Umar Khan

List of Publications by Citations

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	Two-dimensional nanosheets produced by liquid exfoliation of layered materials. *Science*, **2011**, 331, 568-71	33.3	5221
193	Small but strong: A review of the mechanical properties of carbon nanotube–polymer composites. *Carbon*, **2006**, 44, 1624-1652	10.4	3269
192	Scalable production of large quantities of defect-free few-layer graphene by shear exfoliation in liquids. *Nature Materials*, **2014**, 13, 624-30	27	1627
191	Mechanical Reinforcement of Polymers Using Carbon Nanotubes. *Advanced Materials*, **2006**, 18, 689-706	24	1399
190	Large-scale exfoliation of inorganic layered compounds in aqueous surfactant solutions. *Advanced Materials*, **2011**, 23, 3944-8	24	888
189	High-concentration, surfactant-stabilized graphene dispersions. *ACS Nano*, **2010**, 4, 3155-62	16.7	826
188	High-concentration solvent exfoliation of graphene. *Small*, **2010**, 6, 864-71	11	810
187	Sensitive, high-strain, high-rate bodily motion sensors based on graphene-rubber composites. *ACS Nano*, **2014**, 8, 8819-30	16.7	588
186	Sensitive electromechanical sensors using viscoelastic graphene-polymer nanocomposites. *Science*, **2016**, 354, 1257-1260	33.3	517
185	Preparation of High Concentration Dispersions of Exfoliated MoS2 with Increased Flake Size. *Chemistry of Materials*, **2012**, 24, 2414-2421	9.6	437
184	Graphene Dispersion and Exfoliation in Low Boiling Point Solvents. *Journal of Physical Chemistry C*, **2011**, 115, 5422-5428	3.8	390
183	A Commercial Conducting Polymer as Both Binder and Conductive Additive for Silicon Nanoparticle-Based Lithium-Ion Battery Negative Electrodes. *ACS Nano*, **2016**, 10, 3702-13	16.7	320
182	Solvent-exfoliated graphene at extremely high concentration. *Langmuir*, **2011**, 27, 9077-82	4	280
181	Size effects and the problem with percolation in nanostructured transparent conductors. *ACS Nano*, **2010**, 4, 7064-72	16.7	269
180	Development of stiff, strong, yet tough composites by the addition of solvent exfoliated graphene to polyurethane. *Carbon*, **2010**, 48, 4035-4041	10.4	249
179	Size selection of dispersed, exfoliated graphene flakes by controlled centrifugation. *Carbon*, **2012**, 50, 470-475	10.4	240
178	Improving the mechanical properties of graphene oxide based materials by covalent attachment of polymer chains. *Carbon*, **2013**, 52, 363-371	10.4	211

177 — Role of Solubility Parameters in Understanding the Steric Stabilization of Exfoliated Two-Dimensional Nanosheets by Adsorbed Polymers. *Journal of Physical Chemistry C*, **2012**, 116, 11393-11400 — 3.8 — 171

176 — Polymer reinforcement using liquid-exfoliated boron nitride nanosheets. *Nanoscale*, **2013**, 5, 581-7 — 7.7 — 156

175 — Approaching the theoretical limit for reinforcing polymers with graphene. *Journal of Materials Chemistry*, **2012**, 22, 1278-1282 — 145

174 — Graphene oxide and graphene nanosheet reinforced aluminium matrix composites: Powder synthesis and prepared composite characteristics. *Materials and Design*, **2016**, 94, 87-94 — 8.1 — 143

173 — Electrical, Mechanical, and Capacity Percolation Leads to High-Performance MoS2/Nanotube Composite Lithium Ion Battery Electrodes. *ACS Nano*, **2016**, 10, 5980-90 — 16.7 — 134

172 — Reinforcement in melt-processed polymer—graphene composites at extremely low graphene loading level. *Carbon*, **2014**, 78, 243-249 — 10.4 — 120

