

Elango Natarajan

List of Publications by Year in descending order

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76
papers

1,160
citations

361413
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79
all docs

79
docs citations

79
times ranked

712
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and numerical analysis on suitability of S-Glass-Carbon fiber reinforced polymer composites for submarine hull. Defence Technology, 2023, 19, 1-11.	4.2	8
2	Polyoxymethylene/talc composite: Investigation of warpage, mechanical and thermal properties for thin walledâ€injection molding applications. Journal of Applied Polymer Science, 2022, 139, 51762.	2.6	4
3	Evaluation of a Suitable Material for Soft Actuator Through Experiments and FE Simulations. , 2022, , 339-353.		0
4	Optimal Training of Feedforward Neural Networks Using Teaching-Learning-Based Optimization with Modified Learning Phases. Lecture Notes in Electrical Engineering, 2022, , 867-887.	0.4	10
5	Hybrid Deep Learning Model for Fault Detection and Classification of Grid-Connected Photovoltaic System. IEEE Access, 2022, 10, 13852-13869.	4.2	25
6	Enhanced Thermal Stability, Mechanical Properties and Structural Integrity of MWCNT Filled Bamboo/Kenaf Hybrid Polymer Nanocomposites. Materials, 2022, 15, 506.	2.9	31
7	Production Wastage Avoidance Using Modified Multi-Objective Teaching Learning Based Optimization Embedded With Refined Learning Scheme. IEEE Access, 2022, 10, 19186-19214.	4.2	9
8	Mechanical and wear behaviour of PEEK, PTFE and PU: review and experimental study. Journal of Polymer Engineering, 2022, 42, 407-417.	1.4	5
9	PTFE in Wet and Dry Drilling: Two-Tier Modeling and Optimization through ANFIS. Mathematical Problems in Engineering, 2022, 2022, 1-10.	1.1	4
10	Gorilla Troops Optimizer Combined with ANFIS for Wire Cut EDM of Aluminum Alloy. Advances in Materials Science and Engineering, 2022, 2022, 1-14.	1.8	6
11	Performance Analysis of Nano Silicon Carbide Reinforced Swept Friction Stir Spot Weld Joint in AA6061-T6 Alloy. Silicon, 2021, 13, 3399-3412.	3.3	26
12	Crystallinity Change and Reduced Warpages on Thin Walled Parts-the Effect of Nano Fumed Silica on Polyacetal. Silicon, 2021, 13, 4611-4622.	3.3	4
13	Evaluation of mechanical properties of coconut flower cover fibre-reinforced polymer composites for industrial applications. Progress in Rubber, Plastics and Recycling Technology, 2021, 37, 3-18.	1.8	28
14	Mechanical integrity of PEEK bone plate in internal fixation of femur: experimental and finite element analysis towards performance measurement. International Journal of Enterprise Network Management, 2021, 12, 17.	0.3	2
15	The hydrodynamic behaviour of biologically inspired bristled shark skin vortex generator in submarine. Materials Today: Proceedings, 2021, 46, 3945-3950.	1.8	8
16	Implications on the influence of mica on the mechanical properties of cast hybrid (Al+10%B4C+Mica) metal matrix composite. Journal of Materials Research and Technology, 2021, 10, 99-109.	5.8	38
17	Smart Manufacturingâ€”A Lead Way to Sustainable Manufacturing. Materials Forming, Machining and Tribology, 2021, , 1-7.	1.1	2
18	Modeling of multiwall carbon nanotubes reinforced natural rubber for soft robotic applications â€” A comprehensive presentation. Materials Today: Proceedings, 2021, 46, 3251-3258.	1.8	9

