

Umar Khan

List of Publications by Year in descending order

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202
papers

26,107
citations

36303

51
h-index

6131

159
g-index

208
all docs

208
docs citations

208
times ranked

28293
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface thermal investigation in water functionalized Al ₂ O ₃ and $\hat{\text{I}}^3\text{Al}_2\text{O}_3$ nanomaterials-based nanofluid over a sensor surface. Applied Nanoscience (Switzerland), 2023, 13, 119-129.	3.1	11
2	Numerical study of heat transport mechanism in hybrid nanofluid [(Cu-Al ₂ O ₃)/water] over a stretching/shrinking porous wedge. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2023, 237, 635-644.	2.5	7
3	Aggregation effects on flow and heat transfer of nanofluids over curved stretching/shrinking surface with Lorentz forces. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2023, 237, 753-761.	2.5	3
4	Thermal improvement in magnetized nanofluid for multiple shapes nanoparticles over radiative rotating disk. AEJ - Alexandria Engineering Journal, 2022, 61, 2318-2329.	6.4	31
5	Impact of freezing temperature (T _{fr}) of Al ₂ O ₃ and molecular diameter (H ₂ O) _d on thermal enhancement in magnetized and radiative nanofluid with mixed convection. Scientific Reports, 2022, 12, 703.	3.3	15
6	Heat transfer analysis and entropy generation in the nanofluids composed by Aluminum and $\hat{\text{I}}^3$ Aluminum oxides nanoparticles. Case Studies in Thermal Engineering, 2022, 31, 101812.	5.7	14
7	Highly Conductive Networks of Silver Nanosheets. Small, 2022, 18, e2105996.	10.0	16
8	Heat Transfer Evaluation in MgZn ₆ Zr/C ₈ H ₁₈ [(Magnesium $\hat{\text{I}}^3$ Zinc $\hat{\text{I}}^3$ Zirconium)/Engine Oil] With Non-linear Solar Thermal Radiations and Modified Slip Boundaries Over a 3-Dimensional Convectively Heated Surface. Frontiers in Energy Research, 2022, 10, .	2.3	0
9	Numerical investigation of heat transfer in the nanofluids under the impact of length and radius of carbon nanotubes. Open Physics, 2022, 20, 416-430.	1.7	2
10	The Velocity Slip Boundary Condition Effects on Non-Newtonian Ferrofluid over a Stretching Sheet. Mathematical Problems in Engineering, 2022, 2022, 1-20.	1.1	5
11	The Modified Heat Flux Modeling in Nanoparticles (Fe ₃ O ₄ and Aggregation Nanoparticle) Based Fluid between Two Rotating Disks. Energies, 2022, 15, 4088.	3.1	3
12	Irreversibility analysis for flow of nanofluids with aggregation in converging and diverging channel. Scientific Reports, 2022, 12, .	3.3	14
13	Heat transport mechanism in Cu/water and (Cu $\hat{\text{I}}^3$ Al ₂ O ₃)/water under the influence of thermophysical characteristics and non-linear thermal radiation for Blasius/Sakiadis models: Numerical investigation. Journal of the Indian Chemical Society, 2022, 99, 100578.	2.8	12
14	On mathematical model of HIVCD4+T-cells. AEJ - Alexandria Engineering Journal, 2021, 60, 995-1000.	6.4	2
15	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.	3.3	15
16	Enhanced heat transfer in H ₂ O inspired by Al ₂ O ₃ and $\hat{\text{I}}^3\text{Al}_2\text{O}_3$ nanomaterials and effective nanofluid models. Advances in Mechanical Engineering, 2021, 13, 168781402110236.	1.6	5
17	The Numerical Investigation of the Heat Transport in the Nanofluids under the Impacts of Magnetic Field: Applications in Industrial Zone. Mathematical Problems in Engineering, 2021, 2021, 1-11.	1.1	2
18	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]. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127596.	4.7	1

