Graphene-enhanced nanorefrigerants. 2013 , 5, 541-7		7
520	A review of nanofluid heat transfer and critical heat flux enhancement Research gap to engineering application. 2013 , 66, 13-24		151
519	Nucleate pool boiling heat transfer characteristics of refrigerant/nanolubricant mixture with surfactant. 2013 , 36, 1045-1055		38
518	Richardson Number Ratio Effect on Laminar Mixed Convection of a Nanofluid Flow in an Annulus. 2013 , 14, 304-316		35
517	Heat Transfer Characteristics of Nano-Fluids. 2013 , 757, 175-195		1
516	Experimental investigation of pool boiling heat transfer enhancement of alumina/water/ethylene glycol nanofluids. 2013 , 44, 805-814		78

515	Experimental investigation of transient critical heat flux of water-based zinc oxide nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 61, 425-431	4.9	28
514	Thermal-hydraulic modeling of nanofluids as the coolant in VVER-1000 reactor core by the porous media approach. 2013 , 51, 203-212		35
513	Pool boiling characteristics of microalgae suspension for biofuels production. <i>Applied Thermal Engineering</i> , 2013 , 50, 1369-1375	5.8	12
512	Optimization of laminar pipe flow using nanoparticle liquid suspensions for cooling applications. <i>Applied Thermal Engineering</i> , 2013 , 50, 857-867	5.8	12
511	Experimental investigation and comparison of subcooled flow boiling of TiO ₂ nanofluid in a vertical and horizontal tube. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2013 , 227, 1742-1753	1.3	24
510	An analytical study on entropy generation of nanofluids over a flat plate. 2013 , 52, 595-604		59
509	Nanofluids including ceramic and other nanoparticles: applications and rheological properties. 2013 , 323-345		1
508	Using an Inorganic Aqueous Solution (IAS) in Copper and Aluminum Phase Change Heat Transfer Devices. 2013 ,		2
507	Experimental Study on Heat Transfer of Fuel-Particle Mixtures in a Vertical Tube at Supercritical Pressure. 2013 ,		
506	Flow Boiling Heat Transfer and Two-Phase Flow Instability of Nanofluids in a Minichannel. 2013 ,		1
505	Nanofluid Boiling Heat Transfer and Critical Heat Flux Enhancement: Mechanism to Be Revealed. 2013 ,		
504	Investigation of Single Phase Models for Predicting Pressure Drop in Nanofluid Flow in Circular Pipes. 2013 ,		
503	Boiling Heat Transfer and Critical Heat Flux Enhancement of Upward- and Downward-Facing Heater in Nanofluids. 2013 , 135,		6
502	Pool Boiling Heat Transfer of Borated (H ₃ BO ₃) Water on a Nanoporous Surface. 2013 , 135,		5
501	Plasmonic "pump-probe" method to study semi-transparent nanofluids. 2013 , 52, 6041-50		50
500	Pool Boiling of Nanofluids in Vertical Porous Media. 2013 , 388, 18-22		2
499	PREDICTION OF CONVECTIVE HEAT TRANSFER OF NANOFLUIDS BASED ON FRACTAL-MONTE CARLO SIMULATIONS. 2013 , 24, 1250090		27
498	Exergy analysis of laminar forced convection of nanofluids through a helical coiled tube with uniform wall heat flux. 2013 , 13, 21		6

497	Pool-Boiling Heat Transfer Characteristics of Al ₂ O ₃ -Water Nanofluids on a Horizontal Cylindrical Heating Surface. 2013 , 9, 56-60	11
496	Visualization Study of Pool Boiling on Polished and Porous Coated Surfaces for Deionized Water and Al ₂ O ₃ -Water Nano-Fluids. 2013 ,	
495	- Optimisation of Adsorption Dynamics in Adsorptive Heat Transformers: Experiment and Modelling. 2013 , 82-127	1
494	Forced Convective and Nucleate Flow Boiling Heat Transfer to Alumina Nanofluids. 2014 , 58, 37	52
493	EXPERIMENTAL STUDY ON THERMAL TRANSPORT PHENOMENON OF NANOFUIDS AS WORKING FLUID IN HEAT EXCHANGER. 2014 , 22, 1450005	16
492	Preparation, thermo-physical properties and heat transfer enhancement of nanofluids. 2014 , 1, 032001	41
491	Heat transfer enhancement of pool boiling for a horizontal U-tube using TiO ₂ -R141b nanofluid. 2014 , 28, 5197-5204	3
490	New Pool Boiling Heat Transfer in the Presence of Low-Frequency Vibrations Into a Vertical Cylindrical Heat Source. 2014 , 27, 428-437	14
489	A brief review on viscosity of nanofluids. 2014 , 4, 109-120	236
488	Natural convection inside a C-shaped nanofluid-filled enclosure with localized heat sources. 2014 , 24, 1954-1978	38
487	Rheological behaviour and the hysteresis phenomenon of Al ₂ O ₃ nanofluids. 2014 , 18, S6-47-S6-50	8
486	Near-Field Nanofluid Concentration Measurement by Rayleigh Particle Scattering Bragg Grating Evanescent Wave. 2014 , 8, 100-113	1
485	Viscous Dissipative Microchannel Flow of a Nanofluid Under Magneto-Hydrodynamic (MHD) Effect and With Boundary Slip. 2014 , 18, 137-154	4
484	A comprehensive review of fundamentals, preparation and applications of nanorefrigerants. 2014 , 54, 81-95	41
483	Simple glucose reduction route for one-step synthesis of copper nanofluids. 2014 , 4, 47-54	20
482	Pool boiling experiments in reduced graphene oxide colloids. Part I Boiling characteristics. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 74, 501-512	4.9 43
481	Experimental investigation of Al ₂ O ₃ nanofluids thermal properties and rheology Effects of transient and steady-state heat exposure. 2014 , 76, 155-167	21
480	Experimental investigation on the thermo-physical properties of Al ₂ O ₃ nanoparticles suspended in car radiator coolant. 2014 , 54, 48-53	141

479	Influences of nanoparticles on pool boiling heat transfer in porous metals. <i>Applied Thermal Engineering</i> , 2014 , 65, 34-41	5.8	24
478	Titanium dioxide nanofluids for heat transfer applications. 2014 , 52, 19-29		87
477	Experimental investigation of the forced convective boiling heat transfer of R-600a/oil/nanoparticle. 2014 , 55, 71-76		16
476	Experimental investigation of the Cu/R141b nanofluids on the evaporation/boiling heat transfer characteristics for surface with capillary micro-channels. 2014 , 50, 1261-1274		11
475	Solvent-controlled spin-coating method for large-scale area deposition of two-dimensional silica nanosphere assembled layers. 2014 , 30, 5732-8		38
474	Convective boiling and particulate fouling of stabilized CuO-ethylene glycol nanofluids inside the annular heat exchanger. 2014 , 53, 116-123		81
473	Role of nanoparticles on nanofluid boiling phenomenon: Nanoparticle deposition. 2014 , 92, 842-856		54
472	Scale formation and subcooled flow boiling heat transfer of CuO/water nanofluid inside the vertical annulus. 2014 , 52, 205-214		91
471	Lattice Boltzmann Simulation of Natural Convection in a Square Cavity with a Linearly Heated Wall Using Nanofluid. 2014 , 39, 2143-2156		11
470	On two-fluid modeling of nucleate boiling of dilute nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 69, 443-450	4.9	27
469	A novel method to evaluate dispersion stability of nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 70, 421-429	4.9	41
468	A review of modern advances in analyses and applications of single-phase natural circulation loop in nuclear thermal hydraulics. 2014 , 280, 326-348		65
467	Experimental Investigation of Pool Boiling Performance of Alumina/Ethylene-Glycol/Water (60/40) Nanofluids. 2014 , 28, 724-734		5
466	Interaction of nanoparticles for the peristaltic flow in an asymmetric channel with the induced magnetic field. 2014 , 129, 1		89
465	Review of the Manufacturing Techniques for Porous Surfaces Used in Enhanced Pool Boiling. 2014 , 35, 887-902		71
464	Experimental observation of the critical heat flux (CHF) enhancement of the nanofluids by the electrical explosion of a wire in liquid. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 79, 868-875	4.9	3
463	Experimental Investigations of Pool Boiling Heat Transfer Characteristics on a Vertical Surface Using CuO Nanoparticles in Distilled Water. 2014 , 35, 1279-1287		4
462	Experimental investigation of flow boiling heat transfer of R-600a/oil/CuO in a plain horizontal tube. 2014 , 58, 105-111		32