171 — On heat and mass transfer analysis for the flow of a nanofluid between rotating parallel plates. *Aerospace Science and Technology*, **2015**, 46, 514-522 — 4.9 — 115

170 — Numerical investigation for three dimensional squeezing flow of nanofluid in a rotating channel with lower stretching wall suspended by carbon nanotubes. *Applied Thermal Engineering*, **2017**, 113, 1107-1117 — 5.8 — 110

169 — Improvement of transparent conducting nanotube films by addition of small quantities of graphene. *ACS Nano*, **2010**, 4, 4238-46 — 16.7 — 102

168 — Thermoelectric behavior of organic thin film nanocomposites. *Journal of Polymer Science, Part B: Polymer Physics*, **2013**, 51, 119-123 — 2.6 — 99

167 — The preparation of hybrid films of carbon nanotubes and nano-graphite/graphene with excellent mechanical and electrical properties. *Carbon*, **2010**, 48, 2825-2830 — 10.4 — 94

166 — Improved adhesive strength and toughness of polyvinyl acetate glue on addition of small quantities of graphene. *ACS Applied Materials & Interfaces*, **2013**, 5, 1423-8 — 9.5 — 91

165 — Photoconductivity of solution-processed MoS2 films. *Journal of Materials Chemistry C*, **2013**, 1, 6899 — 7.1 — 88

164 — 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. *Neural Computing and Applications*, **2017**, 28, 37-46 — 4.8 — 83

163 — Graphene, carbon nanotube and ionic liquid mixtures: towards new quasi-solid state electrolytes for dye sensitised solar cells. *Journal of Materials Chemistry*, **2011**, 21, 16990 — 77

162 — Influence of hard segment content and nature on polyurethane/multiwalled carbon nanotube composites. *Composites Science and Technology*, **2011**, 71, 1030-1038 — 8.6 — 73

161 — Enhancing the mechanical properties of BN nanosheet-polymer composites by uniaxial drawing. *Nanoscale*, **2014**, 6, 4889-95 — 7.7 — 70

160 — Magnetohydrodynamic Flow and Heat Transfer of Nanofluids in Stretchable Convergent/Divergent Channels. *Applied Sciences (Switzerland)*, **2015**, 5, 1639-1664 — 2.6 — 68