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19	A Study of New Class of Star-Like Functions Associated by Symmetric p, q -Calculus. Journal of Mathematics, 2021, 2021, 1-8.	1.0	1
20	The Dynamics of H ₂ O Suspended by Multiple Shaped Cu Nanoadditives in Rotating System. Journal of Nanomaterials, 2021, 2021, 1-11.	2.7	6
21	Intensification of thermal stratification on dissipative chemically heating fluid with cross-diffusion and magnetic field over a wedge. Open Physics, 2021, 19, 877-888.	1.7	1
22	Impacts of various shaped Cu-nanomaterial on the heat transfer over a bilateral stretchable surface: Numerical investigation. Advances in Mechanical Engineering, 2021, 13, 168781402110674.	1.6	2
23	Applied Mathematical Modelling and Heat Transport Investigation in Hybrid Nanofluids under the Impact of Thermal Radiation: Numerical Analysis. Mathematical Problems in Engineering, 2021, 2021, 1-10.	1.1	4
24	On stability of improved conformable model for studying the dynamics of a malnutrition community. Physica A: Statistical Mechanics and Its Applications, 2020, 537, 122664.	2.6	2
25	Optimized heat transfer flow model for SWCNTs-H ₂ O and MWCNTs-H ₂ O	2.6	20
26	Novel exact double periodic Soliton solutions to strain wave equation in micro structured solids. Physica A: Statistical Mechanics and Its Applications, 2020, 550, 124077.	2.6	11
27	Numerical examination for nanomaterial forced convection within a permeable cavity involving magnetic forces. Physica A: Statistical Mechanics and Its Applications, 2020, 550, 123962.	2.6	7
28	Low cost, high performance ultrafiltration membranes from glass fiber-PTFE-graphene composites. Scientific Reports, 2020, 10, 21123.	3.3	8
29	Hidden phenomena of MHD on 3D squeezed flow of radiative-H ₂ O suspended by aluminum alloys nanoparticles. European Physical Journal Plus, 2020, 135, 1.	2.6	10
30	Heat transfer enhancement in H ₂ O suspended by aluminium alloy nanoparticles over a convective stretching surface. Advances in Mechanical Engineering, 2020, 12, 168781402094234.	1.6	7
31	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	8
32	An advanced version of a conformable mathematical model of Ebola virus disease in Africa. AEJ - Alexandria Engineering Journal, 2020, 59, 3261-3268.	6.4	18
33	A Novel Investigation and Hidden Effects of MHD and Thermal Radiations in Viscous Dissipative Nanofluid Flow Models. Frontiers in Physics, 2020, 8, .	2.1	10
34	Impacts of Freezing Temperature Based Thermal Conductivity on the Heat Transfer Gradient in Nanofluids: Applications for a Curved Riga Surface. Molecules, 2020, 25, 2152.	3.8	22
35	Optical Solutions of Schrödinger Equation Using Extended Sinh-Gordon Equation Expansion Method. Frontiers in Physics, 2020, 8, .	2.1	15
36	Thermal Transport in Nonlinear Unsteady Colloidal Model by Considering the Carbon Nanomaterials Length and Radius. Energies, 2020, 13, 2448.	3.1	3

