Irfan Anjum Badruddin

List of Publications by Year in descending order

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242 papers

10,621 citations

51 h-index 38368

g-index

95

244 all docs 244 docs citations

times ranked

244

6538 citing authors

#	Article	IF	Citations
1	A comprehensive review on biodiesel as an alternative energy resource and its characteristics. Renewable and Sustainable Energy Reviews, 2012, 16, 2070-2093.	8.2	1,383
2	Non-edible vegetable oils: A critical evaluation of oil extraction, fatty acid compositions, biodiesel production, characteristics, engine performance and emissions production. Renewable and Sustainable Energy Reviews, 2013, 18, 211-245.	8.2	953
3	The effect of nano-additives in diesel-biodiesel fuel blends: A comprehensive review on stability, engine performance and emission characteristics. Energy Conversion and Management, 2018, 178, 146-177.	4.4	362
4	A review on prospect of Jatropha curcas for biodiesel in Indonesia. Renewable and Sustainable Energy Reviews, 2011, 15, 3733-3756.	8.2	266
5	A review on thermal cycling and drop impact reliability of SAC solder joint in portable electronic products. Microelectronics Reliability, 2012, 52, 90-99.	0.9	205
6	Microalgae biomass as a sustainable source for biofuel, biochemical and biobased value-added products: An integrated biorefinery concept. Fuel, 2022, 307, 121782.	3.4	190
7	A review on global fuel economy standards, labels and technologies in the transportation sector. Renewable and Sustainable Energy Reviews, 2011, 15, 4586-4610.	8.2	176
8	A comparative evaluation of physical and chemical properties of biodiesel synthesized from edible and non-edible oils and study on the effect of biodiesel blending. Energy, 2013, 58, 296-304.	4.5	164
9	The effects of graphene oxide nanoparticle additive stably dispersed in dairy scum oil biodiesel-diesel fuel blend on CI engine: performance, emission and combustion characteristics. Fuel, 2019, 257, 116015.	3.4	152
10	Progress and challenges of contaminate removal from wastewater using microalgae biomass. Chemosphere, 2022, 286, 131656.	4.2	147
11	Recent scenario and technologies to utilize non-edible oils for biodiesel production. Renewable and Sustainable Energy Reviews, 2014, 37, 840-851.	8.2	142
12	Effect of Sr@ZnO nanoparticles and Ricinus communis biodiesel-diesel fuel blends on modified CRDI diesel engine characteristics. Energy, 2021, 215, 119094.	4.5	141
13	An investigation on the influence of aluminium oxide nano-additive and honge oil methyl ester on engine performance, combustion and emission characteristics. Renewable Energy, 2020, 146, 2291-2307.	4.3	140
14	Numerical analysis of convection conduction and radiation using a non-equilibrium model in a square porous cavity. International Journal of Thermal Sciences, 2007, 46, 20-29.	2.6	138
15	Thermal non-equilibrium modeling of heat transfer through vertical annulus embedded with porous medium. International Journal of Heat and Mass Transfer, 2006, 49, 4955-4965.	2.5	130
16	Effect of viscous dissipation and radiation on natural convection in a porous medium embedded within vertical annulus. International Journal of Thermal Sciences, 2007, 46, 221-227.	2.6	127
17	Study of mixed convection in an annular vertical cylinder filled with saturated porous medium, using thermal non-equilibrium model. International Journal of Heat and Mass Transfer, 2011, 54, 3822-3825.	2.5	126
18	Investigation of physical and chemical properties of potential edible and non-edible feedstocks for biodiesel production, a comparative analysis. Renewable and Sustainable Energy Reviews, 2013, 21, 749-755.	8.2	123

