Pedram Payvandy

List of Publications by Year
in descending order

29 papers	314 citations	1163117 8 h-index	888059 17 g-index
29 all docs	29 docs citations	29 times ranked	272 citing authors

#	Article	IF	Citations
1	Measurement of vibration in polyester filament yarns to detect their apparent properties. Journal of the Textile Institute, 2022, 113, 1270-1280.	1.9	1
2	Video camera–based vibration measurement for the detection of the apparent properties of monofilaments. Journal of the Textile Institute, 2021, 112, 1055-1066.	1.9	2
3	Application of ANN and ANFIS in prediction of color strength of plasma-treated wool yarns dyed with a natural colorant. Pigment and Resin Technology, 2020, 49, 171-180.	0.9	25
4	A novel approach for simulation of curling behavior of knitted fabric based on mass spring model. Journal of the Textile Institute, 2018, 109, 1620-1641.	1.9	13
5	Comparison of GA-Optimized Viscoelastic Models for the Characterization of Compression Behavior of Warp-Knitted Spacer Fabrics. Autex Research Journal, 2018, 18, 209-215.	1.1	1
6	Investigation of physical models accuracy optimized by PSO for determining low-velocity impact behavior of warp-knitted spacer fabrics. Journal of the Textile Institute, 2018, 109, 312-321.	1.9	4
7	Introducing and optimizing a novel mesh for simulating knitted fabric. Journal of the Textile Institute, 2018, 109, 202-218.	1.9	3
8	Introducing a novel method based on the imperialistic competitive algorithm to determine fluorine intermolecular potential from *ab initio* calculations and calculation of some properties via MD simulations. Molecular Simulation, 2018, 44, 243-253.	2.0	3
9	Measurement of the Uniformity of Thermally Bonded Points in Polypropylene Spunbonded Non-Wovens Using Image Processing and its Relationship With Their Tensile Properties. Autex Research Journal, 2018, 18, 405-418.	1.1	8
10	A novel hybrid genetic and imperialist competitive algorithm for structure extraction of woven fabric images. Journal of the Textile Institute, 2017, 108, 893-905.	1.9	6
11	A novel method based on loop shape for simulating knitted fabric using mass spring model. Fibers and Polymers, 2017, 18, 533-541.	2.1	6
12	Experimental study on compressive, flexural and fatigue behavior of warp-knitted spacer fabrics reinforced polyurethane cast elastomer composites. Fibers and Polymers, 2017, 18, 1346-1352.	2.1	7
13	A novel technique for modeling friction behavior in knitted fabric simulation. International Journal of Clothing Science and Technology, 2017, 29, 776-792.	1.1	1
14	Definition of Mass Spring Parameters for Knitted Fabric Simulation Using the Imperialist Competitive Algorithm. Fibres and Textiles in Eastern Europe, 2017, 25, 65-74.	0.5	3
15	Study and comparison techniques in fabric simulation using mass spring model. International Journal of Clothing Science and Technology, 2016, 28, 634-689.	1.1	10
16	Mass spring parameters identification for knitted fabric simulation based on FAST testing and particle swarm optimization. Fibers and Polymers, 2016, 17, 1715-1725.	2.1	9
17	Fashion set design with an emphasis on fabric composition using the interactive genetic algorithm. Fashion and Textiles, 2016, 3, .	2.4	16
18	Morphology study of nanofibers produced by extraction from polymer blend fibers using image processing. Korean Journal of Chemical Engineering, 2015, 32, 1928-1937.	2.7	9

#	Article	IF	Citations
19	Efficient constrained synthesis of path generating four-bar mechanisms based on the heuristic optimization algorithms. Mechanism and Machine Theory, 2015, 85, 189-204.	4.5	74
20	Application of data mining technique in predicting worsted spun yarn quality. Journal of the Textile Institute, 2014, 105, 100-108.	1.9	14
21	Optimization of the link drive mechanism in a sewing machine using imperialist competitive algorithm. International Journal of Clothing Science and Technology, 2014, 26, 247-260.	1.1	8
22	Predicting the influence of seam design on formability and strength of nonwoven structures using artificial neural network. Fibers and Polymers, 2013, 14, 1535-1540.	2.1	9
23	Evolution of moisture management behavior of high-wicking 3D warp knitted spacer fabrics. Fibers and Polymers, 2012, 13, 529-534.	2.1	65
24	A note on neurofractal-based defect recognition and classification in nonwoven web images. Journal of the Textile Institute, 2010, 101, 46-51.	1.9	6
25	Electro-conductive textile yarns. , 2010, , 298-328.		3
26	Rotational electromagnetic-field-aided false twisting of metallic filaments. Journal of the Textile Institute, 2010, 101, 514-519.	1.9	3
27	Interlacing metallic filaments by rotational permanent magnetic field. Fibers and Polymers, 2008, 9, 583-587.	2.1	3
28	Introducing a novel model for predicting effective thermal conductivity of spacer fabrics based on their structural parameters. Journal of Thermal Analysis and Calorimetry, 0, , 1.	3.6	2
29	A numerical structure-based method of simulating filament yarns. Journal of the Textile Institute, 0, , 1-13.	1.9	0