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37	Thermal Transport Investigation in Magneto-Radiative GO-MoS ₂ /H ₂ O-C ₂ H ₆ O ₂ Hybrid Nanofluid Subject to Cattaneo-Christov Model. <i>Molecules</i> , 2020, 25, 2592.	3.8	25
38	On Mixed Convection Squeezing Flow of Nanofluids. <i>Energies</i> , 2020, 13, 3138.	3.1	9
39	Investigation of Thermal Transport in Multi-Shaped Cu Nanomaterial-Based Nanofluids. <i>Materials</i> , 2020, 13, 2737.	2.9	12
40	A Novel Hybrid Model for Cu-Al ₂ O ₃ /H ₂ O Nanofluid Flow and Heat Transfer in Convergent/Divergent Channels. <i>Energies</i> , 2020, 13, 1686.	3.1	23
41	$\hat{\Gamma}$ -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, 1777.	3.8	21
42	Radiative Colloidal Investigation for Thermal Transport by Incorporating the Impacts of Nanomaterial and Molecular Diameters (dNanoparticles, dFluid): Applications in Multiple Engineering Systems. <i>Molecules</i> , 2020, 25, 1896.	3.8	11
43	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.	1.7	10
44	Heat and Mass Transfer in Magneto-Newtonian Fluid Past a Paraboloid of Revolution with Internal Heat Source. <i>Journal of Magnetism</i> , 2020, 25, 254-261.	0.4	2
45	Zero Mass Flux Effects on Time Dependent Flow of an Eyring Powell with Activation Energy. <i>Journal of Nanofluids</i> , 2020, 9, 216-229.	2.7	1
46	A conformable mathematical model for alcohol consumption in Spain. <i>International Journal of Biomathematics</i> , 2019, 12, 1950057.	2.9	5
47	Applications of Nanofluids for the Thermal Enhancement in Radiative and Dissipative Flow over a Wedge. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1976.	2.5	29
48	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.	2.2	11
49	Heat transfer intensification in hydromagnetic and radiative 3D unsteady flow regimes: A comparative theoretical investigation for aluminum and $\hat{\Gamma}$ -aluminum oxides nanoparticles. <i>Journal of Central South University</i> , 2019, 26, 1233-1249.	3.0	12
50	Impact of an effective Prandtl number model and across mass transport phenomenon on the flow inside a channel. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 526, 121083.	2.6	12
51	Auxiliary equation method for ill-posed Boussinesq equation. <i>Physica Scripta</i> , 2019, 94, 085213.	2.5	13
52	Some new solutions of the Caudrey-Dodd-Gibbon (CDG) equation using the conformable derivative. <i>Advances in Difference Equations</i> , 2019, 2019, .	3.5	7
53	Stimulations of Thermophysical Characteristics of Nano-Diamond and Silver Nanoparticles for Nonlinear Radiative Curved Surface Flow. <i>IEEE Access</i> , 2019, 7, 55509-55517.	4.2	12
54	A novel coupling of $\hat{\Gamma}$ -nanofluid flow inside a channel. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 526, 121083.		

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73	MHD flow of radiative micropolar nanofluid in a porous channel: optimal and numerical solutions. <i>Neural Computing and Applications</i> , 2018, 29, 793-801.	5.6	17
74	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.	5.6	15
75	Thermal radiation effects on flow of Jeffery fluid in converging and diverging stretchable channels. <i>Neural Computing and Applications</i> , 2018, 30, 2371-2379.	5.6	18
76	Influence of shape factor on flow of magneto-nanofluid squeezed between parallel disks. <i>AEJ - Alexandria Engineering Journal</i> , 2018, 57, 1893-1903.	6.4	25
77	Coupling of optimal variation of parameters method with Adomian's polynomials for nonlinear equations representing fluid flow in different geometries. <i>Neural Computing and Applications</i> , 2018, 30, 3431-3444.	5.6	1
78	Flow of carbon nanotubes suspended nanofluid in stretchable non-parallel walls. <i>Neural Computing and Applications</i> , 2018, 30, 2859-2871.	5.6	13
79	Variation of parameters method with an auxiliary parameter for initial value problems. <i>Ain Shams Engineering Journal</i> , 2018, 9, 1959-1963.	6.1	4
80	Differential transform method for unsteady nanofluid flow and heat transfer. <i>AEJ - Alexandria Engineering Journal</i> , 2018, 57, 1867-1875.	6.4	43
81	Squeezing flow of MHD fluid between parallel disks. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2018, 19, 42-47.	2.1	6
82	Drag Reduction on a Square Cylinder using Multiple Detached Control Cylinders. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 2023-2034.	1.9	9
83	An approach for approximate solution of fractional-order smoking model with relapse class. <i>International Journal of Biomathematics</i> , 2018, 11, 1850077.	2.9	10
84	Thermophysical Analysis of Water Based (Cu-Al 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.	2.5	62
85	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.	2.5	66
86	Eyring-Powell fluid flow through a wall jet in the presence of viscous dissipation. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	2
87	Analytical and Numerical Treatment of a Nano-Bioconvection Flow Model in the Presence of Nanoparticles and Gyrotactic Microorganisms. <i>Journal of Nanofluids</i> , 2018, 7, 755-765.	2.7	2
88	Nonlinear radiation effects on MHD flow of nanofluid over a nonlinearly stretching/shrinking wedge. <i>Neural Computing and Applications</i> , 2017, 28, 2041-2050.	5.6	58
89	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.	3.5	38
90	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.	5.6	88