#	Article	IF	Citations
19	Heat transfer in a conical cylinder with porous medium. International Journal of Heat and Mass Transfer, 2009, 52, 3070-3078.	2.5	117
20	Investigation of heat transfer in square porous-annulus. International Journal of Heat and Mass Transfer, 2012, 55, 2184-2192.	2.5	116
21	Heat transfer by radiation and natural convection through a vertical annulus embedded in porous medium. International Communications in Heat and Mass Transfer, 2006, 33, 500-507.	2.9	113
22	Natural convection in a square porous annulus. International Journal of Heat and Mass Transfer, 2012, 55, 7175-7187.	2.5	113
23	Heat transfer in porous cavity under the influence of radiation and viscous dissipation. International Communications in Heat and Mass Transfer, 2006, 33, 491-499.	2.9	112
24	Analysis of Heat and Mass Transfer in a Vertical Annular Porous Cylinder Using FEM. Transport in Porous Media, 2012, 91, 697-715.	1.2	104
25	Topology optimization: a review for structural designs under vibration problems. Structural and Multidisciplinary Optimization, 2016, 53, 1157-1177.	1.7	101
26	Conjugate Heat Transfer in an Annulus with Porous Medium Fixed Between Solids. Transport in Porous Media, 2015, 109, 589-608.	1.2	100
27	A review of numerical studies on solar collectors integrated with latent heat storage systems employing fins or nanoparticles. Renewable Energy, 2018, 118, 761-778.	4.3	100
28	Free convection and radiation for a vertical wall with varying temperature embedded in a porous medium. International Journal of Thermal Sciences, 2006, 45, 487-493.	2.6	97
29	Experimental study and evaluation of single slope solar still combined with flat plate collector, parabolic trough and packed bed. Solar Energy, 2020, 196, 358-366.	2.9	91
30	Free convection and radiation characteristics for a vertical plate embedded in a porous medium. International Journal for Numerical Methods in Engineering, 2006, 65, 2265-2278.	1.5	88
31	High-Reliability Low-Ag-Content Sn-Ag-Cu Solder Joints for Electronics Applications. Journal of Electronic Materials, 2012, 41, 2631-2658.	1.0	84
32	A state-of-the-art review on hybrid heat pipe latent heat storage systems. Energy Conversion and Management, 2015, 105, 1178-1204.	4.4	84
33	Effect of Zinc Oxide Nano-Additives and Soybean Biodiesel at Varying Loads and Compression Ratios on VCR Diesel Engine Characteristics. Symmetry, 2020, 12, 1042.	1.1	79
34	Theoretical model of an evacuated tube heat pipe solar collector integrated with phase change material. Energy, 2015, 91, 911-924.	4.5	78
35	Simplified finite element algorithm to solve conjugate heat and mass transfer in porous medium. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 2481-2507.	1.6	78
36	Effect of injection parameters and producer gas derived from redgram stalk on the performance and emission characteristics of a diesel engine. AEJ - Alexandria Engineering Journal, 2021, 60, 3133-3142.	3.4	78