461	CFD simulation of heat transfer enhancement of Al ₂ O ₃ /water and Al ₂ O ₃ /ethylene glycol nanofluids in a car radiator. <i>Applied Thermal Engineering</i> , 2014 , 73, 380-390	5.8	67
460	Nucleate pool boiling heat transfer characteristics of dilute Al ₂ O ₃ -ethylene glycol nanofluids. 2014 , 58, 96-104		63
459	Effect of surface roughness on pool boiling heat transfer in subcooled water-CuO nanofluid. 2014 , 28, 3371-3376		8
458	Generation and Characterization of Copper Nanoparticles Using Micro-Electrical Discharge Machining. 2014 , 29, 477-486		30
457	Surface tension, viscosity, and rheology of water-based nanofluids: a microscopic interpretation on the molecular level. 2014 , 16, 1		52
456	Sedimentation and convective boiling heat transfer of CuO-water/ethylene glycol nanofluids. 2014 , 50, 1237-1249		68
455	Critical heat flux of nanofluids inside a single microchannel: Experiments and correlations. 2014 , 92, 2339-2351	18	
454	Investigating the rheological properties of nanofluids of water/hybrid nanostructure of spherical silica/MWCNT. 2014 , 578, 53-58		70
453	Heat transfer performance of jet impingement flow boiling using Al ₂ O ₃ -water nanofluid. 2014 , 28, 1559-1566	10	
452	A Correlation for the Prediction of Heat Flux for Nucleate Pool Boiling Heat Transfer of Nanofluid. 2014 , 39, 4997-5006		10
451	Nucleate boiling of dilute nanofluids [Mechanism exploring and modeling. 2014 , 84, 323-334		21
450	Field-synergy analysis of viscous dissipative nanofluid flow in microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 73, 483-491	4.9	32
449	Nanofluidics. 2014 ,		21
448	Experimental study on thermal performances of heat pipes for air-conditioning systems influenced by magnetic nanofluids, external fields, and micro wicks. 2014 , 43, 62-70		22
447	Improving the supercooling degree of titanium dioxide nanofluids with sodium dodecylsulfate. 2014 , 124, 248-255		45
446	The quenching of silver rod in boiling carbon nano tube-water nanofluid. 2014 , 75, 95-104		28
445	Mass transfer enhancement during CO ₂ absorption process in methanol/Al ₂ O ₃ nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 76, 484-491	4.9	78
444	Buoyancy-induced convection in . 2014 , 48, 123-134		15

443	Experimental investigation of the nucleate pool boiling heat transfer characteristics of Al_2O_3 -R141b nanofluids on a horizontal plate. 2014 , 52, 88-96	55
442	Measurement of velocity profiles of nanofluids in laminar channel flow using Particle Image Velocimetry. 2014 , 79, 187-190	
441	Evaluation of Nanoparticle Shape Effect on a Nanofluid Based Flat-Plate Solar Collector Efficiency. 2015 , 33, 659-676	41
440	Nanofluids. 2015 , 1-21	
439	Effect of surface tension on SiO_2 -methanol nanofluids. 2015 , 88, 012056	4
438	Highly wettable CuO :graphene oxide core-shell porous nanocomposites for enhanced critical heat flux. 2015 , 212, 1756-1766	24
437	Experimental Setup for Investigation on Microwaves Interaction with Nanofluids. 2015 ,	
436	Pool Boiling of $\text{Water}/\text{Al}_2\text{O}_3$ and Water/Cu Nanofluids Outside Porous Coated Tubes. 2015 , 36, 553-563	21
435	Heat Flux Controlled Pool Boiling of Zirconia/Water and Silver/Water Nanofluids on a Flat Plate: A Coupled Map Lattice Simulation. 2015 , 137,	3
434	Formation of Nano-Adsorption Layer and Its Effects on Nanofluid Spray Heat Transfer Performance. 2015 , 137,	6
433	Enhanced natural convection heat transfer of nanofluids in enclosures with two adjacent walls heated and the two opposite walls cooled. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 88, 902-913	4-9 47
432	Evaporation of nanofluid droplet on heated surface. 2015 , 7, 168781401557835	11
431	Evaporation Kinetics and Residue Patterns of a Nanofluid Droplet. 2015 ,	
430	Pressure drop and thermal performance of CuO /ethylene glycol (60%)-water (40%) nanofluid in car radiator. 2015 , 32, 609-616	44
429	Flow and Heat Transfer of Single-and Two-Phase Boiling of Nanofluids in Microchannels. 2015 , 36, 1252-1265	20
428	Bubble Dynamics in Pool Boiling on Nanoparticle-Coated Surfaces. 2015 , 36, 1013-1027	25
427	Experimental investigation on surface tension of metal oxide/water nanofluids. 2015 , 65, 82-88	60
426	A mathematic model considering the effect of Brownian motion for subcooled nucleate pool boiling of dilute nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 84, 46-53	4-9 12

425	A study on nucleate boiling heat transfer characteristics of pentane and CuO-pentane nanofluid on smooth and milled surfaces. 2015 , 64, 23-29		14
424	Experimental investigation of stability and thermophysical properties of carbon nanotubes suspension in the presence of different surfactants. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 120, 1193-1201	4.1	55
423	Heat transfer mechanisms in pulsating heat-pipes with nanofluid. 2015 , 106, 013906		13
422	Phase-dependent thermophysical properties of TiO_2 and Al_2O_3 in aqueous suspension. 2015 , 25, 99-104		6
421	Pool boiling heat transfer to dilute copper oxide aqueous nanofluids. 2015 , 90, 224-237		75
420	Rheological Characteristics, Pressure Drop, and Skin Friction Coefficient of MWCNT Oil Nanofluid Flow Inside an Inclined Microfin Tube. 2015 , 36, 1436-1446		9
419	Subcooled flow boiling of alumina/water nanofluid in a channel with a hot spot: An experimental study. <i>Applied Thermal Engineering</i> , 2015 , 90, 384-394	5.8	25
418	Numerical simulation on single bubble behavior during $\text{Al}_2\text{O}_3/\text{H}_2\text{O}$ nanofluids flow boiling using Moving Particle Semi-implicit method. 2015 , 85, 130-139		44
417	Flow Boiling Heat Transfer and Two-Phase Flow Instability of Nanofluids in a Minichannel. 2015 , 137,		30
416	Review of boiling heat transfer enhancement on micro/nanostructured surfaces. 2015 , 66, 173-196		219
415	Molecular dynamics simulation on flow behaviors of nanofluids confined in nanochannel. 2015 , 5, 114-121		25
414	Intensification of forced convection heat transfer using biological nanofluid in a double-pipe heat exchanger. 2015 , 66, 279-289		87
413	Thermal Properties of Nanoparticles. 2015 , 181-203		
412	Comparative studies of pool boiling heat transfer with nano-fluids on porous surface. 2015 , 51, 1769-1777		13
411	Natural Convection of Nanofluids in Enclosures Heated Laterally and Underneath. 2015 , 737, 301-312		
410	Thermodynamic properties of Al_2O_3 nanolubricants: Part 1 Effects on the two-phase pressure drop. 2015 , 21, 607-620		11
409	Performance enhancement of solar collectors: A review. 2015 , 49, 192-210		214
408	Thermal analysis of $\text{Al}_2\text{O}_3/\text{water}$ nanofluid-filled micro heat pipes. 2015 , 5, 26716-26725		8

407	Experimental investigation of heat transfer characteristics of the hot surface using Al ₂ O ₃ water nanofluids. 2015 , 91, 104-113		25
406	Exact solutions for free convection flow of nanofluids with ramped wall temperature. 2015 , 130, 1		65
405	A comprehensive review on pool boiling of nanofluids. <i>Applied Thermal Engineering</i> , 2015 , 84, 45-63	5.8	108
404	Nanofluid pool boiling heat transfer phenomenon. 2015 , 277, 181-192		41
403	Experimental investigation on the use of reduced graphene oxide and its hybrid complexes in improving closed conduit turbulent forced convective heat transfer. 2015 , 66, 290-303		37
402	Effect of Nanoparticles Concentration and Their Sizes on Surface Tension of Nanofluids. 2015 , 105, 431-437		108
401	Characterization of Thermal Conductivity and Viscosity of Nanofluids with Aqueous Base Fluids. 2015 , 1101, 344-347		
400	Modeling of particle agglomeration in nanofluids. 2015 , 117, 094304		20
399	Experimental investigation of thermal conductivity of medical nanofluids based on functionalised single-wall carbon nanotube and conjugated cisplatin. 2015 , 10, 241-247		12
398	Supercooling and cold energy storage characteristics of nano-media in ball-packed porous structures. 2015 , 5, 041329		5
397	A theoretical model for nucleate boiling of nanofluids considering the nanoparticle Brownian motion in liquid microlayer. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 91, 467-476	4.9	15
396	Forced Convective Heat Transfer in AL ₂ O ₃ -air Nanoaerosol. 2015 ,		0
395	A parametric study of the heat flux partitioning model for nucleate boiling of nanofluids. 2015 , 98, 42-50		20
394	Review on thermal properties of nanofluids: Recent developments. 2015 , 225, 146-76		263
393	A critical investigation of the anomalous behavior of molten salt-based nanofluids. 2015 , 69, 51-58		22
392	Effects of different models of thermal conductivity on turbulent nanofluid flow through rectangular cavity in duct. <i>Journal of Molecular Liquids</i> , 2015 , 212, 915-921	6	5
391	Numerical Simulation of Nanoparticles Concentration Effect on Forced Convection in a Tube With Nanofluids. 2015 , 36, 1144-1153		13
390	Review of heat transfer in nanofluids: Conductive, convective and radiative experimental results. 2015 , 43, 1182-1198		183