159	Photoluminescence from Liquid-Exfoliated WS2 Monomers in Poly(Vinyl Alcohol) Polymer Composites. *Advanced Functional Materials*, **2016**, 26, 1028-1039	15.6	62
158	Electroconductive Biohybrid Collagen/Pristine Graphene Composite Biomaterials with Enhanced Biological Activity. *Advanced Materials*, **2018**, 30, e1706442	24	60
157	Observation of mechanical percolation in functionalized graphene oxide/elastomer composites. *Carbon*, **2012**, 50, 4489-4494	10.4	60
156	Analytical and numerical investigation of thermal radiation effects on flow of viscous incompressible fluid with stretchable convergent/divergent channels. *Journal of Molecular Liquids*, **2016**, 224, 768-775	6	56
155	High Quality Dispersions of Functionalized Single Walled Nanotubes at High Concentration. *Journal of Physical Chemistry C*, **2008**, 112, 3519-3524	3.8	55
154	Strong, Tough, Electrospun Polymer-Nanotube Composite Membranes with Extremely Low Density. *Advanced Functional Materials*, **2008**, 18, 2618-2624	15.6	55
153	Influence of thermal radiation and viscous dissipation on squeezed flow of water between Riga plates saturated with carbon nanotubes. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 522, 389-398	5.1	54
152	Thermal Analysis of Nanofluid Flow over a Curved Stretching Surface Suspended by Carbon Nanotubes with Internal Heat Generation. *Applied Sciences (Switzerland)*, **2018**, 8, 395	2.6	50
151	The effect of solvent choice on the mechanical properties of carbon nanotube-polymer composites. *Composites Science and Technology*, **2007**, 67, 3158-3167	8.6	48
150	Nonlinear radiation effects on MHD flow of nanofluid over a nonlinearly stretching/shrinking wedge. *Neural Computing and Applications*, **2017**, 28, 2041-2050	4.8	47
149	A novel coupling of (CNT-Fe3O4/H2O) hybrid nanofluid for improvements in heat transfer for flow in an asymmetric channel with dilating/squeezing walls. *International Journal of Heat and Mass Transfer*, **2019**, 136, 186-195	4.9	47
148	A Technique To Pretreat Graphite Which Allows the Rapid Dispersion of Defect-Free Graphene in Solvents at High Concentration. *Journal of Physical Chemistry C*, **2013**, 117, 19212-19218	3.8	46
147	Effects of viscous dissipation and slip velocity on two-dimensional and axisymmetric squeezing flow of Cu-water and Cu-kerosene nanofluids. *Propulsion and Power Research*, **2015**, 4, 40-49	3.6	45
146	Thermo-diffusion, diffusion-thermo and chemical reaction effects on MHD flow of viscous fluid in divergent and convergent channels. *Chemical Engineering Science*, **2016**, 141, 17-27	4.4	45
145	Boron nitride nanosheets as barrier enhancing fillers in melt processed composites. *Nanoscale*, **2015**, 7, 4443-50	7.7	45
144	Exact traveling wave solutions of fractional order Boussinesq-like equations by applying Exp-function method. *Results in Physics*, **2018**, 8, 114-120	3.7	44
143	Thermo-diffusion and diffusion-thermo effects on flow of second grade fluid between two inclined plane walls. *Journal of Molecular Liquids*, **2016**, 224, 1074-1082	6	44
142	MHD squeezing flow between two infinite plates. *Ain Shams Engineering Journal*, **2014**, 5, 187-192	4.4	42

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141	Selective Mechanical Reinforcement of Thermoplastic Polyurethane by Targeted Insertion of Functionalized SWCNTs. *Journal of Physical Chemistry C*, **2010**, 114, 11401-11408	3.8	41
140	Thermophysical Analysis of Water Based (Cu–Al2O3) Hybrid Nanofluid in an Asymmetric Channel with Dilating/Squeezing Walls Considering Different Shapes of Nanoparticles. *Applied Sciences (Switzerland)*, **2018**, 8, 1549	2.6	41
139	Analysis of magnetohydrodynamic flow and heat transfer of Cu–water nanofluid between parallel plates for different shapes of nanoparticles. *Neural Computing and Applications*, **2018**, 29, 695-703	4.8	40
138	Unsteady radiative flow of chemically reacting fluid over a convectively heated stretchable surface with cross-diffusion gradients. *International Journal of Thermal Sciences*, **2017**, 121, 182-191	4.1	40
137	High strength composite fibres from polyester filled with nanotubes and graphene. *Journal of Materials Chemistry*, **2012**, 22, 12907		40
136	Thermo-diffusion effects on MHD stagnation point flow towards a stretching sheet in a nanofluid. *Propulsion and Power Research*, **2014**, 3, 151-158	3.6	39
135	On unsteady two-dimensional and axisymmetric squeezing flow between parallel plates. *AEJ - Alexandria Engineering Journal*, **2014**, 53, 463-468	6.1	38
134	Convective heat transfer and thermo-diffusion effects on flow of nanofluid towards a permeable stretching sheet saturated by a porous medium. *Aerospace Science and Technology*, **2016**, 50, 196-203	4.9	37
133	Graphene-coated polymer foams as tuneable impact sensors. *Nanoscale*, **2018**, 10, 5366-5375	7.7	36
132	Surface coatings of silver nanowires lead to effective, high conductivity, high-strain, ultrathin sensors. *Nanoscale*, **2017**, 9, 18507-18515	7.7	36
131	Study of the mechanical, electrical and morphological properties of PU/MWCNT composites obtained by two different processing routes. *Composites Science and Technology*, **2012**, 72, 235-242	8.6	36
130	Polymer grafting to single-walled carbon nanotubes: effect of chain length on solubility, graft density and mechanical properties of macroscopic structures. *Small*, **2013**, 9, 552-60	11	36
129	Heat transfer enhancement in hydromagnetic dissipative flow past a moving wedge suspended by 2-aluminum alloy nanoparticles in the presence of thermal radiation. *International Journal of Hydrogen Energy*, **2017**, 42, 24634-24644	6.7	35
128	Heat and mass transfer analysis for MHD flow of nanofluid inconvergent/divergent channels with stretchable walls using Buongiorno's model. *Neural Computing and Applications*, **2017**, 28, 4079-4092	4.8	34
127	Influence of an effective Prandtl number model on squeezed flow of Al_2O_3-H_2O and Al_2O_3-$C_2H_6O_2$ nanofluids. *Journal of Molecular Liquids*, **2017**, 238, 447-454	6	34
126	Differential transform method for unsteady nanofluid flow and heat transfer. *AEJ - Alexandria Engineering Journal*, **2018**, 57, 1867-1875	6.1	34
125	High stiffness nano-composite fibres from polyvinylalcohol filled with graphene and boron nitride. *Carbon*, **2016**, 99, 280-288	10.4	33
124	Flexible, transparent dielectric capacitors with nanostructured electrodes. *Applied Physics Letters*, **2012**, 101, 103106	3.4	33

