

Umar Khan

List of Publications by Year in Descending Order

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

194
papers

22,194
citations

46
h-index

148
g-index

208
ext. papers

24,312
ext. citations

5.2
avg, IF

6.88
L-index

#	Paper	IF	Citations
194	Impact of freezing temperature (T) of AlO and molecular diameter (HO) on thermal enhancement in magnetized and radiative nanofluid with mixed convection.. <i>Scientific Reports</i> , 2022 , 12, 703	4.9	3
193	Heat transfer analysis and entropy generation in the nanofluids composed by Aluminum and Al Aluminum oxides nanoparticles. <i>Case Studies in Thermal Engineering</i> , 2022 , 31, 101812	5.6	1
192	Highly Conductive Networks of Silver Nanosheets.. <i>Small</i> , 2022 , e2105996	11	2
191	Numerical investigation of heat transfer in the nanofluids under the impact of length and radius of carbon nanotubes. <i>Open Physics</i> , 2022 , 20, 416-430	1.3	
190	The Velocity Slip Boundary Condition Effects on Non-Newtonian Ferrofluid over a Stretching Sheet. <i>Mathematical Problems in Engineering</i> , 2022 , 2022, 1-20	1.1	0
189	The Modified Heat Flux Modeling in Nanoparticles (Fe ₃ O ₄ and Aggregation Nanoparticle) Based Fluid between Two Rotating Disks. <i>Energies</i> , 2022 , 15, 4088	3.1	1
188	Intensification of thermal stratification on dissipative chemically heating fluid with cross-diffusion and magnetic field over a wedge. <i>Open Physics</i> , 2021 , 19, 877-888	1.3	0
187	The Dynamics of H ₂ O Suspended by Multiple Shaped Cu Nanoadditives in Rotating System. <i>Journal of Nanomaterials</i> , 2021 , 2021, 1-11	3.2	3
186	Corrigendum to [Influence of thermal radiation and viscous dissipation on squeezed flow of water between Riga plates saturated with carbon nanotubes][Colloids Surf. A Physicochem. Eng. Asp. 522, 389-398]. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 630, 127596	5.1	
185	A Study of New Class of Star-Like Functions Associated by Symmetric p, q-Calculus. <i>Journal of Mathematics</i> , 2021 , 2021, 1-8	1.2	1
184	Thermal transport investigation in AA7072 and AA7075 aluminum alloys nanomaterials based radiative nanofluids by considering the multiple physical flow conditions. <i>Scientific Reports</i> , 2021 , 11, 9837	4.9	6
183	Enhanced heat transfer in H ₂ O inspired by Al ₂ O ₃ and Al ₂ O ₃ nanomaterials and effective nanofluid models. <i>Advances in Mechanical Engineering</i> , 2021 , 13, 168781402110236	1.2	1
182	The Numerical Investigation of the Heat Transport in the Nanofluids under the Impacts of Magnetic Field: Applications in Industrial Zone. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-11	1.1	1
181	On mathematical model of HIV CD4+T-cells. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 60, 995-1000	6.1	1
180	Thermal improvement in magnetized nanofluid for multiple shapes nanoparticles over radiative rotating disk. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 61, 2318-2318	6.1	9
179	Impacts of various shaped Cu-nanomaterial on the heat transfer over a bilateral stretchable surface: Numerical investigation. <i>Advances in Mechanical Engineering</i> , 2021 , 13, 168781402110674	1.2	0
178	Applied Mathematical Modelling and Heat Transport Investigation in Hybrid Nanofluids under the Impact of Thermal Radiation: Numerical Analysis. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-10	1.1	0