389	Thermal conductivity, viscosity and rheology of a suspension based on Al ₂ O ₃ nanoparticles and mixture of 90% ethylene glycol and 10% water. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 83, 187-191	4.9	34
388	The role of enhancement techniques on heat and mass transfer characteristics of shell and tube spray evaporator: a detailed review. <i>Applied Thermal Engineering</i> , 2015 , 75, 923-940	5.8	40
387	Study of viscosity and specific heat capacity characteristics of water-based Al ₂ O ₃ nanofluids at low particle concentrations. 2015 , 10, 86-102		111
386	Boiling characteristics on the reduced graphene oxide films. 2015 , 60, 361-366		15
385	Effects of Inclination Angle on Laminar Mixed Convection of a Nanofluid Flowing through an Annulus. 2015 , 202, 1693-1702		39
384	Effect of concentration on R134a/Al ₂ O ₃ nanolubricant mixture boiling on a reentrant cavity surface. 2015 , 49, 36-48		34
383	Heat transfer characteristics and CHF prediction in nanofluid boiling. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 80, 256-265	4.9	25
382	Viscosity of nanofluids: particle shape and fractal aggregates. 2015 , 53, 174-186		12
381	Numerical study of low concentration nanofluids pool boiling, investigating of boiling parameters introducing nucleation site density ratio. 2015 , 51, 601-609		6
380	Review on combined heat and mass transfer characteristics in nanofluids. 2015 , 87, 49-67		148
379	Parametric study of pool boiling heat transfer with nanofluids for the enhancement of critical heat flux: A review. 2015 , 87, 228-240		94
378	Review of the influence of nanoparticles on thermal conductivity, nucleate pool boiling and critical heat flux. 2015 , 51, 381-398		18
377	Effect of Uniformly and Nonuniformly Coated Al ₂ O ₃ Nanoparticles over Glass Tube Heater on Pool Boiling. 2016 , 2016, 1-6		2
376	Boiling Heat Transfer of Alumina Nano-Fluids: Role of Nanoparticle Deposition on the Boiling Heat Transfer Coefficient. 2016 , 60, 252-258		64
375	Synthesis and thermal characterization of Al ₂ O ₃ nanoparticles. <i>Journal of Physics: Conference Series</i> , 2016 , 776, 012048	0.3	
374	Nanotechnologies for thermophysics: Heat transfer and crisis phenomena at boiling. 2016 , 11, 696-715		36
373	A recent review on thermo-physical properties of nanofluid. 2016 ,		3
372	Numerical and Experimental Investigation Into the Effects of Nanoparticle Mass Fraction and Bubble Size on Boiling Heat Transfer of TiO ₂ Water Nanofluid. 2016 , 138,		20

371	The effects of nanolubricants on boiling and two phase flow phenomena: A review. 2016 , 75, 197-205		8
370	Thermal performance of a counter-current double pipe heat exchanger working with COOH-CNT/water nanofluids. 2016 , 78, 41-49		77
369	An experimental study on viscosity of alumina-engine oil: Effects of temperature and nanoparticles concentration. 2016 , 76, 202-208		127
368	Heat transfer and critical heat flux of nanofluid boiling: A comprehensive review. 2016 , 62, 924-940		87
367	A Study on Nucleate Boiling Heat Transfer Characteristics of Acetone on Smooth and Indented Surfaces. 2016 , 29, 414-425		9
366	Experimental investigation on nanofluid flow boiling heat transfer in a vertical tube under different pressure conditions. 2016 , 77, 116-123		39
365	Subcooled flow boiling of ethylene glycol/water mixture in an inclined channel with a hot spot: An experimental study. 2016 , 78, 285-294		4
364	Nanoemulsions: Biobased Oil Nanoemulsion Preparation, Characterization, and Application. 2016 , 714-729		
363	Nanoemulsions: Nanoemulsion-Based Systems for Food Applications. 2016 , 730-738		
362	Convective heat transfer enhancement with nanoaerosols. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 102, 1180-1189	4.9	4
361	Experimental and numerical investigation on natural convection heat transfer in nanofluids. 2016 , 81, 60-66		1
360	Experimental study of forced convection and subcooled flow boiling heat transfer in a vertical annulus using different novel functionalized ZnO nanoparticles. <i>Applied Thermal Engineering</i> , 2016 , 109, 789-802	5.8	20
359	A Critical Review of Dynamic Wetting by Complex Fluids: From Newtonian Fluids to Non-Newtonian Fluids and Nanofluids. 2016 , 236, 43-62		108
358	A review on nanofluids: Data-driven modeling of thermalphysical properties and the application in automotive radiator. 2016 , 66, 596-616		46
357	Three-dimensional lattice Boltzmann simulation of suspensions containing both micro- and nanoparticles. 2016 , 62, 560-567		17
356	Review of the mechanisms responsible for heat transfer enhancement using nanofluids. <i>Applied Thermal Engineering</i> , 2016 , 108, 720-739	5.8	129
355	An experimental determination of thermal conductivity and viscosity of BioGlycol/water based TiO ₂ nanofluids. 2016 , 77, 22-32		59
354	Temperature effects on the enhanced or deteriorated buoyancy-driven heat transfer in differentially heated enclosures filled with nanofluids. 2016 , 70, 223-241		4

353	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
352	Experimental investigation and development of new correlation for thermal conductivity and viscosity of BioGlycol/water based SiO ₂ nanofluids. 2016 , 77, 54-63		34
351	Thermal transport phenomena in nanoparticle suspensions. 2016 , 28, 483003		40
350	Effects of particle shape and size on nanofluid properties for potential Enhanced Oil Recovery (EOR). 2016 , 69, 03006		4
349	Characterization of TiO ₂ , Al ₂ O ₃ and SiO ₂ Nanoparticle based Cutting Fluids. 2016 , 3, 1890-1898		16
348	Boiling heat transfer enhancement of nanofluids on a smooth surface with agitation. 2016 , 52, 2769-2780		4
347	An experimental study of the latent functionally thermal fluid with micro-encapsulated phase change material particles flowing in microchannels. <i>Applied Thermal Engineering</i> , 2016 , 105, 209-216	5.8	39
346	CO ₂ regeneration performance enhancement by nanoabsorbents for energy conversion application. <i>Applied Thermal Engineering</i> , 2016 , 103, 980-988	5.8	11
345	Nanofluid forced convection in entrance region of a baffled channel considering nanoparticle migration. <i>Applied Thermal Engineering</i> , 2016 , 106, 293-306	5.8	12
344	Particle migration in nanofluids: A critical review. 2016 , 109, 90-113		129
343	Review on nanofluids characterization, heat transfer characteristics and applications. 2016 , 64, 163-173		138
342	Systematic measurements of heat transfer characteristics in saturated pool boiling of water-based nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 102, 264-276	4.9	31
341	Investigation on the Effect of Type and Size of Nanoparticles and Surfactant on Pool Boiling Heat Transfer of Nanofluids. 2016 , 138,		11
340	Exact analysis for the effect of heat transfer on MHD and radiation Marangoni boundary layer nanofluid flow past a surface embedded in a porous medium. <i>Journal of Molecular Liquids</i> , 2016 , 215, 625-639	6	47
339	A review on the two-phase heat transfer characteristics in helically coiled tube heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 95, 551-565	4.9	59
338	Mechanistic Considerations for Enhancing Flow Boiling Heat Transfer in Microchannels. 2016 , 138,		30
337	The enhancement of effective thermal conductivity and effective dynamic viscosity of nanofluids □ A review. 2016 , 53, 1046-1058		198
336	Investigation on the Use of Graphene Oxide as Novel Surfactant for Stabilizing Carbon Based Materials. 2016 , 37, 1395-1407		14

335	Assessment of the process of boiling heat transfer during rewetting of a vertical tube bottom flooded by alumina nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 94, 390-402	4.9	33
334	Numerical investigation of nanofluid natural convection coupling with nanoparticles sedimentation. <i>Applied Thermal Engineering</i> , 2016 , 95, 411-420	5.8	16
333	Experimental Investigation of Saturated Flow Boiling Heat Transfer to TiO ₂ /R141b Nanorefrigerant. 2016 , 29, 188-204		19
332	A new semi-analytical model for effective thermal conductivity of nanofluids. 2016 , 54, 647-662		3
331	A review on the heat and mass transfer phenomena in nanofluid coolants with special focus on automotive applications. 2016 , 60, 1615-1633		76
330	Role of nanoparticles on boiling heat transfer performance of ethylene glycol aqueous solution based graphene nanosheets nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 96, 565-574	4.9	27
329	Effect of nanofluid concentration and composition on laminar jet impinged cooling of heated steel plate. <i>Applied Thermal Engineering</i> , 2016 , 100, 237-246	5.8	21
328	Role of temperature on thermal conductivity of nanofluids: a brief literature review. 2016 , 52, 2575-2585		16
327	Experimental investigation of the propylene glycol-treated graphene nanoplatelets for the enhancement of closed conduit turbulent convective heat transfer. 2016 , 73, 43-53		22
326	Experimental investigation on heat transfer performance of TiO ₂ nanofluids in water/ethylene glycol mixture. 2016 , 73, 16-24		58
325	Experimental investigation into effects of ultrasonic vibration on pool boiling heat transfer performance of horizontal low-finned U-tube in TiO ₂ /R141b nanofluid. 2016 , 52, 2381-2390		8
324	Numerical simulation of nanofluid application in a horizontal mesh heat pipe with multiple heat sources: A smart fluid for high efficiency thermal system. <i>Applied Thermal Engineering</i> , 2016 , 100, 1016-1030	5.8	33
323	Nanorefrigerants: A comprehensive review on its past, present and future. 2016 , 67, 290-307		52
322	Single-phase models for improved estimation of friction factor for laminar nanofluid flow in pipes. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 95, 416-425	4.9	8
321	Critical heat flux and pool boiling heat transfer analysis of synthesized zirconia aqueous nano-fluids. 2016 , 70, 75-83		85
320	Bulk Dissipation in Nanofluid Dynamic Wetting: Wettability-Related Parameters. <i>Springer Theses</i> , 2016 , 59-76	0.1	
319	Pool boiling heat transfer of water/alumina micro-fluids around the horizontal cylinder. 2016 , 52, 763-772		1
318	A RBF model for predicting the pool boiling behavior of nanofluids over a horizontal rod heater. 2016 , 99, 180-194		50