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37	Enhancement in Combustion, Performance, and Emission Characteristics of a Diesel Engine Fueled with Ce-ZnO Nanoparticle Additive Added to Soybean Biodiesel Blends. Energies, 2020, 13, 4578.	1.6	76
38	CONJUGATE HEAT TRANSFER IN POROUS ANNULUS. Journal of Porous Media, 2014, 17, 1109-1119.	1.0	69
39	A review of heating/cooling processes using nanomaterials suspended in refrigerants and lubricants. International Journal of Heat and Mass Transfer, 2020, 153, 119611.	2.5	67
40	Effect of variable heating on double diffusive flow in a square porous cavity. AIP Conference Proceedings, 2016, , .	0.3	66
41	Influence of radiation on double conjugate diffusion in a porous cavity. AIP Conference Proceedings, 2016, , .	0.3	65
42	Microstructure, mechanical, and thermal properties of the Sn–1Ag–0.5Cu solder alloy bearing Fe for electronics applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 551, 160-168.	2.6	62
43	Dufour and Soret Effects on Square Porous Annulus. Advances in Mechanical Engineering, 2014, 6, 209753.	0.8	62
44	Heat transfer in porous medium embedded with vertical plate: Non-equilibrium approach - Part B. AlP Conference Proceedings, $2016, \ldots$	0.3	62
45	Heat and mass transfer in porous cavity: Assisting flow. AIP Conference Proceedings, 2016, , .	0.3	61
46	Radiation and viscous dissipation effect on square porous annulus. AIP Conference Proceedings, 2016,	0.3	60
47	Thermal performance of a compact design heat pipe solar collector with latent heat storage in charging/discharging modes. Energy, 2017, 127, 101-115.	4.5	60
48	Heat transfer in porous medium embedded with vertical plate: Non-equilibrium approach - Part A. AIP Conference Proceedings, $2016, \ldots$	0.3	58
49	An analytical and comparative study of the charging and discharging processes in a latent heat thermal storage tank for solar water heater system. Solar Energy, 2019, 185, 424-438.	2.9	58
50	Ceiba pentandra , Nigella sativa and their blend as prospective feedstocks for biodiesel. Industrial Crops and Products, 2015, 65, 367-373.	2.5	56
51	Effect of Croton megalocarpus, Calophyllum inophyllum, Moringa oleifera, palm and coconut biodiesel–diesel blending on their physico-chemical properties. Industrial Crops and Products, 2014, 60, 130-137.	2.5	54
52	Experimental investigation of the performance of a triple concentric pipe heat exchanger. International Journal of Heat and Mass Transfer, 2013, 62, 562-566.	2.5	52
53	Microstructural stability of Sn–1Ag–0.5Cu–xAl (x=1, 1.5, and 2wt.%) solder alloys and the effects of high-temperature aging on their mechanical properties. Materials Characterization, 2013, 78, 129-143.	1.9	52
54	Investigation on the effect of cottonseed oil blended with different percentages of octanol and suspended MWCNT nanoparticles on diesel engine characteristics. Journal of Thermal Analysis and Calorimetry, 2022, 147, 525-542.	2.0	51

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55	Human thermal comfort in passenger vehicles using an organic phase change material– an experimental investigation, neural network modelling, and optimization. Building and Environment, 2020, 180, 107012.	3.0	49
56	A review on effect of minor alloying elements on thermal cycling and drop impact reliability of lowâ€Ag Snâ€Agâ€Cu solder joints. Microelectronics International, 2012, 29, 47-57.	0.4	48
57	The effect of iron and bismuth addition on the microstructural, mechanical, and thermal properties of Sn–1Ag–0.5Cu solder alloy. Microelectronics Reliability, 2015, 55, 1886-1890.	0.9	48
58	Computational fluid dynamics modelling of human upper airway: A review. Computer Methods and Programs in Biomedicine, 2020, 196, 105627.	2.6	48
59	Effect of Ag Content and the Minor Alloying Element Fe on the Mechanical Properties and Microstructural Stability of Sn-Ag-Cu Solder Alloy Under High-Temperature Annealing. Journal of Electronic Materials, 2013, 42, 470-484.	1.0	47
60	Pangium edule Reinw: A Promising Non-edible Oil Feedstock for Biodiesel Production. Arabian Journal for Science and Engineering, 2015, 40, 583-594.	1.1	47
61	Heat transfer in a conical porous cylinder with partial heating. IOP Conference Series: Materials Science and Engineering, 2016, 149, 012211.	0.3	47
62	Conjugate Heat and Mass Transfer in a Vertical Porous Cylinder. Journal of Thermophysics and Heat Transfer, 2019, 33, 548-558.	0.9	44
63	An Overview of Biodiesel Production via Calcium Oxide Based Catalysts: Current State and Perspective. Energies, 2021, 14, 3950.	1.6	44
64	Investigation of heat transfer in irregular porous cavity subjected to various boundary conditions. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 418-447.	1.6	43
65	Airflow analysis in an air conditioning room. Building and Environment, 2007, 42, 1531-1537.	3.0	42
66	Two-phase frictional pressure drop with pure refrigerants in vertical mini/micro-channels. Case Studies in Thermal Engineering, 2021, 23, 100824.	2.8	42
67	Novel Fe-containing Sn–1Ag–0.5Cu lead-free solder alloy with further enhanced elastic compliance and plastic energy dissipation ability for mobile products. Microelectronics Reliability, 2012, 52, 2701-2708.	0.9	41
68	Numerical investigation of the performance of a triple concentric pipe heat exchanger. International Journal of Heat and Mass Transfer, 2014, 75, 165-172.	2.5	41
69	Heat transfer analysis in an annular cone subjected to power law variations. IOP Conference Series: Materials Science and Engineering, 2016, 149, 012212.	0.3	41
70	Investigation of heat transfer due to isothermal heater in irregular porous cavity: Part I. AIP Conference Proceedings, 2017, , .	0.3	40
71	Heat transfer in a porous cavity in presence of square solid block. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 640-656.	1.6	39
72	Improving the diesel engine performance, emissions and combustion characteristics using biodiesel with carbon nanomaterials. Fuel, 2021, 288, 119665.	3.4	39