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91	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.	5.6	42
92	Optimal solutions for a bio mathematical model for the evolution of smoking habit. Results in Physics, 2017, 7, 510-517.	4.1	9
93	Optimal solutions for homogeneous and non-homogeneous equations arising in physics. Results in Physics, 2017, 7, 216-224.	4.1	17
94	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.	4.1	39
95	Optimal variational iteration method for nonlinear problems. Journal of the Association of Arab Universities for Basic and Applied Sciences, 2017, 24, 191-197.	1.0	11
96	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.	2.8	21
97	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.	4.7	64
98	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	9
99	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.	2.6	8
100	Influence of an effective Prandtl number model on squeezed flow of $\hat{\text{Al}}_2\text{O}_3\text{-H}_2\text{O}$ and $\hat{\text{Al}}_2\text{O}_3\text{-C}_2\text{H}_6\text{O}$ nanofluids. Journal of Molecular Liquids, 2017, 238, 447-454.	4.9	39
101	Stokes' first problem for MHD flow of Casson nanofluid. Multidiscipline Modeling in Materials and Structures, 2017, 13, 2-10.	1.3	1
102	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.	2.6	24
103	Optimal solutions for the evolution of a social obesity epidemic model. European Physical Journal Plus, 2017, 132, 1.	2.6	13
104	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.	2.6	18
105	Optimal variational iteration method using Adomian's polynomials for physical problems on finite and semi-infinite intervals. European Physical Journal Plus, 2017, 132, 1.	2.6	6
106	MHD squeezing flow between two parallel disks with suction or injection via Legendre wavelet-quasilinearization technique. Engineering Computations, 2017, 34, 892-901.	1.4	4
107	MHD nanofluid flow through a deformable asymmetric porous channel. Engineering Computations, 2017, 34, 852-868.	1.4	13
108	Influence of thermal and concentration gradients on unsteady flow over a stretchable surface. Results in Physics, 2017, 7, 3153-3162.	4.1	14