317	Comparatively experimental study on the boiling thermal performance of metal oxide and multi-walled carbon nanotube nanofluids. 2016 , 287, 412-430		69
316	Combined Effects of Slip Motion and Boundary Conditions on Enhanced Heat Transfer in Natural Convection Flows of Enclosed Nanofluids. 2016 , 37, 1062-1074		2
315	The Viscosity of Nanofluids: A Review of the Theoretical, Empirical, and Numerical Models. 2016 , 37, 387-421		139
314	Experimental analysis of nanofluid pool boiling heat transfer in copper bead packed porous layers. 2017 , 53, 877-885		6
313	Experimental study of transition flow from single phase to two phase flow boiling in nanofluids. <i>Journal of Molecular Liquids</i> , 2017 , 231, 11-19	6	24
312	Nanofluids for Enhanced Solar Thermal Energy Conversion. 2017 , 115-148		
311	Mechanism of Heat Transfer with Nanofluids for the Application in Oil Wells. 2017 , 175-192		1
310	Engineering Applications of Nanotechnology. 2017 ,		5
309	A review on thermophysical properties of nanofluids and heat transfer applications. 2017 , 74, 638-670		289
308	Thermal Hydraulic Modeling and Analysis of Fusion Reactors Plasma Facing Components Using Alumina Nanofluids. 2017 , 9,		2
307	Nanofluids for Efficient Heat Transfer Applications. 2017 , 997-1028		3
306	Thermophoresis-induced oscillatory natural convection flows of water-based nanofluids in tilted cavities. 2017 , 71, 270-289		5
305	Buoyancy-driven convection of nanofluids in inclined enclosures. 2017 , 122, 63-76		6
304	Evaluation of the heat transfer enhancement during pool boiling using low concentrations of Al ₂ O ₃ -water based nanofluid. 2017 , 87, 191-200		44
303	Simultaneous effect of staggered baffles and dispersed nanoparticles on thermal performance of a cooling channel. <i>Applied Thermal Engineering</i> , 2017 , 120, 748-762	5.8	1
302	A macroscopic filtration model for natural convection in a Darcy Maxwell nanofluid saturated porous layer with no nanoparticle flux at the boundary. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 111, 451-466	4.9	8
301	Exact solutions for unsteady free convection flow of carbon nanotubes over an oscillating vertical plate. 2017 ,		3
300	Pool boiling heat transfer enhancement of distilled water with passive rotating blades installed above the heating surface. 2017 , 87, 109-116		10

299	An experimental study on deposited surfaces due to nanofluid pool boiling: Comparison between rough and smooth surfaces. 2017 , 88, 288-300		51
298	A review based on the effect and mechanism of thermal conductivity of normal nanofluids and hybrid nanofluids. <i>Journal of Molecular Liquids</i> , 2017 , 240, 420-446	6	162
297	Heat transfer performance of MQL grinding with different nanofluids for Ni-based alloys using vegetable oil. 2017 , 154, 1-11		169
296	Evaluation of performance and thermophysical properties of alumina nanofluid as a new heating medium for processing of food products. 2017 , 40, e12544		11
295	Does mathematics contribute to the nanofluid debate?. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 111, 279-288	4.9	66
294	Review: Enhancing efficiency of solar thermal engineering systems by thermophysical properties of a promising nanofluids. 2017 , 77, 1343-1348		17
293	An experimental investigation of the effect of the addition of nano Aluminum oxide on pool boiling of refrigerant 134A. 2017 , 53, 2597-2607		8
292	Application of Artificial Neural Network (ANN) for modeling oxide-based nanofluids dynamic viscosity. 2017 , 83, 8-14		47
291	An experimental investigation on wettability effects of nanoparticles in pool boiling of a nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 108, 32-40	4.9	42
290	Effect of nanoparticle size and concentration on boiling performance of SiO ₂ nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 107, 820-828	4.9	31
289	Molecular Dynamics Simulation of Pool Boiling Heat Transfer of Nanofluids on Rough Walls. 2017 ,		
288	Delay in DNB for flow boiling of diluted oxide based nanofluids. 2017 , 89, 211-218		11
287	Factors affecting the performance of hybrid nanofluids: A comprehensive review. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 115, 630-646	4.9	90
286	Numerical assessment of solar energy aspects on 3D magneto-Carreau nanofluid: A revised proposed relation. 2017 , 42, 22054-22065		42
285	Stick and oscillatory behavior of bubbles due to TiO ₂ nanoparticle coating in subcooled pool boiling on a wire. 2017 , 111, 061601		3
284	Study of pool boiling of distilled water on SiO ₂ nanoparticle-coated wire. <i>Journal of Physics: Conference Series</i> , 2017 , 925, 012029	0.3	1
283	Experimental investigation of thermal conductivity and specific heat of nanoparticles mixed cutting fluids. 2017 , 4, 8587-8596		27
282	Rheological characteristics of nanomaterials and nanocomposites. 2017 , 327-350		10

281	Smart role of Al ₂ O ₃ -water suspension on laminar heat transfer in entrance region of a channel with transverse in-line baffles. <i>Applied Thermal Engineering</i> , 2017 , 112, 450-463	5.8	6
280	Recent developments on fractal-based approaches to nanofluids and nanoparticle aggregation. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 105, 623-637	4.9	127
279	Effective viscosity of nanofluids [A modified Krieger-Dougherty model based on particle size distribution (PSD) analysis. <i>Journal of Molecular Liquids</i> , 2017 , 225, 20-27	6	27
278	Effect of interlaced wettability on horizontal copper cylinders in nucleate pool boiling. <i>Applied Thermal Engineering</i> , 2017 , 112, 1187-1194	5.8	27
277	Numerical Investigation of the Entropy Generation Due to Natural Convection in a Partially Heated Square Cavity Filled With Nanofluids. 2017 , 38, 1506-1521		5
276	The boiling performance of ZnO, Al ₂ O ₃ and MWCNTs/water nanofluids: An experimental study. 2017 , 80, 27-39		27
275	Experimental Measurements of Al ₂ O ₃ and CuO Nanofluids Interaction with Microwaves. 2017 , 143, 04016045		15
274	Pool boiling of Novec 7300 and DI water on nano-textured heater covered with supersonically-blown or electrospun polymer nanofibers. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 106, 482-490	4.9	32
273	Experimental analysis of magnetic field effect on the pool boiling heat transfer of a ferrofluid. <i>Applied Thermal Engineering</i> , 2017 , 111, 1101-1110	5.8	78
272	An Experimental Investigation of Nucleate Pool Boiling Heat Transfer of Nanofluids From a Hemispherical Surface. 2017 , 38, 919-930		22
271	Experimental investigation on the effect of dispersant addition on thermal and rheological characteristics of TiO ₂ nanofluid. 2017 , 307, 10-24		46
270	Marangoni convection in a thin layer of nanofluid: Application to combinations of water or ethanol with nanoparticles of alumina or multi-walled carbon nanotubules. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 104, 693-702	4.9	7
269	Experimental investigation on the effect of heat transfer enhancement of vacuum spray flash evaporation cooling using Al ₂ O ₃ /water nanofluid. 2017 , 142, 3766-3773		1
268	Characteristics of subcooled water boiling on structured surfaces. 2017 , 55, 880-886		12
267	Nanoparticle Deposition During Cu-Water Nanofluid Pool Boiling. <i>Journal of Physics: Conference Series</i> , 2017 , 923, 012004	0.3	2
266	Preparation and characterization of copper oxide nanoparticles and determination of enhancement in critical heat flux. 2017 , 21, 233-242		18
265	Computational analysis of nanofluids: A review. 2018 , 133, 1		14
264	Refrigeration capacity of silver nanofluids under electrohydrodynamic effect oriented to heat removal in machining process. 2018 , 96, 11-19		5