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73	A state-of-the-art review on spent coffee ground (SCG) pyrolysis for future biorefinery. Chemosphere, 2022, 286, 131730.	4.2	39
74	Double diffusion in arbitrary porous cavity: Part I. AIP Conference Proceedings, 2017, , .	0.3	36
75	Heat transfer prediction in a square porous medium using artificial neural network. AIP Conference Proceedings, 2018, , .	0.3	36
76	Fem Formulation of Coupled Partial Differential Equations for Heat Transfer. IOP Conference Series: Materials Science and Engineering, 2017, 225, 012023.	0.3	35
77	Fuel Properties of <i>Croton megalocarpus</i> , <i>Calophyllum inophyllum</i> , and <i>Cocos nucifera</i> (coconut) Methyl Esters and their Performance in a Multicylinder Diesel Engine. Energy Technology, 2013, 1, 685-694.	1.8	34
78	Heat Transfer in an L Shaped Porous Medium using FEM. IOP Conference Series: Materials Science and Engineering, 2017, 225, 012012.	0.3	34
79	Heat and Mass Transfer with Soret/Dufour Effect in Irregular Porous Cavity. Journal of Thermophysics and Heat Transfer, 2019, 33, 647-662.	0.9	34
80	Fem Formulation for Heat and Mass Transfer in Porous Medium. IOP Conference Series: Materials Science and Engineering, 2017, 225, 012022.	0.3	33
81	Conductive Polymers and Their Nanocomposites as Adsorbents in Environmental Applications. Polymers, 2021, 13, 3810.	2.0	33
82	Application of artificial neural network for heat transfer in porous cone. AIP Conference Proceedings, 2018, , .	0.3	32
83	A comprehensive review of heat transfer intensification methods for latent heat storage units. Energy Storage, 2021, 3, e127.	2.3	32
84	A study of production and characterization of Manketti (Ricinodendron rautonemii) methyl ester and its blends as a potential biodiesel feedstock. Biofuel Research Journal, 0, , 139-146.	7.2	32
85	Heat transfer and fouling deposition investigation on the titanium coated heat exchanger surface. Powder Technology, 2020, 373, 671-680.	2.1	31
86	Mechanical and Abrasive Wear Performance of Titanium Di-Oxide Filled Woven Glass Fibre Reinforced Polymer Composites by Using Taguchi and EDAS Approach. Materials, 2021, 14, 5257.	1.3	31
87	Lipid Extraction Maximization and Enzymatic Synthesis of Biodiesel from Microalgae. Applied Sciences (Switzerland), 2020, 10, 6103.	1.3	30
88	Effects of engine variables and heat transfer on the performance of biodiesel fueled IC engines. Renewable and Sustainable Energy Reviews, 2015, 44, 682-691.	8.2	28
89	Optical properties and thermal stability evaluation of solar absorbers enhanced by nanostructured selective coating films. Powder Technology, 2021, 377, 939-957.	2.1	28
90	Mechanical Properties of PC-ABS-Based Graphene-Reinforced Polymer Nanocomposites Fabricated by FDM Process. Polymers, 2021, 13, 2951.	2.0	28