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127	Thermo Diffusion and Diffusion Thermo Effects on Flow of Viscous Incompressible Fluid Between Convergent/Divergent Channels with Stretching/Shrinking Walls. Journal of Nanofluids, 2017, 6, 574-586.	2.7	1
128	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	23
129	Photoluminescence from Liquidâ€Exfoliated WS ₂ Monomers in Poly(Vinyl Alcohol) Polymer Composites. Advanced Functional Materials, 2016, 26, 1028-1039.	14.9	73
130	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.	1.4	21
131	Sensitive electromechanical sensors using viscoelastic graphene-polymer nanocomposites. Science, 2016, 354, 1257-1260.	12.6	676
132	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.	1.2	23
133	Electrical, Mechanical, and Capacity Percolation Leads to High-Performance MoS ₂ /Nanotube Composite Lithium Ion Battery Electrodes. ACS Nano, 2016, 10, 5980-5990.	14.6	159
134	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.	4.9	63
135	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.	4.9	49
136	Numerical investigation of magnetohydrodynamic flow and heat transfer of copperâ€water nanofluid in a channel with non-parallel walls considering different shapes of nanoparticles. Advances in Mechanical Engineering, 2016, 8, 168781401663731.	1.6	13
137	A comparison of catabolic pathways induced in primary macrophages by pristine single walled carbon nanotubes and pristine graphene. RSC Advances, 2016, 6, 65299-65310.	3.6	13
138	High stiffness nano-composite fibres from polyvinylalcohol filled with graphene and boron nitride. Carbon, 2016, 99, 280-288.	10.3	40
139	Soret and Dufour effects on flow in converging and diverging channels with chemical reaction. Aerospace Science and Technology, 2016, 49, 135-143.	4.8	29
140	Understanding the Dispersion and Assembly of Bacterial Cellulose in Organic Solvents. Biomacromolecules, 2016, 17, 1845-1853.	5.4	29
141	Graphene-MoS ₂ nanosheet composites as electrodes for dye sensitised solar cells. Materials Research Express, 2016, 3, 035007.	1.6	12
142	A Commercial Conducting Polymer as Both Binder and Conductive Additive for Silicon Nanoparticle-Based Lithium-Ion Battery Negative Electrodes. ACS Nano, 2016, 10, 3702-3713.	14.6	394
143	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.	4.8	46
144	Graphene oxide and graphene nanosheet reinforced aluminium matrix composites: Powder synthesis and prepared composite characteristics. Materials and Design, 2016, 94, 87-94.	7.0	176

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145	Heat transfer analysis for squeezing flow of a Casson fluid between parallel plates. <i>Ain Shams Engineering Journal</i> , 2016, 7, 497-504.	6.1	26
146	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.	3.8	66
147	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.	2.7	11
148	Magnetohydrodynamic Flow and Heat Transfer of Nanofluids in Stretchable Convergent/Divergent Channels. <i>Applied Sciences (Switzerland)</i> , 2015, 5, 1639-1664.	2.5	80
149	Boron nitride nanosheets as barrier enhancing fillers in melt processed composites. <i>Nanoscale</i> , 2015, 7, 4443-4450.	5.6	56
150	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.	4.8	128
151	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.	1.3	16
152	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.	1.6	32
153	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.	4.3	59
154	Solutions of fractional diffusion equations by variation of parameters method. <i>Thermal Science</i> , 2015, 19, 69-75.	1.1	4
155	MHD squeezing flow between two infinite plates. <i>Ain Shams Engineering Journal</i> , 2014, 5, 187-192.	6.1	48
156	Enhancing the mechanical properties of BN nanosheet-polymer composites by uniaxial drawing. <i>Nanoscale</i> , 2014, 6, 4889.	5.6	85
157	Scalable production of large quantities of defect-free few-layer graphene by shear exfoliation in liquids. <i>Nature Materials</i> , 2014, 13, 624-630.	27.5	1,958
158	Thermo-diffusion effects on MHD stagnation point flow towards a stretching sheet in a nanofluid. <i>Propulsion and Power Research</i> , 2014, 3, 151-158.	4.3	48
159	Sensitive, High-Strain, High-Rate Bodily Motion Sensors Based on Graphene-Rubber Composites. <i>ACS Nano</i> , 2014, 8, 8819-8830.	14.6	708
160	Reinforcement in melt-processed polymer-graphene composites at extremely low graphene loading level. <i>Carbon</i> , 2014, 78, 243-249.	10.3	136
161	On unsteady two-dimensional and axisymmetric squeezing flow between parallel plates. <i>AJ - Alexandria Engineering Journal</i> , 2014, 53, 463-468.	6.4	45
162	MHD FLOW OF AN INCOMPRESSIBLE FLUID THROUGH POROUS MEDIUM BETWEEN DILATING AND SQUEEZING PERMEABLE WALLS. <i>Journal of Porous Media</i> , 2014, 17, 861-867.	1.9	30