263	Dual enhancement in HTC and CHF for external tubular pool boiling [A mechanistic perspective and future directions. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 122, 1053-1073	4.9	9
262	CFD simulation of a concentrated salt nanofluid flow boiling in a rectangular tube. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 125, 218-228	4.9	18
261	Up to date review on the synthesis and thermophysical properties of hybrid nanofluids. 2018 , 190, 169-192		111
260	Review of pool boiling enhancement with additives and nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 124, 423-453	4.9	88
259	Stability and thermophysical measurements of TiO ₂ (anatase) nanofluids with different surfactants. <i>Journal of Molecular Liquids</i> , 2018 , 254, 98-107	6	50
258	A review on the applications of nanofluids in solar energy field. 2018 , 123, 398-406		198
257	The characteristics and correlation of nanofluid flow boiling critical heat flux. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 122, 212-221	4.9	20
256	CFD models comparative study on nanofluids subcooled flow boiling in a vertical pipe. 2018 , 73, 55-74		19
255	Pool boiling heat transfer enhancement by twisted-tape fins. <i>Applied Thermal Engineering</i> , 2018 , 135, 170-177	5.8	16
254	Investigation of the Use of an Inorganic Aqueous Solution in Copper-Made Phase-Change Heat Transfer Devices. 2018 , 140,		
253	Experimental investigation of time and repeated cycles in nucleate pool boiling of alumina/water nanofluid on polished and machined surfaces. 2018 , 54, 1653-1668		16
252	Study of pool boiling process for the refrigerant R11, isopropanol and isopropanol/Al ₂ O ₃ nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 118, 746-757	4.9	22
251	A review of studies using nanofluids in flat-plate and direct absorption solar collectors. 2018 , 84, 54-74		103
250	Synthesis of Cu-Al LDH nanofluid and its application in spray cooling heat transfer of a hot steel plate. 2018 , 335, 285-300		28
249	Enhanced boiling heat transfer by nano structured surfaces and nanofluids. 2018 , 82, 4028-4043		49
248	Prevailing Research Trends in Carbon Nanohorn and Polymer-based Hybrids. 2018 , 57, 118-132		8
247	Heat transfer and pressure drop performance of alumina/water nanofluid in a flat vertical tube of a radiator. 2018 , 205, 257-268		15
246	Effect of aluminum oxide and reduced graphene oxide mixtures on critical heat flux enhancement. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 116, 858-870	4.9	13

245	Estimation of pool boiling heat transfer coefficient of alumina water-based nanofluids by various artificial intelligence (AI) approaches. <i>Applied Thermal Engineering</i> , 2018 , 128, 1208-1222	5.8	50
244	Numerical study of silica-water based nanofluid nucleate pool boiling by two-phase Eulerian scheme. 2018 , 54, 773-784		12
243	Buoyancy-Induced Convection of Alumina-Water Nanofluids in Laterally Heated Vertical Slender Cavities. 2018 , 39, 1103-1116		1
242	Experimental investigations on nucleate boiling heat transfer of aqua based reduced graphene oxide nanofluids. 2018 , 54, 437-451		9
241	Measurement of boiling liquid levels by decomposition of sound waves in a waveguide. 2018 , 129, 248-257		8
240	EXPERIMENTAL INVESTIGATION OF THE EFFECT OF HEAT TRANSFER AND PRESSURE DROP ON PERFORMANCE OF A FLAT TUBE BY USING WATER-BASED Al ₂ O ₃ NANOFLUIDS. 2018 , 19, 1-17		9
239	Micro-Nano Scale Surface Coating for Nucleate Boiling Heat Transfer: A Critical Review. <i>Energies</i> , 2018 , 11, 3189	3.1	38
238	Magnetohydrodynamic radiative liquid thin film flow of kerosene based nanofluid with the aligned magnetic field. 2018 , 57, 3009-3017		20
237	The influence of thermal properties of delafossite nanofluid CuAlO ₂ on the turbulent natural convection inside a cavity. 2018 , 57, 3693-3708		2
236	Buoyancy-induced convection of water-based nanofluids from an enclosed heated cylinder. 2018 , 28, 2734-2755		1
235	Oscillate Boiling from Electrical Microheaters. 2018 , 10,		10
234	Synthesis and Performance Characterization of Nanolubricants Proposed for Heavy Load Ball Bearing. 2018 , 54, 75-87		1
233	Latest developments in boiling critical heat flux using nanofluids: A concise review. 2018 , 98, 59-66		44
232	Pool boiling heat transfer to zinc oxide-ethylene glycol nano-suspension near the critical heat flux. 2018 , 32, 2309-2315		5
231	Effects of nanoparticle types and size on boiling heat transfer performance under different pressures. 2018 , 8, 025005		7
230	Exploration of nanofluid pool boiling and deposition on a horizontal cylinder in Eulerian and Lagrangian frames. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 125, 959-971	4.9	12
229	Nanofluids for heat transfer applications: a review. 2018 , 40, 1		24
228	Particle size effect on thermophysical properties of nanofluid and nanofluid based phase change materials: A review. <i>Journal of Molecular Liquids</i> , 2018 , 265, 77-87	6	55

227	An experimental investigation on periodic single bubble growth and departure from a small heater submerged in a nanofluid containing moderately hydrophilic nanoparticles. 2018 , 95, 1-8		10
226	A non-Fourier approach towards the analysis of heat transfer enhancement with water based nanofluids through a channel. 2018 , 8, 055311		2
225	Effect of groove geometry on pool boiling heat transfer of water-titanium oxide nanofluid. 2018 , 54, 3473-3481		8
224	Wettability Effect on Pool Boiling: A Review. 2018 , 1-61		5
223	New nanofluids, based on clay minerals, as promising heat carriers for energetics. 2018 , 53, 255-269		3
222	Degraded boiling heat transfer from hotwire in ferrofluid due to particle deposition. <i>Applied Thermal Engineering</i> , 2018 , 142, 255-261	5.8	10
221	Molecular dynamics simulation on the effect of nanoparticle deposition and nondeposition on the nanofluid explosive boiling heat transfer. 2018 , 73, 553-564		4
220	Current trends in surface tension and wetting behavior of nanofluids. 2018 , 94, 931-944		85
219	A Study on Thermal Conductivity and Stability of Nanofluids Containing Chemically Synthesized Nanoparticles for Advanced Thermal Applications. 2018 , 27, 3994-4004		6
218	Thermo-physical properties of Cu-Zn-Al LDH nanofluid and its application in spray cooling. <i>Applied Thermal Engineering</i> , 2018 , 141, 339-351	5.8	30
217	An experimental investigation of pool boiling characteristics of alumina-water nanofluid over micro-/nanostructured surfaces. 2019 , 40, 1691-1708		9
216	Applications of nanofluids in porous medium. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 1479-1492	4.1	71
215	Experimental investigation toward obtaining a new correlation for viscosity of WO ₃ and Al ₂ O ₃ nanoparticles-loaded nanofluid within aqueous and non-aqueous basefluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 713-728	4.1	35
214	A combined theory model for predicting the viscosity of water-based Newtonian nanofluids containing spherical oxide nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 1311-1321	4.1	7
213	Fundamental Issues, Technology Development, and Challenges of Boiling Heat Transfer, Critical Heat Flux, and Two-Phase Flow Phenomena with Nanofluids. 2019 , 40, 1301-1336		20
212	Developments and future insights of using nanofluids for heat transfer enhancements in thermal systems: a review of recent literature. 2019 , 9, 277-288		25
211	Visualization of pool boiling heat transfer of magnetic nanofluid. 2019 , 48, 2700-2713		17
210	Influence of nanoparticles deposition on surface roughness and heat transfer characteristics of nanofluids A review. 2019 , 331, 012018		1

209	Effects of silica nanoparticles and low concentration on the deterioration of critical heat flux in a pool boiling experiment with a flat-type heater. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 144, 118420	4.9	7
208	An updated review on the influential parameters on thermal conductivity of nano-fluids. <i>Journal of Molecular Liquids</i> , 2019 , 296, 111780	6	101
207	Experimental investigation on the critical heat flux of Cu-water, Al-water nanofluids for precise cooling of electronic systems. 2019 , 561, 012036		1
206	Optimal Start-up Policies for a Nanofluid-Based Solar Thermal Power Plant. 2019 , 58, 19135-19148		6
205	Experimental determination of viscosity of Water-Glycerine based Cu nano-fluids. 2019 , 19, 517-520		2
204	Pool boiling enhancement using vapor channels in microporous surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 143, 118532	4.9	13
203	Experimental Study of Heat Transfer Characteristics of Al ₂ O ₃ and CuO Nanofluids for Machining Application. 2019 , 18, 788-797		14
202	Experimental study of the effect of various surfactants on surface sediment and pool boiling heat transfer coefficient of silica/DI water nano-fluid. 2019 , 356, 391-402		27
201	Synthesis, Characterization and Physicochemical Properties of Cupric Oxide Nanoparticles and their Nanofluids. 2019 , 18, 1176-1184		3
200	Sub Atmospheric Pool Boiling and Experimental Heat Transfer of Alumina Nanofluids. 2019 , 18, 1495-1509		2
199	Experimental Investigation of Effective Viscosity and Density of Nanofluids. 2019 , 16, 504-515		6
198	Performance of SiO ₂ -water nanofluids for single bubble-based nucleate pool boiling heat transfer. 2019 , 138, 612-625		14
197	Buoyancy-induced convection from a pair of heated and cooled horizontal circular cylinders inside an adiabatic tilted cavity filled with alumina/water nanofluids. 2019 , 30, 3163-3181		0
196	Effect of different surfactants on the pool boiling heat transfer of SiO ₂ /deionized water nanofluid on a copper surface. 2019 , 145, 105977		38
195	The preparation of surfactant-free highly dispersed ethylene glycol-based aluminum nitride-carbon nanofluids for heat transfer application. 2019 , 30, 2032-2041		12
194	Numerical simulation of the effect of using nanofluid in phase change process of cooling fluid. 2019 , 30, 2913-2934		5
193	Providing a model for Csf according to pool boiling convection heat transfer of water/ferrous oxide nanofluid using sensitivity analysis. 2019 , 30, 2867-2881		25
192	A brief review on factors affecting flow and pool boiling. 2019 , 112, 607-625		18