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91	Effect of porous media of the stenosed artery wall to the coronary physiological diagnostic parameter: A computational fluid dynamic analysis. Atherosclerosis, 2014, 233, 630-635.	0.4	26
92	Biodiesel Production by Direct Transesterification Process via Sequential Use of Acid–Base Catalysis. Arabian Journal for Science and Engineering, 2018, 43, 5929-5936.	1.7	26
93	Ultrasonic assisted new Al2O3@TiO2-ZnO/DW ternary composites nanofluids for enhanced energy transportation in a closed horizontal circular flow passage. International Communications in Heat and Mass Transfer, 2021, 120, 105018.	2.9	26
94	Study on coarsening of Ag3Sn intermetallic compound in the Fe-modified Sn–1Ag–0.5Cu solder alloys. Journal of Alloys and Compounds, 2015, 622, 184-188.	2.8	25
95	Microstructure and Tensile Properties of Sn-1Ag-0.5Cu Solder Alloy Bearing Al for Electronics Applications. Journal of Electronic Materials, 2012, 41, 2073-2082.	1.0	24
96	Evaluation of functional severity of coronary artery disease and fluid dynamics' influence on hemodynamic parameters: A review. Physica Medica, 2013, 29, 225-232.	0.4	24
97	Effects of aging on Sn–1Ag–0.5Cu solder alloys containing 0.1wt.% and 0.5wt.% Al. Journal of Alloys and Compounds, 2014, 582, 437-446.	2.8	24
98	Evaluation of Municipal Solid Wastes Based Energy Potential in Urban Pakistan. Processes, 2019, 7, 848.	1.3	24
99	Finite element analysis of immature teeth filled with MTA, Biodentine and Bioaggregate. Computer Methods and Programs in Biomedicine, 2020, 190, 105356.	2.6	23
100	Numerical Investigation of the Effect of Stenosis Geometry on the Coronary Diagnostic Parameters. Scientific World Journal, The, 2014, 2014, 1-7.	0.8	22
101	Patient-specific 3D hemodynamics modelling of left coronary artery under hyperemic conditions. Medical and Biological Engineering and Computing, 2017, 55, 1451-1461.	1.6	22
102	Extraction of Cellulose Nano-Whiskers Using Ionic Liquid-Assisted Ultra-Sonication: Optimization and Mathematical Modelling Using Box–Behnken Design. Symmetry, 2019, 11, 1148.	1.1	22
103	Green and ecofriendly synthesis of cobalt oxide nanoparticles using Phoenix dactylifera L: antimicrobial and photocatalytic activity. Applied Nanoscience (Switzerland), 2023, 13, 1367-1375.	1.6	22
104	Heat transfer in steady slip flow of tangent hyperbolic fluid over the lubricated surface of a stretchable rotatory disk. Case Studies in Thermal Engineering, 2021, 24, 100825.	2.8	21
105	MHD and nonlinear thermal radiation effects on hybrid nanofluid past a wedge with heat source and entropy generation. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, 32, 120-137.	1.6	21
106	Merits and Limitations of Mathematical Modeling and Computational Simulations in Mitigation of COVID-19 Pandemic: A Comprehensive Review. Archives of Computational Methods in Engineering, 2022, 29, 1311-1337.	6.0	21
107	The bulk alloy microstructure and mechanical properties of Sn–1Ag–0.5Cu–xAl solders (xÂ=Â0, 0.1 and) Tj	j ETQq1 1	0.784314 rgf
108	Heat Transfer in Porous Media: A Mini Review. Materials Today: Proceedings, 2020, 24, 1318-1321.	0.9	19