123	Extracting new solitary wave solutions of Benny Luke equation and Phi-4 equation of fractional order by using (G?/G)-expansion method. *Optical and Quantum Electronics*, **2017**, 49, 1	2.4	32
122	3D squeezed flow of Al2O3 H2O and Al2O3 C2H6O2 nanofluids: A numerical study. *International Journal of Hydrogen Energy*, **2017**, 42, 24620-24633	6.7	30
121	Khater method for nonlinear Sharma Tasso-Olever (STO) equation of fractional order. *Results in Physics*, **2017**, 7, 4440-4450	3.7	30
120	Tuning the mechanical properties of composites from elastomeric to rigid thermoplastic by controlled addition of carbon nanotubes. *Small*, **2011**, 7, 1579-86	11	30
119	A study of heat and mass transfer on magnetohydrodynamic (MHD) flow of nanoparticles. *Propulsion and Power Research*, **2018**, 7, 72-77	3.6	29
118	Exact solutions of (3 + 1)-dimensional generalized KP equation arising in physics. *Results in Physics*, **2017**, 7, 3901-3909	3.7	28
117	A Study of Velocity and Temperature Slip Effects on Flow of Water Based Nanofluids in Converging and Diverging Channels. *International Journal of Applied and Computational Mathematics*, **2015**, 1, 569-587	1.3	28
116	MHD FLOW OF AN INCOMPRESSIBLE FLUID THROUGH POROUS MEDIUM BETWEEN DILATING AND SQUEEZING PERMEABLE WALLS. *Journal of Porous Media*, **2014**, 17, 861-867	2.9	28
115	Effects on magnetic field in squeezing flow of a Casson fluid between parallel plates. *Journal of King Saud University - Science*, **2017**, 29, 119-125	3.6	27
114	Soret and Dufour effects on Jeffery-Hamel flow of second-grade fluid between convergent/divergent channel with stretchable walls. *Results in Physics*, **2017**, 7, 361-372	3.7	26
113	Soret and Dufour effects on flow in converging and diverging channels with chemical reaction. *Aerospace Science and Technology*, **2016**, 49, 135-143	4.9	25
112	Understanding the Dispersion and Assembly of Bacterial Cellulose in Organic Solvents. *Biomacromolecules*, **2016**, 17, 1845-53	6.9	25
111	Influence of nonlinear thermal radiation on the viscous flow through a deformable asymmetric porous channel: A numerical study. *Journal of Molecular Liquids*, **2017**, 225, 167-173	6	23
110	Inverting Polyurethanes Synthesis: Effects on Nano/Micro-Structure and Mechanical Properties. *Soft Materials*, **2010**, 9, 79-93	1.7	21
109	Nonlinear radiation effects on flow of nanofluid over a porous wedge in the presence of magnetic field. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2017**, 27, 48-63	4.5	18
108	On Combined Effects of Heat Transfer and Chemical Reaction for the Flow through an Asymmetric Channel with Orthogonally Deformable Porous Walls. *Mathematical Problems in Engineering*, **2016**, 2016, 1-10	1.1	18
107	Influence of viscous dissipation and Joule heating on MHD bio-convection flow over a porous wedge in the presence of nanoparticles and gyrotactic microorganisms. *SpringerPlus*, **2016**, 5, 2043		18
106	A New Modification in Simple Equation Method and its applications on nonlinear equations of physical nature. *Results in Physics*, **2017**, 7, 4232-4240	3.7	17