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163	Polymer reinforcement using liquid-exfoliated boron nitride nanosheets. <i>Nanoscale</i> , 2013, 5, 581-587.	5.6	181
164	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.	3.1	51
165	Photoconductivity of solution-processed MoS ₂ films. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6899.	5.5	99
166	Reinforcement of metal with liquid-exfoliated inorganic nano-platelets. <i>Applied Physics Letters</i> , 2013, 103, 163106.	3.3	14
167	Improving the mechanical properties of graphene oxide based materials by covalent attachment of polymer chains. <i>Carbon</i> , 2013, 52, 363-371.	10.3	232
168	Thermoelectric behavior of organic thin film nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 119-123.	2.1	111
169	Improved Adhesive Strength and Toughness of Polyvinyl Acetate Glue on Addition of Small Quantities of Graphene. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1423-1428.	8.0	112
170	Polymer Grafting to Single-Walled Carbon Nanotubes: Effect of Chain Length on Solubility, Graft Density and Mechanical Properties of Macroscopic Structures. <i>Small</i> , 2013, 9, 552-560.	10.0	42
171	Flexible, transparent dielectric capacitors with nanostructured electrodes. <i>Applied Physics Letters</i> , 2012, 101, 103106.	3.3	36
172	Approaching the theoretical limit for reinforcing polymers with graphene. <i>Journal of Materials Chemistry</i> , 2012, 22, 1278-1282.	6.7	161
173	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.	3.1	191
174	High strength composite fibres from polyester filled with nanotubes and graphene. <i>Journal of Materials Chemistry</i> , 2012, 22, 12907.	6.7	42
175	Preparation of High Concentration Dispersions of Exfoliated MoS ₂ with Increased Flake Size. <i>Chemistry of Materials</i> , 2012, 24, 2414-2421.	6.7	504
176	Size selection of dispersed, exfoliated graphene flakes by controlled centrifugation. <i>Carbon</i> , 2012, 50, 470-475.	10.3	272
177	Observation of mechanical percolation in functionalized graphene oxide/elastomer composites. <i>Carbon</i> , 2012, 50, 4489-4494.	10.3	68
178	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.	7.8	40
179	Solvent-Exfoliated Graphene at Extremely High Concentration. <i>Langmuir</i> , 2011, 27, 9077-9082.	3.5	308
180	Graphene Dispersion and Exfoliation in Low Boiling Point Solvents. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5422-5428.	3.1	440

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181	Two-Dimensional Nanosheets Produced by Liquid Exfoliation of Layered Materials. <i>Science</i> , 2011, 331, 568-571.	12.6	6,190
182	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.	6.7	82
183	Influence of hard segment content and nature on polyurethane/multiwalled carbon nanotube composites. <i>Composites Science and Technology</i> , 2011, 71, 1030-1038.	7.8	80
184	Tuning the Mechanical Properties of Composites from Elastomeric to Rigid Thermoplastic by Controlled Addition of Carbon Nanotubes. <i>Small</i> , 2011, 7, 1579-1586.	10.0	31
185	Large-scale Exfoliation of Inorganic Layered Compounds in Aqueous Surfactant Solutions. <i>Advanced Materials</i> , 2011, 23, 3944-3948.	21.0	1,012
186	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.	10.3	103
187	Development of stiff, strong, yet tough composites by the addition of solvent exfoliated graphene to polyurethane. <i>Carbon</i> , 2010, 48, 4035-4041.	10.3	270
188	High-Concentration Solvent Exfoliation of Graphene. <i>Small</i> , 2010, 6, 864-871.	10.0	908
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200	Thermal performance in nanofluid and hybrid nanofluid under the influence of mixed convection and viscous dissipation: numerical investigation. Waves in Random and Complex Media, 0, , 1-19.	2.7	3
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