177	An advanced version of a conformable mathematical model of Ebola virus disease in Africa. <i>AEJ - Alexandria Engineering Journal</i> , 2020 , 59, 3261-3268	6.1	9
176	A Novel Investigation and Hidden Effects of MHD and Thermal Radiations in Viscous Dissipative Nanofluid Flow Models. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	3
175	Impacts of Freezing Temperature Based Thermal Conductivity on the Heat Transfer Gradient in Nanofluids: Applications for a Curved Riga Surface. <i>Molecules</i> , 2020 , 25,	4.8	6
174	Optical Solutions of Schrödinger Equation Using Extended Sinh-Gordon Equation Expansion Method. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	3
173	Thermal Transport in Nonlinear Unsteady Colloidal Model by Considering the Carbon Nanomaterials Length and Radius. <i>Energies</i> , 2020 , 13, 2448	3.1	2
172	Thermal Transport Investigation in Magneto-Radiative GO-MoS/HO-CHO Hybrid Nanofluid Subject to Cattaneo-Christov Model. <i>Molecules</i> , 2020 , 25,	4.8	12
171	On Mixed Convection Squeezing Flow of Nanofluids. <i>Energies</i> , 2020 , 13, 3138	3.1	5
170	Investigation of Thermal Transport in Multi-Shaped Cu Nanomaterial-Based Nanofluids. <i>Materials</i> , 2020 , 13,	3.5	9
169	A Novel Hybrid Model for CuAl ₂ O ₃ /H ₂ O Nanofluid Flow and Heat Transfer in Convergent/Divergent Channels. <i>Energies</i> , 2020 , 13, 1686	3.1	10
168	Nanofluid Thermal Transport between Parallel Plates Suspended by Micro-Cantilever Sensor by Incorporating the Effective Prandtl Model: Applications to Biological and Medical Sciences. <i>Molecules</i> , 2020 , 25,	4.8	9
167	Radiative Colloidal Investigation for Thermal Transport by Incorporating the Impacts of Nanomaterial and Molecular Diameters (d, d): Applications in Multiple Engineering Systems. <i>Molecules</i> , 2020 , 25,	4.8	6
166	Heat and mass transport investigation in radiative and chemically reacting fluid over a differentially heated surface and internal heating. <i>Open Physics</i> , 2020 , 18, 842-852	1.3	6
165	Zero Mass Flux Effects on Time Dependent Flow of an Eyring Powell with Activation Energy. <i>Journal of Nanofluids</i> , 2020 , 9, 216-229	2.2	1
164	Modified heat transfer flow model for SWCNTs-H ₂ O and MWCNTs-H ₂ O over a curved stretchable semi infinite region with thermal jump and velocity slip: A numerical simulation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 545, 123431	3.3	13
163	Novel exact double periodic Soliton solutions to strain wave equation in micro structured solids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 550, 124077	3.3	2
162	Numerical examination for nanomaterial forced convection within a permeable cavity involving magnetic forces. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 550, 123962	3.3	6
161	Low cost, high performance ultrafiltration membranes from glass fiber-PTFE-graphene composites. <i>Scientific Reports</i> , 2020 , 10, 21123	4.9	5
160	Hidden phenomena of MHD on 3D squeezed flow of radiative-H ₂ O suspended by aluminum alloys nanoparticles. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	6

159	Surface thermal investigation in water functionalized Al ₂ O ₃ and Al ₂ O ₃ nanomaterials-based nanofluid over a sensor surface. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 1	3.3	3
158	Heat transfer enhancement in H ₂ O suspended by aluminium alloy nanoparticles over a convective stretching surface. <i>Advances in Mechanical Engineering</i> , 2020 , 12, 168781402094234	1.2	4
157	Numerical Investigation of Heat and Mass Transport in the Flow over a Magnetized Wedge by Incorporating the Effects of Cross-Diffusion Gradients: Applications in Multiple Engineering Systems. <i>Mathematical Problems in Engineering</i> , 2020 , 2020, 1-10	1.1	5
156	On stability of improved conformable model for studying the dynamics of a malnutrition community. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 537, 122664	3.3	2
155	A conformable mathematical model for alcohol consumption in Spain. <i>International Journal of Biomathematics</i> , 2019 , 12, 1950057	1.8	4
154	Applications of Nanofluids for the Thermal Enhancement in Radiative and Dissipative Flow over a Wedge. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1976	2.6	8
153	Modified MHD Radiative Mixed Convective Nanofluid Flow Model with Consideration of the Impact of Freezing Temperature and Molecular Diameter. <i>Symmetry</i> , 2019 , 11, 833	2.7	7
152	Heat transfer intensification in hydromagnetic and radiative 3D unsteady flow regimes: A comparative theoretical investigation for aluminum and Aluminum oxides nanoparticles. <i>Journal of Central South University</i> , 2019 , 26, 1233-1249	2.1	9
151	Impact of an effective Prandtl number model and across mass transport phenomenon on the Al ₂ O ₃ nanofluid flow inside a channel. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 526, 121083	3.3	11
150	Auxiliary equation method for ill-posed Boussinesq equation. <i>Physica Scripta</i> , 2019 , 94, 085213	2.6	9
149	Some new solutions of the Caudrey-Dodd-Gibbon (CDG) equation using the conformable derivative. <i>Advances in Difference Equations</i> , 2019 , 2019,	3.6	7
148	Stimulations of Thermophysical Characteristics of Nano-Diamond and Silver Nanoparticles for Nonlinear Radiative Curved Surface Flow. <i>IEEE Access</i> , 2019 , 7, 55509-55517	3.5	6
147	A novel coupling of (CNT-Fe ₃ O ₄ /H ₂ O) hybrid nanofluid for improvements in heat transfer for flow in an asymmetric channel with dilating/squeezing walls. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 136, 186-195	4.9	47
146	Heat Transfer Enhancement by Coupling of Carbon Nanotubes and SiO ₂ Nanofluids: A Numerical Approach. <i>Processes</i> , 2019 , 7, 937	2.9	9
145	Nonlinear Thermal Radiation and Chemical Reaction Effects on a (CuO)/NaAlg Hybrid Nanofluid Flow Past a Stretching Curved Surface. <i>Processes</i> , 2019 , 7, 962	2.9	15
144	Spherical Shaped (Ag/Fe ₃ O ₄ /H ₂ O) Hybrid Nanofluid. <i>Energies</i> , 2019 , 12, 76	3.1	16
143	Modified Chebyshev Wavelet-Picard Technique for Thin Film Flow of Non-Newtonian Fluid Down an Inclined Plane. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2019 , 89, 533-538	0.9	
142	Some exact solutions of the nonlinear space-time fractional differential equations. <i>Waves in Random and Complex Media</i> , 2019 , 29, 645-664	1.9	13