105	Heat transfer analysis for squeezing flow of a Casson fluid between parallel plates. *Ain Shams Engineering Journal*, **2016**, 7, 497-504	4.4	17
104	MHD flow of radiative micropolar nanofluid in a porous channel: optimal and numerical solutions. *Neural Computing and Applications*, **2018**, 29, 793-801	4.8	16
103	A BIOCONVECTION MODEL FOR MHD FLOW AND HEAT TRANSFER OVER A POROUS WEDGE CONTAINING BOTH NANOPARTICLES AND GYROTATIC MICROORGANISMS. *Journal of Biological Systems*, **2016**, 24, 409-429	1.6	16
102	Spherical Shaped (A g Ⅎ e 3 O 4 / H 2 O) Hybrid Nanofluid. *Energies*, **2019**, 12, 76	3.1	16
101	Optimal solutions for homogeneous and non-homogeneous equations arising in physics. *Results in Physics*, **2017**, 7, 216-224	3.7	15
100	Influence of shape factor on flow of magneto-nanofluid squeezed between parallel disks. *AEJ - Alexandria Engineering Journal*, **2018**, 57, 1893-1903	6.1	15
99	Nonlinear Thermal Radiation and Chemical Reaction Effects on a (Cu\u2013CuO)/NaAlg Hybrid Nanofluid Flow Past a Stretching Curved Surface. *Processes*, **2019**, 7, 962	2.9	15
98	A bioconvection model for a squeezing flow of nanofluid between parallel plates in the presence of gyrotactic microorganisms. *European Physical Journal Plus*, **2017**, 132, 1	3.1	14
97	A finite element investigation of the flow of a Newtonian fluid in dilating and squeezing porous channel under the influence of nonlinear thermal radiation. *Neural Computing and Applications*, **2018**, 29, 501-508	4.8	13
96	Shape effects of nanoparticles on the squeezed flow between two Riga plates in the presence of thermal radiation. *European Physical Journal Plus*, **2017**, 132, 1	3.1	13
95	Exact solutions for STO and (3+1)-dimensional KdV-ZK equations using G?G2-expansion method. *Results in Physics*, **2017**, 7, 4434-4439	3.7	13
94	Modified heat transfer flow model for SWCNTs-H2O and MWCNTs-H2O over a curved stretchable semi infinite region with thermal jump and velocity slip: A numerical simulation. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 545, 123431	3.3	13
93	Some exact solutions of the nonlinear space\u2013time fractional differential equations. *Waves in Random and Complex Media*, **2019**, 29, 645-664	1.9	13
92	MHD nanofluid flow through a deformable asymmetric porous channel. *Engineering Computations*, **2017**, 34, 852-868	1.4	12
91	Effects of Viscous Dissipation and Convective Boundary Conditions on Blasius and Sakiadis Problems for Casson Fluid. *The National Academy of Sciences, India*, **2015**, 38, 247-250	0.6	12
90	Thermal Transport Investigation in Magneto-Radiative GO-MoS/HO-CHO Hybrid Nanofluid Subject to Cattaneo-Christov Model. *Molecules*, **2020**, 25,	4.8	12
89	Some new exact solitary wave solutions of the van der Waals model arising in nature. *Results in Physics*, **2018**, 9, 648-655	3.7	12
88	Flow of carbon nanotubes suspended nanofluid in stretchable non-parallel walls. *Neural Computing and Applications*, **2018**, 30, 2859-2871	4.8	12