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109	Enhancement of thermoelectric properties of Co4Sb12 Skutterudite by Al and La double filling. Journal of Solid State Chemistry, 2020, 284, 121205.	1.4	19
110	Thermo hydraulic performance analysis of a shell-and-double concentric tube heat exchanger using CFD. International Journal of Heat and Mass Transfer, 2017, 105, 781-798.	2.5	18
111	Influence of stenosis on hemodynamic parameters in the realistic left coronary artery under hyperemic conditions. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 365-372.	0.9	18
112	Finite element solution strategy for viscous dissipation in porous medium. AIP Conference Proceedings, 2019, , .	0.3	18
113	Drug Leaching Properties of Vancomycin Loaded Mesoporous Hydroxyapatite as Bone Substitutes. Processes, 2019, 7, 826.	1.3	18
114	Partial heating at lower section of annulus subjected to conjugate heat transfer in porous annulus. AIP Conference Proceedings, 2019, , .	0.3	17
115	Heat and mass transfer with viscous dissipation in porous medium: FEM based methodology. AIP Conference Proceedings, 2019, , .	0.3	17
116	A review of fluid-structure interaction simulation for patients with sleep related breathing disorders with obstructive sleep. Computer Methods and Programs in Biomedicine, 2019, 180, 105036.	2.6	16
117	Conjugate heat transfer due to partial isothermal heating at center of annuls with two solids in porous annulus: Part I. AIP Conference Proceedings, 2019, , .	0.3	16
118	Partial heating at upper section of annulus subjected to conjugate heat transfer in porous annulus. AIP Conference Proceedings, 2019, , .	0.3	16
119	Numerical investigation on the thermohydraulic performance of a shell-and-double concentric tube heat exchanger using nanofluid under the turbulent flow regime. Numerical Heat Transfer; Part A: Applications, 2017, 71, 215-231.	1.2	15
120	Dispersion and Attenuation Characteristics of Love-Type Waves in a Fiber-Reinforced Composite over a Viscoelastic Substrate. Physics of Wave Phenomena, 2019, 27, 281-289.	0.3	15
121	Exploring E-Waste Resources Recovery in Household Solid Waste Recycling. Processes, 2020, 8, 1047.	1.3	15
122	Bioenergy recovery potential through the treatment of the meat processing industry waste in Australia. Journal of Environmental Chemical Engineering, 2021, 9, 105657.	3.3	15
123	Investigation of Mechanical Properties and Salt Spray Corrosion Test Parameters Optimization for AA8079 with Reinforcement of TiN + ZrO2. Materials, 2021, 14, 5260.	1.3	15
124	Noise characteristics of grass-trimming machine engines and their effect on operators. Noise and Health, 2009, 11 , 98.	0.4	14
125	Numerical Analysis of Thermal Non-Equilibrium in Porous Medium Subjected to Internal Heating. Mathematics, 2019, 7, 1085.	1.1	14
126	Leverage of Environmental Pollutant Crump Rubber on the Dry Sliding Wear Response of Epoxy Composites. Polymers, 2021, 13, 2894.	2.0	14