141	Improved $\tan\left(\left(\frac{\phi\left(\vec{x}\right)}{2}\right)\right)$ -expansion method for (2 + 1)-dimensional KPBBM wave equation. <i>Optical and Quantum Electronics</i> , 2018 , 50, 1	2.4	5
140	Graphene-coated polymer foams as tuneable impact sensors. <i>Nanoscale</i> , 2018 , 10, 5366-5375	7.7	36
139	Flow of ferro-magnetic nanoparticles in a rotating system: a numerical investigation of particle shapes. <i>Indian Journal of Physics</i> , 2018 , 92, 969-977	1.4	5
138	Electroconductive Biohybrid Collagen/Pristine Graphene Composite Biomaterials with Enhanced Biological Activity. <i>Advanced Materials</i> , 2018 , 30, e1706442	24	60
137	Response to Comment on the paper Heat transfer enhancement in hydromagnetic dissipative flow past a moving wedge suspended by H ₂ O-aluminum alloy nanoparticles in the presence of thermal radiation, Umar Khan, Adnan, Naveed Ahmed, Syed Tauseef, Mohyud-Din [Int J Hydrogen Energy 42 (2017) 24634-24644]. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 6478-6479	6.7	
136	Analytical approach to study a mathematical model of CD4 ⁺ T-cells. <i>International Journal of Biomathematics</i> , 2018 , 11, 1850056	1.8	4
135	Some new exact solitary wave solutions of the van der Waals model arising in nature. <i>Results in Physics</i> , 2018 , 9, 648-655	3.7	12
134	A new modification in the exponential rational function method for nonlinear fractional differential equations. <i>European Physical Journal Plus</i> , 2018 , 133, 1	3.1	8
133	A theoretical investigation of unsteady thermally stratified flow of Al ₂ O ₃ -H ₂ O and Al ₂ O ₃ -H ₂ O nanofluids through a thin slit. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 119, 296-308	3.9	11
132	Exact traveling wave solutions of fractional order Boussinesq-like equations by applying Exp-function method. <i>Results in Physics</i> , 2018 , 8, 114-120	3.7	44
131	Exact solutions of perturbed nonlinear Schrödinger equation with Kerr law nonlinearity by improved $\tan\left(\frac{\phi\left(\vec{x}\right)}{2}\right)$ -expansion method. <i>Optical and Quantum Electronics</i> , 2018 , 50, 1	2.4	7
130	A study of heat and mass transfer on magnetohydrodynamic (MHD) flow of nanoparticles. <i>Propulsion and Power Research</i> , 2018 , 7, 72-77	3.6	29
129	Analysis of magnetohydrodynamic flow and heat transfer of Cu-water nanofluid between parallel plates for different shapes of nanoparticles. <i>Neural Computing and Applications</i> , 2018 , 29, 695-703	4.8	40
128	MHD flow of radiative micropolar nanofluid in a porous channel: optimal and numerical solutions. <i>Neural Computing and Applications</i> , 2018 , 29, 793-801	4.8	16
127	A finite element investigation of the flow of a Newtonian fluid in dilating and squeezing porous channel under the influence of nonlinear thermal radiation. <i>Neural Computing and Applications</i> , 2018 , 29, 501-508	4.8	13
126	Thermal radiation effects on flow of Jeffery fluid in converging and diverging stretchable channels. <i>Neural Computing and Applications</i> , 2018 , 30, 2371-2379	4.8	9
125	Influence of shape factor on flow of magneto-nanofluid squeezed between parallel disks. <i>AEJ - Alexandria Engineering Journal</i> , 2018 , 57, 1893-1903	6.1	15
124	Coupling of optimal variation of parameters method with Adomian polynomials for nonlinear equations representing fluid flow in different geometries. <i>Neural Computing and Applications</i> , 2018 , 30, 3431-3444	4.8	1