87	A comparison of catabolic pathways induced in primary macrophages by pristine single walled carbon nanotubes and pristine graphene. *RSC Advances*, **2016**, 6, 65299-65310	3.7	12
86	Influence of viscous dissipation on a copper oxide nanofluid in an oblique channel: Implementation of the KKL model. *European Physical Journal Plus*, **2017**, 132, 1	3.1	11
85	Impact of an effective Prandtl number model and across mass transport phenomenon on the Al2O3 nanofluid flow inside a channel. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 526, 121083	3.3	11
84	A theoretical investigation of unsteady thermally stratified flow of Al2O3-H2O and Al2O3-C2H6O2 nanofluids through a thin slit. *Journal of Physics and Chemistry of Solids*, **2018**, 119, 296-308	3.9	11
83	Reinforcement of metal with liquid-exfoliated inorganic nano-platelets. *Applied Physics Letters*, **2013**, 103, 163106	3.4	11
82	A Novel Hybrid Model for Cu-Al2O3/H2O Nanofluid Flow and Heat Transfer in Convergent/Divergent Channels. *Energies*, **2020**, 13, 1686	3.1	10
81	Graphene-MoS2 nanosheet composites as electrodes for dye sensitised solar cells. *Materials Research Express*, **2016**, 3, 035007	1.7	10
80	Flow of a radioactive Casson fluid through a deformable asymmetric porous channel. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2017**, 27, 2115-2130	4.5	10
79	Optimal solutions for the evolution of a social obesity epidemic model. *European Physical Journal Plus*, **2017**, 132, 1	3.1	9
78	Heat transfer intensification in hydromagnetic and radiative 3D unsteady flow regimes: A comparative theoretical investigation for aluminum and aluminum oxides nanoparticles. *Journal of Central South University*, **2019**, 26, 1233-1249	2.1	9
77	Auxiliary equation method for ill-posed Boussinesq equation. *Physica Scripta*, **2019**, 94, 085213	2.6	9
76	An advanced version of a conformable mathematical model of Ebola virus disease in Africa. *AEJ - Alexandria Engineering Journal*, **2020**, 59, 3261-3268	6.1	9
75	Investigation of Thermal Transport in Multi-Shaped Cu Nanomaterial-Based Nanofluids. *Materials*, **2020**, 13,	3.5	9
74	Nanofluid Thermal Transport between Parallel Plates Suspended by Micro-Cantilever Sensor by Incorporating the Effective Prandtl Model: Applications to Biological and Medical Sciences. *Molecules*, **2020**, 25,	4.8	9
73	Thermal radiation effects on flow of Jeffery fluid in converging and diverging stretchable channels. *Neural Computing and Applications*, **2018**, 30, 2371-2379	4.8	9
72	Numerical investigation of magnetohydrodynamic flow and heat transfer of copper-water nanofluid in a channel with non-parallel walls considering different shapes of nanoparticles. *Advances in Mechanical Engineering*, **2016**, 8, 168781401663731	1.2	9
71	Stoke's First Problem for Carbon Nanotubes Suspended Nanofluid Flow Under the Effect of Slip Boundary Condition. *Journal of Nanofluids*, **2016**, 5, 239-244	2.2	9
70	Heat Transfer Enhancement by Coupling of Carbon Nanotubes and SiO2 Nanofluids: A Numerical Approach. *Processes*, **2019**, 7, 937	2.9	9