191	Thermal and hydraulic performance of a heat exchanger working with carbon-water nanofluid. 2019 , 55, 3443-3453		6
190	Impact of an effective Prandtl number model and across mass transport phenomenon on the Al ₂ O ₃ nanofluid flow inside a channel. 2019 , 526, 121083		11
189	Experimental study on stability and rheological behaviour of hybrid Al ₂ O ₃ -TiO ₂ Therminol-55 nanofluids for concentrating solar collectors. 2019 , 352, 436-444		52
188	Natural convection heat transfer utilizing nanofluid in a cavity with a periodic side-wall temperature in the presence of a magnetic field. 2019 , 104, 127-135		22
187	Mass transfer performance enhancement by nanoabsorbents during CO ₂ absorption process. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 137, 1-11	4.9	10
186	Sensible energy storage options for concentrating solar power plants operating above 600 °C. 2019 , 107, 319-337		55
185	Synergetic effects of nanoparticle concentration and electrification on the breakup performance of nanofluid fuel. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 137, 940-950	4.9	7
184	Hybrid GMDH-type neural network to predict fluid surface tension, shear stress, dynamic viscosity & sensitivity analysis based on empirical data of iron(II) oxide nanoparticles in light crude oil mixture. 2019 , 526, 120948		15
183	Evaluation of Heat Transfer Mechanisms in Heat Pipe Charged with Nanofluid. 2019 , 44, 5195-5213		7
182	Effect of nanofluid formation methods on behaviors of boiling bubbles. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 135, 1312-1318	4.9	14
181	Analysis of Unsteady Magneto Hydro Dynamic (MHD) Nano Fluid Flow Past A Sliced Sphere. 2019 , 494, 012033		2
180	Nanoparticle transport phenomena in confined flows. 2019 , 51, 55-129		6
179	Experimental and Mechanism Investigation on Boiling Heat Transfer Characteristics of Alumina/Water Nanofluid on a Cylindrical Tube. 2019 , 14, 1950124		0
178	A Review of Modern Methods for Enhancing Nucleate Boiling Heat Transfer. 2019 , 66, 881-915		17
177	Role of stabilizers on agglomeration of debris during micro-electrical discharge machining. 2019 , 23, 339-367		7
176	X-ray imaging analysis on behaviors of boiling bubbles in nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 128, 443-449	4.9	6
175	Transparent open-box learning network provides auditable predictions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 136, 1395-1414	4.1	10
174	Prediction of Al ₂ O ₃ water nanofluids pool boiling heat transfer coefficient at low heat fluxes by using response surface methodology. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 137, 1069-1082	4.1	10

173	Effect of surfactant on thermo-physical properties and spray cooling heat transfer performance of Cu-Zn-Al LDH nanofluid. 2019 , 168, 43-55		26
172	Experimental investigation of nanoparticles concentration, boiler temperature and flow rate on flow boiling of zinc bromide and acetone solution in a rectangular duct. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 130, 710-721	4.9	15
171	Heat transfer and pressure drop characteristics of MgO nanofluid in a double pipe heat exchanger. 2019 , 55, 1769-1781		22
170	Heat transfer enhancement in a loop thermosyphon using nanoparticles/water nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 132, 557-564	4.9	20
169	Synthesis, characterization, measurement and modeling thermal conductivity and viscosity of nanofluids containing S,N-GQDs in water, ethylene glycol and their mixtures. 2019 , 55, 1081-1093		4
168	Thermophysical Properties of Nanofluids. 2019 , 113-196		2
167	A Demonstrative Study on the Two-phase vs. Single-phase Modeling of Buoyancy-driven Flows of Enclosed Nanofluids. 2019 , 40, 1-15		5
166	Experimental investigation of graphene nanoplatelets based minimum quantity lubrication in grinding Inconel 718. 2019 , 233, 400-410		30
165	Nucleate Pool Boiling Heat Transfer of Hydro-Fluorocarbon Refrigerant R134a on TiO ₂ Nanoparticle Coated Copper Heating Surfaces. 2019 , 40, 997-1006		9
164	Numerical study of slug flow heat transfer in microchannels. 2020 , 147, 106118		7
163	Additives for Gases and Liquids. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2020 , 79-118	0.4	
162	Prediction of pool boiling heat transfer coefficient for various nano-refrigerants utilizing artificial neural networks. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 139, 3757-3768	4.1	14
161	. 2020 , 8, 58227-58249		17
160	Transient numerical analysis of thermophoresis and particle dynamics in a nanofluid pool boiling conditions. <i>Journal of Molecular Liquids</i> , 2020 , 301, 112459	6	2
159	Modelling the stability of Marangoni convection in a layer of nanofluid. 2020 , 151, 106228		8
158	. 2020 , 8, 4640-4667		4
157	Thermal analysis of a microchannel heat sink cooled by two-phase flow boiling of Al ₂ O ₃ HFE-7100 nanofluid. <i>Thermal Science and Engineering Progress</i> , 2020 , 20, 100693	3.6	7
156	TiO ₂ -SiO ₂ nanofluid characterization: Towards efficient with water/ethylene glycol mixture for solar application. 2020 , 863, 012055		6

155	Light-induced enhancement of critical heat flux on TiO ₂ coatings with specific surface topology. <i>Applied Thermal Engineering</i> , 2020 , 174, 115333	5.8	4
154	Developing free-volume models for nanofluid viscosity modeling. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 1	4.1	
153	Recent Advances in the Critical Heat Flux Amelioration of Pool Boiling Surfaces Using Metal Oxide Nanoparticle Deposition. <i>Energies</i> , 2020 , 13, 4026	3.1	13
152	Thermal behaviour of the flow boiling of a complex nanofluid in a rectangular channel: An experimental and numerical study. 2020 , 117, 104773		6
151	Dynamic Viscosity of Graphene- and Ferrous Oxide-Based Nanofluids: Modeling and Experiment. 2020 ,		1
150	A review on nanofluid: preparation, stability, thermophysical properties, heat transfer characteristics and application. 2020 , 2, 1		28
149	Transient pool boiling and particulate deposition of copper oxide nano-suspensions. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 155, 119743	4.9	48
148	Experimental investigation and mechanism analysis: Effect of nanoparticle size on viscosity of nanofluids. <i>Journal of Molecular Liquids</i> , 2020 , 314, 113604	6	13
147	Numerical investigation of flow boiling of refrigerant-based nanofluids and proposing correlations for heat transfer. 2020 , 234, 386-393		0
146	Importance of interfacial and rheological properties in the suppression of uniform deposition to coffee ring pattern of zinc oxide nanofluids in the presence of anionic surfactants. 2020 , 298, 587-594		3
145	Semi-Analytical Correlation for Pool Boiling Heat Transfer Using Nanofluids Based on Fractal Theory. 2020 , 774, 012061		1
144	A mechanism of heat transfer enhancement or deterioration of nanofluid flow boiling. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 158, 119985	4.9	14
143	Heat transfer enhancement in a thermosyphon using TiO ₂ nanofluid through natural convection. 2020 , 1-18		9
142	Metal oxide nanofluids in electronic cooling: a review. 2020 , 31, 4381-4398		25
141	CO ₂ capturing evaluation of single-step silica nanofluid through rheological investigation for nanofluid use in carbon utilization applications. <i>Journal of Molecular Liquids</i> , 2020 , 304, 112765	6	20
140	Pool Boiling Heat Transfer from Aluminum Alloy Circular Surface Using Al ₂ O ₃ and CuO Water Based Nano-fluids. 2020 , 64, 283-292		1
139	Direct and indirect thermal applications of hydrodynamic and acoustic cavitation: A review. <i>Applied Thermal Engineering</i> , 2020 , 171, 115065	5.8	32
138	A generalized findings on thermal radiation and heat generation/absorption in nanofluid flow regime. 2020 , 553, 124026		30