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127	The Influence of Geometrical Shapes of Stenosis on the Blood Flow in Stenosed Artery. Sains Malaysiana, 2017, 46, 1923-1933.	0.3	14
128	Biogenesis of Silver Nanoparticles and Its Multifunctional Anti-Corrosion and Anticancer Studies. Coatings, 2021, 11, 1215.	1.2	14
129	The influence of artery wall curvature on the anatomical assessment of stenosis severity derived from fractional flow reserve: a computational fluid dynamics study. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 1541-1549.	0.9	13
130	Wear resistance of maraging steel developed by direct metal laser sintering. Materials Express, 2020, 10, 1079-1090.	0.2	13
131	Emerging potential of spent coffee ground valorization for fuel pellet production in a biorefinery. Environment, Development and Sustainability, 2023, 25, 7585-7623.	2.7	13
132	The bulk alloy microstructure and tensile properties of Snâ€1Agâ€0.5Cuâ€xAl leadâ€free solder alloys (x=0, 1,) T	j EŢ <u>Q</u> q0 0	0 rgBT /Overl
133	Effects of Fe and Bi Minor Alloying on Mechanical, Thermal, and Microstructural Properties of Sn-0.7Cu Solder Alloy. Journal of Electronic Materials, 2016, 45, 3673-3682.	1.0	12
134	Application of the Combined ANN and GA for Multi-Response Optimization of Cutting Parameters for the Turning of Glass Fiber-Reinforced Polymer Composites. Mathematics, 2020, 8, 947.	1.1	12
135	An experimental investigation of eco-friendly treated GNP heat transfer growth: circular and square conduit comparison. Journal of Thermal Analysis and Calorimetry, 2021, 145, 139-151.	2.0	12
136	Analysis of the Effect of Parameters on Fracture Toughness of Hemp Fiber Reinforced Hybrid Composites Using the ANOVA Method. Polymers, 2021, 13, 3013.	2.0	12
137	Green synthesis of titanium dioxide nanoparticles using Laurus nobilis (bay leaf): antioxidant and antimicrobial activities. Applied Nanoscience (Switzerland), 2023, 13, 1477-1484.	1.6	12
138	In-Depth Thermal, Microstructural and Photoluminescence Analysis of Mesoporous ZnO/ZnAl ₂ O ₄ -MMO: The Effect of Molar Ratio. ECS Journal of Solid State Science and Technology, 2021, 10, 106006.	0.9	12
139	Hierarchical congregated ant system for bottom-up VLSI placements. Engineering Applications of Artificial Intelligence, 2013, 26, 584-602.	4.3	11
140	Patient specific 3-d modeling of blood flow in a multi-stenosed left coronary artery. Bio-Medical Materials and Engineering, 2017, 28, 257-266.	0.4	11
141	Novel Approach to Manufacture an AUV Propeller by Additive Manufacturing and Error Analysis. Applied Sciences (Switzerland), 2019, 9, 4413.	1.3	11
142	Optimising Parameters for Expanded Polystyrene Based Pod Production Using Taguchi Method. Mathematics, 2019, 7, 847.	1.1	11
143	Multi-Response Optimization of Nanofluid-Based I. C. Engine Cooling System Using Fuzzy PIV Method. Processes, 2020, 8, 30.	1.3	11
144	Multi-Scale Study on Mechanical Property and Strength of New Green Sand (Poly Lactic Acid) as Replacement of Fine Aggregate in Concrete Mix. Symmetry, 2020, 12, 1823.	1.1	11