69	Thermal improvement in magnetized nanofluid for multiple shapes nanoparticles over radiative rotating disk. *AEJ - Alexandria Engineering Journal*, **2021**, 61, 2318-2318	6.1	9
68	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. *Engineering Computations*, **2017**, 34, 587-602	1.4	8
67	Applications of Nanofluids for the Thermal Enhancement in Radiative and Dissipative Flow over a Wedge. *Applied Sciences (Switzerland)*, **2019**, 9, 1976	2.6	8
66	A new modification in the exponential rational function method for nonlinear fractional differential equations. *European Physical Journal Plus*, **2018**, 133, 1	3.1	8
65	Optimal variational iteration method for nonlinear problemsPeer review under responsibility of University of Bahrain.View all notes. *Journal of the Association of Arab Universities for Basic and Applied Sciences*, **2017**, 24, 191-197		7
64	Influence of the shape factor on the flow and heat transfer of a water-based nanofluid in a rotating system. *European Physical Journal Plus*, **2017**, 132, 1	3.1	7
63	Influence of thermal and concentration gradients on unsteady flow over a stretchable surface. *Results in Physics*, **2017**, 7, 3153-3162	3.7	7
62	Modified MHD Radiative Mixed Convective Nanofluid Flow Model with Consideration of the Impact of Freezing Temperature and Molecular Diameter. *Symmetry*, **2019**, 11, 833	2.7	7
61	Some new solutions of the Caudrey￭Dodd￭Gibbon (CDG) equation using the conformable derivative. *Advances in Difference Equations*, **2019**, 2019,	3.6	7
60	Exact solutions of perturbed nonlinear Schrödinger￭s equation with Kerr law nonlinearity by improved ({textbf{tan}} left({frac{{boldsymbol{phi}} left({boldsymbol{xi}} right)}{{textbf{2}}}} right))-expansion method. *Optical and Quantum Electronics*, **2018**, 50, 1	2.4	7
59	Optimal solutions for a bio mathematical model for the evolution of smoking habit. *Results in Physics*, **2017**, 7, 510-517	3.7	6
58	Optimal variational iteration method using Adomian￭s polynomials for physical problems on finite and semi-infinite intervals. *European Physical Journal Plus*, **2017**, 132, 1	3.1	6
57	Stimulations of Thermophysical Characteristics of Nano-Diamond and Silver Nanoparticles for Nonlinear Radiative Curved Surface Flow. *IEEE Access*, **2019**, 7, 55509-55517	3.5	6
56	Impacts of Freezing Temperature Based Thermal Conductivity on the Heat Transfer Gradient in Nanofluids: Applications for a Curved Riga Surface. *Molecules*, **2020**, 25,	4.8	6
55	Radiative Colloidal Investigation for Thermal Transport by Incorporating the Impacts of Nanomaterial and Molecular Diameters (d, d): Applications in Multiple Engineering Systems. *Molecules*, **2020**, 25,	4.8	6
54	Heat and mass transport investigation in radiative and chemically reacting fluid over a differentially heated surface and internal heating. *Open Physics*, **2020**, 18, 842-852	1.3	6
53	Numerical examination for nanomaterial forced convection within a permeable cavity involving magnetic forces. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 550, 123962	3.3	6
52	Hidden phenomena of MHD on 3D squeezed flow of radiative-H2O suspended by aluminum alloys nanoparticles. *European Physical Journal Plus*, **2020**, 135, 1	3.1	6