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19	The functionalization of the electrospun PLLA fibrous scaffolds reduces the hydrogen peroxide induced cytokines secretion in vitro. <i>Materials Today Communications</i> , 2021, 26, 101812.	1.9	5
20	Analysis of Potential Project Work Accidents: A Case Study of a Construction Project in Malaysia. , 2021, , .		1
21	Assessments of Process Parameters on Cutting Force and Surface Roughness during Drilling of AA7075/TiB2 In Situ Composite. <i>Materials</i> , 2021, 14, 1726.	2.9	16
22	E-Glass/phenolic matrix/APP laminate as a potential candidate for battery casing of e-vehicle - experimental investigations. <i>Materials Research Express</i> , 2021, 8, 045310.	1.6	16
23	Effects of bone-plate materials on the healing process of fractured tibia bone under time-varying conditions: a finite element analysis. <i>Materials Research Express</i> , 2021, 8, 095308.	1.6	7
24	Mechanical integrity of PEEK bone plate in internal fixation of femur: experimental and finite element analysis towards performance measurement. <i>International Journal of Enterprise Network Management</i> , 2021, 12, 17.	0.3	3
25	A Hybridized Pre-Processing Method for Detecting Tuberculosis using Deep Learning. , 2021, , .		2
26	Drilling Parameters Analysis on In-Situ Al/B4C/Mica Hybrid Composite and an Integrated Optimization Approach Using Fuzzy Model and Non-Dominated Sorting Genetic Algorithm. <i>Metals</i> , 2021, 11, 2060.	2.3	24
27	Influence of tool rotational speed on the properties of friction stir spot welded AA7075-T6/Al2O3 composite joint. <i>Materials Today: Proceedings</i> , 2020, 27, 62-67.	1.8	20
28	Non-dominated sorting modified teachingâ€“learning-based optimization for multi-objective machining of polytetrafluoroethylene (PTFE). <i>Journal of Intelligent Manufacturing</i> , 2020, 31, 911-935.	7.3	44
29	Development of Rheumatoid Arthritis Classification from Electronic Image Sensor Using Ensemble Method. <i>Sensors</i> , 2020, 20, 167.	3.8	25
30	Sustainable friction stir spot welding of 6061-T6 aluminium alloy using improved non-dominated sorting teaching learning algorithm. <i>Journal of Materials Research and Technology</i> , 2020, 9, 11650-11674.	5.8	41
31	Evaluation of a Suitable Material for Soft Actuator Through Experiments and FE Simulations. <i>International Journal of Manufacturing, Materials, and Mechanical Engineering</i> , 2020, 10, 64-76.	0.4	4
32	Influence of Feeding Techniques in Bottom Tapping Stir Casting Process for Fabrication of Alumina Nano-filler-reinforced Aluminium Composites. <i>Transactions of the Indian Institute of Metals</i> , 2020, 73, 1265-1272.	1.5	10
33	A Constrained Teaching-learning-based Optimization with Modified Learning Phases for Constrained Optimization. <i>Journal of Advanced Research in Dynamical and Control Systems</i> , 2020, 12, 1442-1456.	0.2	4
34	Optimum Control Parameters During Machining of LM13 Aluminum Alloy Under Dry Electrical Discharge Machining (EDM) With A Modified Tool Design. <i>Medziagotyra</i> , 2019, 25, 407-412.	0.2	7
35	Measurement of range of motions of L3-L4 healthy spine through offsetting reflective markers and in silico analysis of meshed model. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 2305-2318.	2.8	5
36	Structural and modal Analysis of Scooter Frame for Design Improvement. <i>Materials Today: Proceedings</i> , 2019, 16, 1106-1116.	1.8	13

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37	Compression after Impact Behaviour and Failure Analysis of Nanosilica-Toughened Thin Epoxy/GFRP Composite Laminates. <i>Materials</i> , 2019, 12, 3057.	2.9	16
38	Prediction of surface quality and optimization of process parameters in drilling of Delrin using neural network. <i>Progress in Rubber, Plastics and Recycling Technology</i> , 2019, 35, 149-169.	1.8	27
39	Effect of Chitosan Nanoparticle-Loaded <i>Thymus serpyllum</i> on Hydrogen Peroxide-Induced Bone Marrow Stromal Cell Damage. <i>Stem Cells International</i> , 2019, 2019, 1-12.	2.5	3
40	Magnetic, thermal stability and dynamic mechanical properties of beta isotactic polypropylene/natural rubber blends reinforced by NiZn ferrite nanoparticles. <i>Defence Technology</i> , 2019, 15, 958-963.	4.2	18
41	Dynamic Analysis of Compliant LEG of a Stewart-Gough Type Parallel Mechanism. , 2019, , .		2
42	Classification of Rheumatoid Arthritis using Machine Learning Algorithms. , 2019, , .		9
43	Design Topology Optimization and Kinematics of a Multi-Modal Quadcopter and Quadrupe. , 2019, , .		4
44	A review on graph search algorithms for optimal energy efficient path planning for an unmanned air vehicle. <i>Indonesian Journal of Electrical Engineering and Computer Science</i> , 2019, 15, 743.	0.8	24
45	Evaluating weld properties of conventional and swept friction stir spot welded 6061-T6 aluminium alloy. <i>Materials Express</i> , 2019, 9, 851-860.	0.5	19
46	A Self-Adaptive Topologically Connected-Based Particle Swarm Optimization. <i>IEEE Access</i> , 2018, 6, 65347-65366.	4.2	25
47	Assessments of Secondary Reinforcement of Epoxy Matrix-Glass Fibre Composite Laminates through Nanosilica (SiO ₂). <i>Materials</i> , 2018, 11, 2186.	2.9	27
48	Enhanced Multi-Objective Teaching-Learning-Based Optimization for Machining of Delrin. <i>IEEE Access</i> , 2018, 6, 51528-51546.	4.2	39
49	Influence of SiC Nanoparticle Reinforcement on FSS Welded 6061-T6 Aluminum Alloy. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-11.	2.7	29
50	Design and Development of a Robot Gripper for Food Industries using Coanda Effect. , 2018, , .		6
51	IoT Based Smart Parking System for Large Parking Lot. , 2018, , .		28
52	Observation on Multivariable Regression Methods for Various Near Infrared Spectra Data. , 2018, , .		2
53	Study on the repeatability of manufacturing nano-silica (SiO ₂) reinforced composite laminates. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 346, 012083.	0.6	6
54	EXPERIMENTAL INVESTIGATION OF STRUCTURE, WEAR, AND EROSION RESISTANCE OF SS316 SUBSTRATE COATED WITH TiCâ€‘Al ₂ O ₃ COMPOSITE BY LASER CLADDING. <i>High Temperature Material Processes</i> , 2018, 22, 63-71.	0.6	11