123	Flow of carbon nanotubes suspended nanofluid in stretchable non-parallel walls. <i>Neural Computing and Applications</i> , 2018 , 30, 2859-2871	4.8	12
122	Variation of parameters method with an auxiliary parameter for initial value problems. <i>Ain Shams Engineering Journal</i> , 2018 , 9, 1959-1963	4.4	2
121	Differential transform method for unsteady nanofluid flow and heat transfer. <i>AEJ - Alexandria Engineering Journal</i> , 2018 , 57, 1867-1875	6.1	34
120	Squeezing flow of MHD fluid between parallel disks. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2018 , 19, 42-47	0.7	3
119	Drag Reduction on a Square Cylinder using Multiple Detached Control Cylinders. <i>KSCE Journal of Civil Engineering</i> , 2018 , 22, 2023-2034	1.9	5
118	Thermal Analysis of Nanofluid Flow over a Curved Stretching Surface Suspended by Carbon Nanotubes with Internal Heat Generation. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 395	2.6	50
117	Eyring-Powell fluid flow through a wall jet in the presence of viscous dissipation. <i>European Physical Journal Plus</i> , 2018 , 133, 1	3.1	2
116	An approach for approximate solution of fractional-order smoking model with relapse class. <i>International Journal of Biomathematics</i> , 2018 , 11, 1850077	1.8	6
115	Thermophysical Analysis of Water Based (CuAl ₂ O ₃) Hybrid Nanofluid in an Asymmetric Channel with Dilating/Squeezing Walls Considering Different Shapes of Nanoparticles. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1549	2.6	41
114	Nonlinear radiation effects on MHD flow of nanofluid over a nonlinearly stretching/shrinking wedge. <i>Neural Computing and Applications</i> , 2017 , 28, 2041-2050	4.8	47
113	Effects on magnetic field in squeezing flow of a Casson fluid between parallel plates. <i>Journal of King Saud University - Science</i> , 2017 , 29, 119-125	3.6	27
112	Heat transfer effects on carbon nanotubes suspended nanofluid flow in a channel with non-parallel walls under the effect of velocity slip boundary condition: a numerical study. <i>Neural Computing and Applications</i> , 2017 , 28, 37-46	4.8	83
111	Heat and mass transfer analysis for MHD flow of nanofluid inconvergent/divergent channels with stretchable walls using Buongiorno's model. <i>Neural Computing and Applications</i> , 2017 , 28, 4079-4092	4.8	34
110	Optimal solutions for a bio mathematical model for the evolution of smoking habit. <i>Results in Physics</i> , 2017 , 7, 510-517	3.7	6
109	Optimal solutions for homogeneous and non-homogeneous equations arising in physics. <i>Results in Physics</i> , 2017 , 7, 216-224	3.7	15
108	Soret and Dufour effects on Jeffery-Hamel flow of second-grade fluid between convergent/divergent channel with stretchable walls. <i>Results in Physics</i> , 2017 , 7, 361-372	3.7	26
107	Optimal variational iteration method for nonlinear problemsPeer review under responsibility of University of Bahrain.View all notes. <i>Journal of the Association of Arab Universities for Basic and Applied Sciences</i> , 2017 , 24, 191-197		7
106	Nonlinear radiation effects on flow of nanofluid over a porous wedge in the presence of magnetic field. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017 , 27, 48-63	4.5	18