137	Experimental Investigation on Pool Boiling Heat Transfer Performance Using Tungsten Oxide WO Nanomaterial-Based Water Nanofluids. 2020 , 13,		9
136	Nanofluids for Power Engineering: The Mechanism of the Influence of Dispersing Agents on the Thermal Parameters and Crisis Phenomena during Boiling. 2020 , 65, 163-173		1
135	Potentials of boiling heat transfer in advanced thermal energy systems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 1833-1854	4.1	5
134	Highly efficient energy harvest via external rotating magnetic field for oil based nanofluid direct absorption solar collector. 2021 , 6, 298-307		4
133	Enhancement of thermal conductivity in a plate heat exchanger by using nanoparticles CNT, Al ₂ O ₃ , surfactant with de-ionised water as a coolant. 2021 , 42, 648-651		1
132	CFD simulation of thermal hydraulic phenomena in enclosed cavity of nuclear power plants. 2021 , 151, 107953		0
131	Rheological analysis and EOR potential of surfactant treated single-step silica nanofluid at high temperature and salinity. 2021 , 196, 107704		30
130	Pool boiling performance of aqueous Al ₂ O ₃ and TiO ₂ nanofluids on a horizontally placed flat polished surface: an experimental investigation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 146, 415-433	4.1	5
129	Review of nanoscale boiling enhancement techniques and proposed systematic testing strategy to ensure cooling reliability and repeatability. <i>Applied Thermal Engineering</i> , 2021 , 184, 115982	5.8	11
128	Assessment of nanofluids pool boiling critical heat flux. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 164, 120403	4.9	4
127	Influence of magnetic field on boiling heat transfer coefficient of a magnetic nanofluid consisting of cobalt oxide and deionized water in nucleate regime: An experimental study. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 165, 120669	4.9	9
126	Surface qualitative analysis and ANN modelling for pool boiling heat transfer using Al ₂ O ₃ -water based nanofluids. 2021 , 610, 125926		9
125	Temperature-dependent rheological behavior of nanofluids rich in carbon-based nanoparticles. <i>Journal of Molecular Liquids</i> , 2021 , 325, 114659	6	4
124	Insights into the rheological behavior of ethanol-based metal oxide nanofluids. <i>Journal of Molecular Liquids</i> , 2021 , 323, 115006	6	3
123	Semiconductor nanotubes enhance boiling heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 164, 120597	4.9	3
122	LBM investigation of a Cu-water nanofluid over various configurations of pipes in the mixed convection flow. <i>Heat Transfer</i> , 2021 , 50, 1056-1072	3.1	0
121	A review on the application of the nanofluids. <i>Heat Transfer</i> , 2021 , 50, 1113-1155	3.1	6
120	Experimental Research on Heat Transfer Performance in MQL Grinding With Different Nanofluids. 2021 , 1031-1051		

119	Theoretical investigation of a single vapor bubble during Al ₂ O ₃ /H ₂ O nanofluids in power-law fluid affected by a variable surface tension. 2021 , 96, 035222	6
118	Thermophysical properties of nanofluids. 2021 , 101-166	0
117	Glycerol in energy transportation: a state-of-the-art review.	5
116	Experimental investigation on pool boiling for downward facing heating with different concentrations of Al ₂ O ₃ nanofluids. 2021 , 86, 96-105	0
115	Effect of concentration and sedimentation on boiling heat transfer coefficient of GNPs-SiO ₂ /deionized water hybrid Nanofluid: An experimental investigation. 2021 , 122, 105141	8
114	Heat Transfer Enhancement of Small-Diameter Two-Phase Closed Thermosyphon Using Cellulose Nanofiber and Hydrophilic Surface Modification. <i>Nanomaterials</i> , 2021 , 11,	5-4 0
113	Modeling nanofluid droplet impingement on a superheated surface. 2021 , 381, 68-81	
112	Wall boiling of Al ₂ O ₃ -water nanofluid: Effect of nanoparticle concentration. 2021 , 133, 103614	6
111	A novel comparative analysis between the experimental and numeric methods on viscosity of zirconium oxide nanofluid: Developing optimal artificial neural network and new mathematical model. 2021 , 381, 338-351	29
110	Amelioration of pool boiling thermal performance in case of using a new hybrid nanofluid. 2021 , 24, 100872	12
109	A Review on Electronics Cooling using Nanofluids. 2021 , 1130, 012007	1
108	On the Characteristics of Cold Spray Technology and Its Application in Aerospace Industries. 2021 , 719, 032023	3
107	Influence of Nanoparticles on the Evaporation of a Nanodroplet from Solid Substrates: An Experimental and Molecular Dynamics Investigation. 2021 , 615, 126227	2
106	Nanofluid Boiling on Micro/Nano-engineered Surfaces. 2021 , 37, 6107-6114	0
105	Thermocapillary Convection Flow and Heat Transfer Characteristics of Graphene Nanoplatelet Based Nanofluid Under Microgravity. 2021 , 33, 1	3
104	Enhancement in pool boiling heat transfer of ethanol and nanofluid on novel supersonic nanoblown nanofiber textured surface. 1-17	3
103	Cold start analysis of an engine coolant-MWCNT nanofluid: Synthesis and viscosity behavior under shear stress. 095440702110192	
102	Experimental investigation for stability and surface properties of TiO ₂ and Al ₂ O ₃ water-based nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1 2

101	Progress on suspended nanostructured engineering materials powered solar distillation- a review. 2021 , 143, 110848		18
100	Influence of Liquid Height on Bubble Coalescence, Vapor Venting, Liquid Return, and Heat Transfer in Pool Boiling. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 173, 121261	4.9	2
99	A numerical study of the natural convection of Al ₂ O ₃ -EG nanofluid in a square enclosure and impacts and a comparison of various viscosity and thermal conductivity models. 2021 , 5, 247-259		1
98	Experimental investigation into spray cooling heat transfer performance of Al ₂ O ₃ -water nanofluid with different subcooling degrees. 095440892110378		2
97	Nanofluid application for heat transfer, safety, and natural circulation enhancement in the NuScale nuclear reactor as a small modular reactor using computational fluid dynamic (CFD) modeling via neutronic and thermal-hydraulics coupling. 2021 , 138, 103796		8
96	Angle of inclination and radiation intensity variation effects on the flat plate solar collector performance using graphene oxide (GO)-water nanofluid. 2021 , 847, 012024		
95	Impact of micro-fins on a heated cylinder submerged in a nanofluid saturated medium. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 177, 121551	4.9	1
94	Insight into the mechanism of nanoparticle induced suppression of interfacial tension. <i>Journal of Molecular Liquids</i> , 2021 , 339, 117177	6	1
93	A comprehensive review of thermophysical properties and prospects of ionanocolloids in thermal energy applications. 2021 , 151, 111593		3
92	The empirical characteristics on transient nature of Al ₂ O ₃ -water nanofluid pool boiling. <i>Applied Thermal Engineering</i> , 2021 , 199, 117617	5.8	1
91	Synthesis of graphene oxide nanofluid based micro-nano scale surfaces for high-performance nucleate boiling thermal management systems. 2021 , 28, 101436		3
90	On the effect of corrugated conical frustum on pool boiling heat transfer. 2022 , 130, 110494		1
89	Conjugate heat and mass transfer in nanofluids. 2022 , 189-215		
88	Thermophysical properties of nanofluids. 2022 , 39-96		0
87	Mass transfer modeling in nanofluids: theoretical basics and model development. 2022 , 247-271		
86	Recent developments in preparation of nanofluid for heat transfer enhancement in heat exchangers: A review. 2021 , 44, 2356-2361		6
85	Viscosity. 2014 , 117-161		1
84	Nano-enhanced biolubricant in sustainable manufacturing: From processability to mechanisms.		36

83	Laminar Forced Convection of Nanofluids in a Circular Tube: A New Nonhomogeneous Flow Model. 2020 , 142,	2
82	Experimental Studies of Natural Convection Heat Transfer of Al ₂ O ₃ /DI Water Nanoparticle Suspensions (Nanofluids). 2010 , 2, 742739	62
81	Nanotechnology and Performance Development of Cutting Fluids: The Enhanced Heat Transfer Capabilities of Nanofluids. 2017 , 103-148	1
80	The Role of Nanoparticle Suspensions in Thermo/Fluid and Biomedical Applications. 2012 , 25-68	2
79	Properties of Nanofluid. 2015 , 1-44	1
78	Nucleate Pool Boiling Heat Transfer Correlation for TiO ₂ -Water Nanofluids. 2012 , 9, 104409	10
77	Flow Visualization, Critical Heat Flux Enhancement, and Transient Characteristics in Pool Boiling Using Nanofluids. 2012 , 9, 104443	1
76	Nucleate Pool Boiling Heat Transfer Correlation for TiO ₂ -Water Nanofluids. 2012 , 171-188	2
75	A review on nanofluids - part I: theoretical and numerical investigations. 2008 , 25, 613-630	376
74	A review on nanofluids - part II: experiments and applications. 2008 , 25, 631-648	309
73	Review on using nanofluids for heat transfer enhancement in nuclear power plants. 2018 , 83, 426-438	1
72	Thermal Conductivity of Nanofluids-A Comprehensive Review. 2020 , 7,	4
71	Fluid Flow Characteristics of Al ₂ O ₃ Nanoparticles Suspended in Water. 2006 , 30, 546-552	2
70	Modeling a General Equation for Pool Boiling Heat Transfer. 2013 , 03, 294-303	5
69	EFFECT OF SOLUBLE ADDITIVES, BORIC ACID (H ₃ BO ₃) AND SALT (NaCl), IN POOL BOILING HEAT TRANSFER. 2011 , 43, 195-204	4
68	NANOTECHNOLOGY FOR ADVANCED NUCLEAR THERMAL-HYDRAULICS AND SAFETY: BOILING AND CONDENSATION. 2011 , 43, 217-242	44
67	Analysis of convection heat transfer mechanism in nanofluids. 2012 , 61, 154401	14
66	Thermophysical Properties of Nanofluids. 2021 , 17, 694-727	