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55	SUPERIOR MATERIAL PROPERTIES OF HYBRID FILLER-REINFORCED ALUMINUM MMC THROUGH DOUBLE-LAYER FEEDING TECHNIQUE ADOPTED IN BOTTOM TAPPING STIR CASTING. High Temperature Material Processes, 2018, 22, 249-258.	0.6	10
56	Investigation of Densification Behaviour on Yttrium Oxide Reinforced Ti-6AL-4V Nano-Composite Through Powder Metallurgy. International Journal of Mechanical and Production Engineering Research and Development, 2018, 8, 433-442.	0.1	6
57	Multi Wall Carbon Nanotube Reinforced Silicone for Aerospace Applications. International Journal of Mechanical and Production Engineering Research and Development, 2018, 8, 775-784.	0.1	5
58	Incorporation of Human-Platelet-Derived Growth Factor-BB Encapsulated Poly(lactic-co-glycolic acid) Microspheres into 3D CORAGRAF Enhances Osteogenic Differentiation of Mesenchymal Stromal Cells. ACS Applied Materials & Interfaces, 2017, 9, 9291-9303.	8.0	15
59	The Effect of High Loaded Multiwall Carbon Nanotubes in Natural Rubber and Their Nonlinear Material Constants. Journal of Nanomaterials, 2017, 2017, 1-15.	2.7	28
60	Grasp Stability Analysis of an Isotropic Direct Driven Three-Finger Soft Robot Hand. International Journal on Advanced Science, Engineering and Information Technology, 2017, 7, 1627.	0.4	6
61	Correlation and measurement of density and viscosity of aqueous mixtures of glycerol and N-methyldiethanolamine, monoethanolamine, piperazine and ionic liquid. Journal of Molecular Liquids, 2016, 221, 1155-1161.	4.9	19
62	Optimization of Processing Parameters in ECM of Die Tool Steel Using Nanofluid by Multiobjective Genetic Algorithm. Scientific World Journal, The, 2015, 2015, 1-6.	2.1	23
63	A review article; investigations on soft materials for soft robot manipulations. International Journal of Advanced Manufacturing Technology, 2015, 80, 1027-1037.	3.0	124
64	Integrating Servo-Pneumatic Actuator with Ball Beam System based on Intelligent Position Control. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.4	3
65	Optimization of Intervening Variables in MicroEDM of SS 316L using a Genetic Algorithm and Response-Surface Methodology. Strojnicki Vestnik/Journal of Mechanical Engineering, 2014, 60, 656-664.	1.1	27
66	Two chambers soft actuator realizing robotic gymnotiform swimmers fin. , 2014, , .		17
67	Experimental investigations of skin-like material and computation of its material properties. International Journal of Precision Engineering and Manufacturing, 2014, 15, 1909-1914.	2.2	24
68	Simulations of Two Patterns Fiber Weaves Reinforced in Rubber Actuator. Jurnal Teknologi (Sciences) Tj ETQq0 0 0 rgBT /Overclock 10 Tf	0.4	7
69	3-D finite-element analysis of fiber-reinforced soft bending actuator for finger flexion. , 2013, , .		18
70	Determination of Non-Linear Material Constants of RTV Silicone Applied to a Soft Actuator for Robotic Applications. Key Engineering Materials, 2013, 594-595, 1099-1104.	0.4	9
71	Experimental Study of Non-Contact Robot Gripper for Food Industries. Applied Mechanics and Materials, 2012, 232, 392-397.	0.2	3
72	Application of Coanda Effect in Robots â€œ A Review. Advances in Intelligent and Soft Computing, 2012, , 411-418.	0.2	5

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73	Analysis on the fundamental deformation effect of a robot soft finger and its contact width during power grasping. International Journal of Advanced Manufacturing Technology, 2011, 52, 797-804.	3.0	26
74	Numerical Dynamic Analysis of a Single Link Soft Robot Finger. Applied Mechanics and Materials, 0, 459, 449-454.	0.2	6
75	Non-Linear Finite Element Analysis of Biologically Inspired Robotic Fin Actuated by Soft Actuators. Applied Mechanics and Materials, 0, 528, 272-277.	0.2	8
76	Kinematic Analysis of Three Fingered Robot Hand Using Graphical Method. International Journal of Engineering and Technology, 0, , 518-522.	0.2	2