105	Influence of thermal radiation and viscous dissipation on squeezed flow of water between Riga plates saturated with carbon nanotubes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 522, 389-398	5.1	54
104	A numerical study of thermo-diffusion, diffusion-thermo and chemical reaction effects on flow of a micropolar fluid in an asymmetric channel with dilating and contracting permeable walls. <i>Engineering Computations</i> , 2017 , 34, 587-602	1.4	8
103	Influence of the shape factor on the flow and heat transfer of a water-based nanofluid in a rotating system. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	7
102	Influence of an effective Prandtl number model on squeezed flow of $\text{Al}_2\text{O}_3\text{-H}_2\text{O}$ and $\text{Al}_2\text{O}_3\text{-C}_2\text{H}_6\text{O}_2$ nanofluids. <i>Journal of Molecular Liquids</i> , 2017 , 238, 447-454	6	34
101	Stokes' first problem for MHD flow of Casson nanofluid. <i>Multidiscipline Modeling in Materials and Structures</i> , 2017 , 13, 2-10	2.2	1
100	A bioconvection model for a squeezing flow of nanofluid between parallel plates in the presence of gyrotactic microorganisms. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	14
99	Optimal solutions for the evolution of a social obesity epidemic model. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	9
98	Influence of viscous dissipation on a copper oxide nanofluid in an oblique channel: Implementation of the KKL model. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	11
97	Optimal variational iteration method using Adomian's polynomials for physical problems on finite and semi-infinite intervals. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	6
96	MHD squeezing flow between two parallel disks with suction or injection via Legendre wavelet-quasilinearization technique. <i>Engineering Computations</i> , 2017 , 34, 892-901	1.4	3
95	MHD nanofluid flow through a deformable asymmetric porous channel. <i>Engineering Computations</i> , 2017 , 34, 852-868	1.4	12
94	Influence of thermal and concentration gradients on unsteady flow over a stretchable surface. <i>Results in Physics</i> , 2017 , 7, 3153-3162	3.7	7
93	A New Modification in Simple Equation Method and its applications on nonlinear equations of physical nature. <i>Results in Physics</i> , 2017 , 7, 4232-4240	3.7	17
92	Particle shape, thermal radiations, viscous dissipation and joule heating effects on flow of magneto-nanofluid in a rotating system. <i>Engineering Computations</i> , 2017 , 34, 2479-2498	1.4	4
91	Exact solutions of (3 + 1)-dimensional generalized KP equation arising in physics. <i>Results in Physics</i> , 2017 , 7, 3901-3909	3.7	28
90	Extracting new solitary wave solutions of Benny-Luke equation and Phi-4 equation of fractional order by using (G'/G)-expansion method. <i>Optical and Quantum Electronics</i> , 2017 , 49, 1	2.4	32
89	Unsteady radiative flow of chemically reacting fluid over a convectively heated stretchable surface with cross-diffusion gradients. <i>International Journal of Thermal Sciences</i> , 2017 , 121, 182-191	4.1	40
88	Non-linear radiative squeezed flow in a rotating frame. <i>Engineering Computations</i> , 2017 , 34, 2450-2462	1.4	1