- 65 Review of pool and flow boiling heat transfer enhancement through surface modification. *International Journal of Heat and Mass Transfer*, **2021**, 181, 122020 4.9 9
- 64 Thermal Conductivities of Nanofluids. **2004**, 28, 968-975 2
- 63 Cooling System with Nanofluidic Loop Thermosyphon. **2006**, 30, 246-254
- 62 Dispersion Technique of Alumina Nanoparticles in Transformer Oil. **2006**, 19, 233-239
- 61 Experimental Investigations on Pool Boiling CHE of Nano-Fluids. **2007**, 31, 949-956
- 60 Experimental Investigation of CHF Enhancement on the Modified Surface Under Pool Boiling. **2009**, 33, 840-848
- 59 Flow Visualization, Critical Heat Flux Enhancement, and Transient Characteristics in Pool Boiling Using Nanofluids. **2012**, 42-63
- 58 Natural Convection in Nanofluids. **2012**, 277-318
- 57 Convection and Boiling. **2014**, 227-277
- 56 Nanofluids as Quenchants in Industrial Heat Treatment. **2014**, 324-336 0
- 55 Numerical Simulation of Heat Transfer to TiO₂-Water Nanofluid Flow in a Double-Tube Counter Flow Heat Exchanger. **2015**, 413-422
- 54 Introduction. *Springer Theses*, **2016**, 1-22 0.1
- 53 MİKRO BOYUTTA YAPILANDIRILMI BİR YÜZEYDE HAVUZ KAYNAMA ISI TRANSFERİNİN DENEYSEL İNCELENMESİ. *Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi*, **2017**, 6, 213-219
- 52 Prediction of Critical Heat Flux In Pool Boiling Using Nanofluids. *I-manager's Journal on Future Engineering and Technology*, **2017**, 12, 35 0.6
- 51 THE MECHANISM OF RAISING AND QUANTIFICATION OF SPECIFIC HEAT FLUX AT BOILING OF NANOFUIDS IN FREE CONVECTION CONDITIONS. *Energy Technologies & Resource Saving*, **2017**, 25-34 1
- 50 Modeling Type-1 Singleton Fuzzy Logic Systems Using Statistical Parameters in Foundry Temperature Control Application. *Smart and Sustainable Manufacturing Systems*, **2018**, 2, 20180031 0.8
- 49 R141b/PTFE-iO₂ Nanofluidlerin Soğutma Performanslarının İncelenmesi. *Tehnika I Tehnologija*, **2018**, 54, 50-57 0
- 48 Pool Boiling Enhancement Techniques. *Springer Briefs in Applied Sciences and Technology*, **2020**, 5-41 0.4

47	The effect of sedimentation phenomenon of the additives silver nano particles on water pool boiling heat transfer coefficient: A comprehensive experimental study. <i>Journal of Molecular Liquids</i> , 2022 , 345, 117891	6	0
46	Experimental Research on Heat Transfer Performance in MQL Grinding With Different Nanofluids. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2020 , 182-202	0.2	
45	Application of Nanomaterials: Overview and Historical Perspectives. 2020 , 45-63		
44	Enhancement of heat transfer for boiling in nanofluid. <i>Journal of Physics: Conference Series</i> , 2021 , 2039, 012030	0.3	
43	On the mechanisms leading to ordered nanoparticles deposition during single bubble nucleate pool boiling regime. <i>Physics of Fluids</i> , 2021 , 33, 113306	4.4	2
42	Mitigation of cavitation erosion using laser-induced periodic surface structures. <i>Surfaces and Interfaces</i> , 2022 , 29, 101692	4.1	2
41	A revised model for the effect of nanoparticle mass flux on the thermal instability of a nanofluid layer. <i>Demonstratio Mathematica</i> , 2021 , 54, 488-499	1.6	1
40	Experimental Study of Halloysite Nanofluids in Pool Boiling Heat Transfer.. <i>Molecules</i> , 2022 , 27,	4.8	2
39	The Impact of Alumina Nanofluids on Pool Boiling Performance on Biphilic Surfaces for Cooling Applications. <i>Energies</i> , 2022 , 15, 372	3.1	0
38	Energy storage on demand: Thermal energy storage development, materials, design, and integration challenges. <i>Energy Storage Materials</i> , 2022 , 46, 192-222	19.4	6
37	Entropy generation and chemical reaction effects on MHD non-Newtonian nanofluid flow in a sinusoidal channel. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2022 , 1-21	0.4	0
36	Parametric Effects On Pool Boiling Heat Transfer and Critical Heat Flux: A Critical Review. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2022 ,	2	
35	A survey study of the correlations developed for single-phase heat transfer and pressure drop using nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> ,	4.1	
34	A comprehensive review on the pre-research of nanofluids in absorption refrigeration systems. <i>Energy Reports</i> , 2022 , 8, 3437-3464	4.6	0
33	A polymeric suspension of amine functionalized silica nanoparticles derived from Moonj grass for the carbon capture and storage applications. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 1-15	2.2	1
32	Impact of volume fraction and fluid layer thickness on heat transfer effectiveness of water-based nanofluids. <i>Heat Transfer</i> , 2022 , 51, 2628-2644	3.1	
31	Numerical investigation of surface roughness effect on pool boiling heat transfer of Al ₂ O ₃ /water nanofluid. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022 , 236, 1535-1549	1.3	2
30	Numerical Simulation on the Boiling Flow Patterns of Al ₂ O ₃ -Water Nanofluid in Micro/Minichannel under Different Hypergravity Levels and Directions. <i>International Journal of Aerospace Engineering</i> , 2021 , 2021, 1-12	0.9	0

29	A review on techniques to alter the bubble dynamics in pool boiling. <i>Applied Thermal Engineering</i> , 2022 , 214, 118805	5.8	4
28	The chronological study on parametric evolution of pool boiling with nanofluids: An experimental review. <i>Thermal Science and Engineering Progress</i> , 2022 , 101420	3.6	
27	A Review of the Advances and Challenges in Measuring the Thermal Conductivity of Nanofluids. <i>Nanomaterials</i> , 2022 , 12, 2526	5.4	0
26	Review of surface modification in pool boiling application: Coating manufacturing process and heat transfer enhancement mechanism. <i>Applied Thermal Engineering</i> , 2022 , 215, 119041	5.8	0
25	References. 2022 , 27-32		
24	Effect of particle loading and temperature on the rheological behavior of Al ₂ O ₃ and TiO ₂ nanofluids. 2022 , 44, 7062-7079		2
23	Nano-engineered pathways for advanced thermal energy storage systems. 2022 , 3, 101007		1
22	Double-Diffusive Effects on the Onset of Rayleigh-Benard Convection of Water-Based Nanofluids. 2022 , 12, 8485		1
21	Numerical Analysis of Pool Boiling of Nanofluids for High Heat Dissipation Applications. 2022 , 12, 1293-1301		
20	Entrainment in multifluid systems, and rotation induced occurrences. 2022 , 96, 156-172		2
19	Preparation, Characterization, Stability and Thermophysical Properties of Bio, Non-Bio (Metallic and Non-Metallic) and Hybrids Nanofluids: A Review. 2022 , 11, 803-818		
18	Thermophysical and transient heat transfer characteristics of aqueous SiO ₂ nanofluid in energy management applications. 095440892211284		0
17	Surface tension of nanoparticle dispersions unravelled by size-dependent non-occupied sites free energy versus adsorption kinetics. 2022 , 8,		0
16	Chapter 3. Nanofluids Long-term Stability Challenges and Guidelines. 2022 , 71-146		0
15	Chapter 14. Applications of Nanofluids in Solar Thermal Systems. 2022 , 418-436		0
14	Rheological behavior of dilute graphene-water nanofluids using various surfactants: An experimental evaluation. 2023 , 370, 120987		0
13	Investigation on interfacial properties of conventional and functional modified TiO ₂ /water nanofluids. 2023 , 658, 130647		0
12	Chapter 12. Boiling Features and Performances of Nanofluids. 2022 , 366-398		0

- 11 Intrinsic Heat Transfer Enhancement Mechanisms in Boiling with Nanoscale Surface Features. **2022**, 1-54 ○
- 10 The Pool-Boiling-Induced Deposition of Nanoparticles as the Transient Game Changer: A Review. **2022**, 12, 4270 1
- 9 Nanofluids application in machining: a comprehensive review. ○
- 8 Pool boiling heat flux of ammonia refrigerant in the presence of iron oxide nanoparticles: A molecular dynamics approach. **2023**, 151, 387-393 ○
- 7 Influence of alumina nanoparticle concentrations on quenching characteristics of cylindrical Al7075. **2023**, 39, 101687 ○
- 6 Impacts of salt concentration on nucleate pool boiling of NaCl solution. **2023**, 13, 035005 ○
- 5 Gradient Heatmetry in Study of Heat Transfer during Pool Boiling of Subcooled Water and Liquid with the Addition of Al₂O₃ Microparticles. **2023**, 70, 194-202 ○
- 4 Nano materials employed in solar distillation device: A mini review. **2023**, ○
- 3 Nanotechnology for Heat Transfer. **2023**, 71-97 ○
- 2 Enhancement of evaporation rate in subcooled nucleate pool boiling with suspended hydrophilic particles. **2023**, 18, 100357 ○
- 1 Analysis of Heat Flux Quenching of a Cylindrical Rod Using Oxide Based Nanofluids. **2023**, 333-338 ○