51	Thermal transport investigation in AA7072 and AA7075 aluminum alloys nanomaterials based radiative nanofluids by considering the multiple physical flow conditions. *Scientific Reports*, **2021**, 11, 9837	4.9	6
50	An approach for approximate solution of fractional-order smoking model with relapse class. *International Journal of Biomathematics*, **2018**, 11, 1850077	1.8	6
49	On Mixed Convection Squeezing Flow of Nanofluids. *Energies*, **2020**, 13, 3138	3.1	5
48	Improved tan(left({frac{{phi left(varvec{xi}right)}}{2}} right))-expansion method for (2 + 1)-dimensional KPBBM wave equation. *Optical and Quantum Electronics*, **2018**, 50, 1	2.4	5
47	Flow of ferro-magnetic nanoparticles in a rotating system: a numerical investigation of particle shapes. *Indian Journal of Physics*, **2018**, 92, 969-977	1.4	5
46	Drag Reduction on a Square Cylinder using Multiple Detached Control Cylinders. *KSCE Journal of Civil Engineering*, **2018**, 22, 2023-2034	1.9	5
45	Flow of magneto-nanofluid over a thermally stratified bi-directional stretching sheet in the presence of Ohmic heating. *Engineering Computations*, **2017**, 34, 2499-2513	1.4	5
44	Comparative thermal transport mechanism in Cu-H2O and Cu-Al2O3/H2O nanofluids: numerical investigation. *Waves in Random and Complex Media*,1-16	1.9	5
43	Influence of Joule Heating and Viscous Dissipation on MHD Flow and Heat Transfer of Viscous Fluid in Converging/Diverging Stretchable Channels. *Journal of Nanofluids*, **2017**, 6, 254-263	2.2	5
42	Low cost, high performance ultrafiltration membranes from glass fiber-PTFE-graphene composites. *Scientific Reports*, **2020**, 10, 21123	4.9	5
41	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. *Mathematical Problems in Engineering*, **2020**, 2020, 1-10	1.1	5
40	Particle shape, thermal radiations, viscous dissipation and joule heating effects on flow of magneto-nanofluid in a rotating system. *Engineering Computations*, **2017**, 34, 2479-2498	1.4	4
39	A conformable mathematical model for alcohol consumption in Spain. *International Journal of Biomathematics*, **2019**, 12, 1950057	1.8	4
38	Analytical approach to study a mathematical model of CD4+T-cells. *International Journal of Biomathematics*, **2018**, 11, 1850056	1.8	4
37	Solutions of fractional diffusion equations by variation of parameters method. *Thermal Science*, **2015**, 19, 69-75	1.2	4
36	Heat transfer enhancement in H2O suspended by aluminium alloy nanoparticles over a convective stretching surface. *Advances in Mechanical Engineering*, **2020**, 12, 168781402094234	1.2	4
35	MHD squeezing flow between two parallel disks with suction or injection via Legendre wavelet-quasilinearization technique. *Engineering Computations*, **2017**, 34, 892-901	1.4	3
34	A Novel Investigation and Hidden Effects of MHD and Thermal Radiations in Viscous Dissipative Nanofluid Flow Models. *Frontiers in Physics*, **2020**, 8,	3.9	3

33	Optical Solutions of Schrödinger Equation Using Extended Sinh–Gordon Equation Expansion Method. *Frontiers in Physics*, **2020**, 8,	3.9	3
32	Squeezing flow of MHD fluid between parallel disks. *International Journal for Computational Methods in Engineering Science and Mechanics*, **2018**, 19, 42-47	0.7	3
31	MHD Flow of a Viscous Fluid Between Dilating and Squeezing Porous Walls **2017**, 41, 951-956		3
30	Impact of freezing temperature (T) of AlO and molecular diameter (HO) on thermal enhancement in magnetized and radiative nanofluid with mixed convection.. *Scientific Reports*, **2022**, 12, 703	4.9	3
29	The Dynamics of H2O Suspended by Multiple Shaped Cu Nanoadditives in Rotating System. *Journal of Nanomaterials*, **2021**, 2021, 1-11	3.2	3
28	Surface thermal investigation in water functionalized Al2O3 and Al2O3 nanomaterials-based nanofluid over a sensor surface. *Applied Nanoscience (Switzerland)*, **2020**, 1	3.3	3
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