87	Flow of magneto-nanofluid over a thermally stratified bi-directional stretching sheet in the presence of Ohmic heating. <i>Engineering Computations</i> , 2017 , 34, 2499-2513	1.4	5
86	Shape effects of nanoparticles on the squeezed flow between two Riga plates in the presence of thermal radiation. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	13
85	Flow of a radioactive Casson fluid through a deformable asymmetric porous channel. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017 , 27, 2115-2130	4.5	10
84	3D squeezed flow of $\text{Al}_2\text{O}_3\text{-H}_2\text{O}$ and $\text{Al}_2\text{O}_3\text{-TiO}_2$ nanofluids: A numerical study. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 24620-24633	6.7	30
83	Heat transfer enhancement in hydromagnetic dissipative flow past a moving wedge suspended by 2-aluminum alloy nanoparticles in the presence of thermal radiation. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 24634-24644	6.7	35
82	Khater method for nonlinear Sharma Tasso-Olevers (STO) equation of fractional order. <i>Results in Physics</i> , 2017 , 7, 4440-4450	3.7	30
81	Surface coatings of silver nanowires lead to effective, high conductivity, high-strain, ultrathin sensors. <i>Nanoscale</i> , 2017 , 9, 18507-18515	7.7	36
80	MHD Flow of a Viscous Fluid Between Dilating and Squeezing Porous Walls 2017 , 41, 951-956		3
79	Influence of nonlinear thermal radiation on the viscous flow through a deformable asymmetric porous channel: A numerical study. <i>Journal of Molecular Liquids</i> , 2017 , 225, 167-173	6	23
78	Numerical investigation for three dimensional squeezing flow of nanofluid in a rotating channel with lower stretching wall suspended by carbon nanotubes. <i>Applied Thermal Engineering</i> , 2017 , 113, 1107-1117	5.8	110
77	Exact solutions for STO and (3+1)-dimensional KdV-ZK equations using G ² -expansion method. <i>Results in Physics</i> , 2017 , 7, 4434-4439	3.7	13
76	Influence of Joule Heating and Viscous Dissipation on MHD Flow and Heat Transfer of Viscous Fluid in Converging/Diverging Stretchable Channels. <i>Journal of Nanofluids</i> , 2017 , 6, 254-263	2.2	5
75	Thermo-diffusion and diffusion-thermo effects on flow of second grade fluid between two inclined plane walls. <i>Journal of Molecular Liquids</i> , 2016 , 224, 1074-1082	6	44
74	Numerical investigation of magnetohydrodynamic flow and heat transfer of copper/water nanofluid in a channel with non-parallel walls considering different shapes of nanoparticles. <i>Advances in Mechanical Engineering</i> , 2016 , 8, 168781401663731	1.2	9
73	A comparison of catabolic pathways induced in primary macrophages by pristine single walled carbon nanotubes and pristine graphene. <i>RSC Advances</i> , 2016 , 6, 65299-65310	3.7	12
72	High stiffness nano-composite fibres from polyvinylalcohol filled with graphene and boron nitride. <i>Carbon</i> , 2016 , 99, 280-288	10.4	33
71	Soret and Dufour effects on flow in converging and diverging channels with chemical reaction. <i>Aerospace Science and Technology</i> , 2016 , 49, 135-143	4.9	25
70	Understanding the Dispersion and Assembly of Bacterial Cellulose in Organic Solvents. <i>Biomacromolecules</i> , 2016 , 17, 1845-53	6.9	25