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145	Finite element formulation of conjugate double diffusion in porous annulus. AIP Conference Proceedings, 2020, , .	0.3	11
146	The potential of nanoparticle additives in biodiesel: A fundamental outset. AIP Conference Proceedings, 2020, , .	0.3	10
147	Two-Phase Non-Newtonian Pulsatile Blood Flow Simulations in a Rigid and Flexible Patient-Specific Left Coronary Artery (LCA) Exhibiting Multi-Stenosis. Applied Sciences (Switzerland), 2021, 11, 11361.	1.3	10
148	Experimental investigation of the impact of CeO2 nanoparticles in Jet-A and Jatropha-SPK blended fuel in an aircraft can-combustor at flight conditions. Fuel, 2022, 317, 123393.	3.4	10
149	Effects of non-linear radiation and chemical reaction on Oldroydâ€B nanofluid near oblique stagnation point flow. Chinese Journal of Physics, 2022, 77, 1197-1208.	2.0	10
150	Discrete heating of opposing mixed convection heated at bottom of annulus. AIP Conference Proceedings, 2019, , .	0.3	9
151	Fabrication and Physicochemical Study of B2SA-Grafted Poly(vinyl Alcohol)–Graphene Hybrid Membranes for Dehydration of Bioethanol by Pervaporation. Membranes, 2021, 11, 110.	1.4	9
152	Electromagnetic Characterization of a Multiwalled Carbon Nanotubes–Silver Nanoparticles-Reinforced Polyvinyl Alcohol Hybrid Nanocomposite in X-Band Frequency. ACS Omega, 2021, 6, 4184-4191.	1.6	9
153	Effect of Injection Timing and Injection Duration of Manifold Injected Fuels in Reactivity Controlled Compression Ignition Engine Operated with Renewable Fuels. Energies, 2021, 14, 4621.	1.6	9
154	Development and Characterization of Biocompatible Membranes from Natural Chitosan and Gelatin for Pervaporative Separation of Water–Isopropanol Mixture. Polymers, 2021, 13, 2868.	2.0	9
155	Significance low oscillating magnetic field and Hall current in the nano-ferrofluid flow past a rotating stretchable disk. Scientific Reports, 2021, 11, 23204.	1.6	9
156	Sliding behavior of droplet on a hydrophobic surface with hydrophilic cavities: A simulation study. Physics of Fluids, 2018, 30, 122006.	1.6	8
157	Effect of stenosis on hemodynamics in left coronary artery based on patient-specific CT scan. Bio-Medical Materials and Engineering, 2019, 30, 463-473.	0.4	8
158	Analysis of digital light synthesis based flexible and rigid polyurethane for applications in automobile bumpers. Materials Express, 2019, 9, 839-850.	0.2	8
159	A simulation-based study on the effect of underwater friction stir welding process parameters using different evolutionary optimization algorithms. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 643-657.	1.1	8
160	Investigating the Dimensional Accuracy of the Cavity Produced by ABS P400 Polymer-Based Novel EDM Electrode. Polymers, 2021, 13, 4109.	2.0	8
161	Surface Functionalization of Magnetite Nanoparticles with Multipotent Antioxidant as Potential Magnetic Nanoantioxidants and Antimicrobial Agents. Molecules, 2022, 27, 789.	1.7	8
162	Desalination technology for energy-efficient and low-cost water production: A bibliometric analysis. Green Processing and Synthesis, 2022, 11, 306-315.	1.3	8

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163	Investigation of Self-Healing Mortars with and without Bagasse Ash at Pre- and Post-Crack Times. Materials, 2022, 15, 1650.	1.3	8
164	Nanoceramic Composites for Nuclear Radiation Attenuation. Materials, 2022, 15, 262.	1.3	8
165	On numerical analysis of hydromagnetic radiative Jeffery nanofluid flow by variable thickness surface with activation energy and unsteadiness aspects. Waves in Random and Complex Media, 0, , 1-19.	1.6	8
166	Production of honge oil methyl ester (HOME) and its performance test on four stroke single cylinder VCR engine. AIP Conference Proceedings, 2019, , .	0.3	7
167	Thermal Non-equilibrium in Porous Annulus: A New Finite Element Solution Technique. Arabian Journal for Science and Engineering, 2020, 45, 1279-1292.	1.7	7
168	Finite element formulation of conjugate heat transfer in porous annulus. AIP Conference Proceedings, 2020, , .	0.3	7
169	An experimental-based artificial neural network performance study of common rail direct injection engine run on plastic pyrolysis oil. International Journal of Sustainable Engineering, 2021, 14, 137-146.	1.9	7
170	Investigation of Coronavirus Deposition in Realistic Human Nasal Cavity and Impact of Social Distancing to Contain COVID-19: A Computational Fluid Dynamic Approach. CMES - Computer Modeling in Engineering and Sciences, 2020, 125, 1185-1199.	0.8	7
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