69	Graphene-MoS ₂ nanosheet composites as electrodes for dye sensitised solar cells. <i>Materials Research Express</i> , 2016 , 3, 035007	1.7	10
68	A Commercial Conducting Polymer as Both Binder and Conductive Additive for Silicon Nanoparticle-Based Lithium-Ion Battery Negative Electrodes. <i>ACS Nano</i> , 2016 , 10, 3702-13	16.7	320
67	Convective heat transfer and thermo-diffusion effects on flow of nanofluid towards a permeable stretching sheet saturated by a porous medium. <i>Aerospace Science and Technology</i> , 2016 , 50, 196-203	4.9	37
66	Graphene oxide and graphene nanosheet reinforced aluminium matrix composites: Powder synthesis and prepared composite characteristics. <i>Materials and Design</i> , 2016 , 94, 87-94	8.1	143
65	Heat transfer analysis for squeezing flow of a Casson fluid between parallel plates. <i>Ain Shams Engineering Journal</i> , 2016 , 7, 497-504	4.4	17
64	Thermo-diffusion, diffusion-thermo and chemical reaction effects on MHD flow of viscous fluid in divergent and convergent channels. <i>Chemical Engineering Science</i> , 2016 , 141, 17-27	4.4	45
63	Stoke's First Problem for Carbon Nanotubes Suspended Nanofluid Flow Under the Effect of Slip Boundary Condition. <i>Journal of Nanofluids</i> , 2016 , 5, 239-244	2.2	9
62	On Combined Effects of Heat Transfer and Chemical Reaction for the Flow through an Asymmetric Channel with Orthogonally Deformable Porous Walls. <i>Mathematical Problems in Engineering</i> , 2016 , 2016, 1-10	1.1	18
61	Photoluminescence from Liquid-Exfoliated WS ₂ Monomers in Poly(Vinyl Alcohol) Polymer Composites. <i>Advanced Functional Materials</i> , 2016 , 26, 1028-1039	15.6	62
60	A BIOCONVECTION MODEL FOR MHD FLOW AND HEAT TRANSFER OVER A POROUS WEDGE CONTAINING BOTH NANOPARTICLES AND GYROTATIC MICROORGANISMS. <i>Journal of Biological Systems</i> , 2016 , 24, 409-429	1.6	16
59	Sensitive electromechanical sensors using viscoelastic graphene-polymer nanocomposites. <i>Science</i> , 2016 , 354, 1257-1260	33.3	517
58	Influence of viscous dissipation and Joule heating on MHD bio-convection flow over a porous wedge in the presence of nanoparticles and gyrotactic microorganisms. <i>SpringerPlus</i> , 2016 , 5, 2043		18
57	Electrical, Mechanical, and Capacity Percolation Leads to High-Performance MoS ₂ /Nanotube Composite Lithium Ion Battery Electrodes. <i>ACS Nano</i> , 2016 , 10, 5980-90	16.7	134
56	Analytical and numerical investigation of thermal radiation effects on flow of viscous incompressible fluid with stretchable convergent/divergent channels. <i>Journal of Molecular Liquids</i> , 2016 , 224, 768-775	6	56
55	On heat and mass transfer analysis for the flow of a nanofluid between rotating parallel plates. <i>Aerospace Science and Technology</i> , 2015 , 46, 514-522	4.9	115
54	Effects of Viscous Dissipation and Convective Boundary Conditions on Blasius and Sakiadis Problems for Casson Fluid. <i>The National Academy of Sciences, India</i> , 2015 , 38, 247-250	0.6	12
53	A Study of Velocity and Temperature Slip Effects on Flow of Water Based Nanofluids in Converging and Diverging Channels. <i>International Journal of Applied and Computational Mathematics</i> , 2015 , 1, 569-587	1.3	28
52	Effects of viscous dissipation and slip velocity on two-dimensional and axisymmetric squeezing flow of Cu-water and Cu-kerosene nanofluids. <i>Propulsion and Power Research</i> , 2015 , 4, 40-49	3.6	45

51	Magnetohydrodynamic Flow and Heat Transfer of Nanofluids in Stretchable Convergent/Divergent Channels. <i>Applied Sciences (Switzerland)</i> , 2015 , 5, 1639-1664	2.6	68
50	Boron nitride nanosheets as barrier enhancing fillers in melt processed composites. <i>Nanoscale</i> , 2015 , 7, 4443-50	7.7	45
49	Solutions of fractional diffusion equations by variation of parameters method. <i>Thermal Science</i> , 2015 , 19, 69-75	1.2	4
48	Enhancing the mechanical properties of BN nanosheet-polymer composites by uniaxial drawing. <i>Nanoscale</i> , 2014 , 6, 4889-95	7.7	70
47	Scalable production of large quantities of defect-free few-layer graphene by shear exfoliation in liquids. <i>Nature Materials</i> , 2014 , 13, 624-30	27	1627
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44	Reinforcement in melt-processed polymer-graphene composites at extremely low graphene loading level. <i>Carbon</i> , 2014 , 78, 243-249	10.4	120
43	On unsteady two-dimensional and axisymmetric squeezing flow between parallel plates. <i>AEJ - Alexandria Engineering Journal</i> , 2014 , 53, 463-468	6.1	38
42	MHD squeezing flow between two infinite plates. <i>Ain Shams Engineering Journal</i> , 2014 , 5, 187-192	4.4	42
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40	Polymer reinforcement using liquid-exfoliated boron nitride nanosheets. <i>Nanoscale</i> , 2013 , 5, 581-7	7.7	156
39	A Technique To Pretreat Graphite Which Allows the Rapid Dispersion of Defect-Free Graphene in Solvents at High Concentration. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 19212-19218	3.8	46
38	Photoconductivity of solution-processed MoS ₂ films. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6899	7.1	88
37	Reinforcement of metal with liquid-exfoliated inorganic nano-platelets. <i>Applied Physics Letters</i> , 2013 , 103, 163106	3.4	11
36	Improving the mechanical properties of graphene oxide based materials by covalent attachment of polymer chains. <i>Carbon</i> , 2013 , 52, 363-371	10.4	211
35	Thermoelectric behavior of organic thin film nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013 , 51, 119-123	2.6	99
34	Improved adhesive strength and toughness of polyvinyl acetate glue on addition of small quantities of graphene. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 1423-8	9.5	91

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32	Approaching the theoretical limit for reinforcing polymers with graphene. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1278-1282		145
31	Role of Solubility Parameters in Understanding the Steric Stabilization of Exfoliated Two-Dimensional Nanosheets by Adsorbed Polymers. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11393-11400	3.8	171
30	High strength composite fibres from polyester filled with nanotubes and graphene. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12907		40
29	Preparation of High Concentration Dispersions of Exfoliated MoS ₂ with Increased Flake Size. <i>Chemistry of Materials</i> , 2012 , 24, 2414-2421	9.6	437
28	Size selection of dispersed, exfoliated graphene flakes by controlled centrifugation. <i>Carbon</i> , 2012 , 50, 470-475	10.4	240
27	Observation of mechanical percolation in functionalized graphene oxide/elastomer composites. <i>Carbon</i> , 2012 , 50, 4489-4494	10.4	60
26	Study of the mechanical, electrical and morphological properties of PU/MWCNT composites obtained by two different processing routes. <i>Composites Science and Technology</i> , 2012 , 72, 235-242	8.6	36
25	Flexible, transparent dielectric capacitors with nanostructured electrodes. <i>Applied Physics Letters</i> , 2012 , 101, 103106	3.4	33
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23	Graphene Dispersion and Exfoliation in Low Boiling Point Solvents. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 5422-5428	3.8	390
22	Two-dimensional nanosheets produced by liquid exfoliation of layered materials. <i>Science</i> , 2011 , 331, 568-71	33.3	5221
21	Graphene, carbon nanotube and ionic liquid mixtures: towards new quasi-solid state electrolytes for dye sensitised solar cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16990		77
20	Influence of hard segment content and nature on polyurethane/multiwalled carbon nanotube composites. <i>Composites Science and Technology</i> , 2011 , 71, 1030-1038	8.6	73
19	Tuning the mechanical properties of composites from elastomeric to rigid thermoplastic by controlled addition of carbon nanotubes. <i>Small</i> , 2011 , 7, 1579-86	11	30
18	Large-scale exfoliation of inorganic layered compounds in aqueous surfactant solutions. <i>Advanced Materials</i> , 2011 , 23, 3944-8	24	888
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16	Selective Mechanical Reinforcement of Thermoplastic Polyurethane by Targeted Insertion of Functionalized SWCNTs. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 11401-11408	3.8	41

15	High-concentration, surfactant-stabilized graphene dispersions. <i>ACS Nano</i> , 2010 , 4, 3155-62	16.7	826
14	Improvement of transparent conducting nanotube films by addition of small quantities of graphene. <i>ACS Nano</i> , 2010 , 4, 4238-46	16.7	102
13	Size effects and the problem with percolation in nanostructured transparent conductors. <i>ACS Nano</i> , 2010 , 4, 7064-72	16.7	269
12	The preparation of hybrid films of carbon nanotubes and nano-graphite/graphene with excellent mechanical and electrical properties. <i>Carbon</i> , 2010 , 48, 2825-2830	10.4	94
11	Development of stiff, strong, yet tough composites by the addition of solvent exfoliated graphene to polyurethane. <i>Carbon</i> , 2010 , 48, 4035-4041	10.4	249
10	High-concentration solvent exfoliation of graphene. <i>Small</i> , 2010 , 6, 864-71	11	810
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7	The effect of solvent choice on the mechanical properties of carbon nanotube/polymer composites. <i>Composites Science and Technology</i> , 2007 , 67, 3158-3167	8.6	48
6	Mechanical Reinforcement of Polymers Using Carbon Nanotubes. <i>Advanced Materials</i> , 2006 , 18, 689-706	24	1399
5	Small but strong: A review of the mechanical properties of carbon nanotube/polymer composites. <i>Carbon</i> , 2006 , 44, 1624-1652	10.4	3269
4	Comparative thermal transport mechanism in Cu-H ₂ O and Cu-Al ₂ O ₃ /H ₂ O nanofluids: numerical investigation. <i>Waves in Random and Complex Media</i> , 1-16	1.9	5
3	Thermal performance in nanofluid and hybrid nanofluid under the influence of mixed convection and viscous dissipation: numerical investigation. <i>Waves in Random and Complex Media</i> , 1-19	1.9	0
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