Abhijit Majumdar

List of Publications by Year
in descending order

84 papers	3,348 citations	159358 30 h-index	168136 53 g-index
87 all docs	87 docs citations	87 times ranked	1797 citing authors

#	Article	IF	Citations
1	Selection of resilient suppliers in manufacturing industries post-COVID-19: implications for economic and social sustainability in emerging economies. International Journal of Emerging Markets, 2023, 18, 3657-3675.	1.3	8
2	Sensory attributes of knitted fabrics intended for next-to-skin clothing. Journal of the Textile Institute, 2023, 114, 757-762.	1.0	4
3	Evaluating the Preparedness of Indian States against COVIDâ€19 Pandemic Risk: A Fuzzy Multiâ€criteria Decisionâ€Making Approach. Risk Analysis, 2022, 42, 85-96.	1.5	13
4	Is artificial intelligence an enabler of supply chain resiliency post COVID-19? An exploratory state-of-the-art review for future research. Operations Management Research, 2022, 15, 378-398.	5.0	51
5	An Exploratory State-of-the-Art Review of Artificial Intelligence Applications in Circular Economy using Structural Topic Modeling. Operations Management Research, 2022, 15, 609-626.	5.0	18
6	Supply chain viability in the context of COVID-19 pandemic in small and medium-sized enterprises: implications for sustainable development goals. Journal of Enterprise Information Management, 2022, 35, 100-124.	4.4	38
7	Circular economy adoption challenges in medical waste management for sustainable development: An empirical study. Sustainable Development, 2022, 30, 958-975.	6.9	13
8	Analysis on Bending Performance of the Electro-Textile Antennas With Bandwidth Enhancement for Wearable Tracking Application. IEEE Access, 2022, 10, 31800-31820.	2.6	11
9	Face masks to fight against COVID-19 pandemics: A comprehensive review of materials, design, technology and product development. Journal of Industrial Textiles, 2022, 51, 3613S-3647S.	1.1	5
10	Reviewing the applications of artificial intelligence in sustainable supply chains: Exploring research propositions for future directions. Business Strategy and the Environment, 2022, 31, 2400-2423.	8.5	29
11	Machine learning and soft computing applications in textile and clothing supply chain: Bibliometric and network analyses to delineate future research agenda. Expert Systems With Applications, 2022, 200, 117000.	4.4	15
12	Attaining sustainable development goals (SDGs) through supply chain practices and business strategies: A systematic review with bibliometric and network analyses. Business Strategy and the Environment, 2022, 31, 3669-3687.	8.5	43
13	Barriers of social sustainability: an improved interpretive structural model of Indian textile and clothing supply chain. Sustainable Development, 2022, 30, 1616-1633.	6.9	6
14	Hybrid Neuro-Genetic Machine Learning Models for the Engineering of Ring-spun Cotton Yarns. Journal of Natural Fibers, 2022, 19, 15164-15175.	1.7	4
15	A triple helix framework for strategy development in circular textile and clothing supply chain: an Indian perspective. Journal of Cleaner Production, 2022, 367, 132954.	4.6	16
16	Analysing the vulnerability of green clothing supply chains in South and Southeast Asia using fuzzy analytic hierarchy process. International Journal of Production Research, 2021, 59, 752-771.	4.9	41
17	Social sustainability tensions in multi-tier supply chain: A systematic literature review towards conceptual framework development. Journal of Cleaner Production, 2021, 279, 123075.	4.6	160
18	Managing the barriers of Industry 4.0 adoption and implementation in textile and clothing industry: Interpretive structural model and triple helix framework. Computers in Industry, 2021, 125, 103372.	5.7	99

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19	A new case of rank reversal in analytic hierarchy process due to aggregation of cost and benefit criteria. Operations Research Perspectives, 2021, 8, 100185.	1.2	7
20	Graphene Reinforced Multiphase Shear Thickening Fluid for Augmenting Low Velocity Ballistic Resistance. Fibers and Polymers, 2021, 22, 213-221.	1.1	16
21	Mitigating the Blunt Trauma of Soft Armour Panels using Polycarbonate Sheets: A Cost-effective Solution. Applied Composite Materials, 2021, 28, 1089-1109.	1.3	8
22	Tailoring the biodegradability of polylactic acid (PLA) based films and ramie- PLA green composites by using selective additives. International Journal of Biological Macromolecules, 2021, 181, 1092-1103.	3.6	39
23	An exposition of shear thickening fluid treated double and 3D woven fabrics with a new integrity factor for enhanced impact resistance. Composite Structures, 2021, 270, 114086.	3.1	13
24	Prioritising risk mitigation strategies for environmentally sustainable clothing supply chains: Insights from selected organisational theories. Sustainable Production and Consumption, 2021, 28, 543-555.	5.7	45
25	Ballistic performance and failure modes of woven and unidirectional fabric based soft armour panels. Composite Structures, 2021, 255, 112941.	3.1	32
26	Economic sustainability benchmarking of environmental initiatives: a case of wastewater treatment plant. Benchmarking, 2021, 28, 2008-2022.	2.9	9
27	A New Ranking Method for Interval-Valued Intuitionistic Fuzzy Numbers and Its Application in Multi-Criteria Decision-Making. Mathematics, 2021, 9, 2647.	1.1	6
28	Modelling and prediction of antibacterial activity of knitted fabrics made from silver nanocomposite fibres using soft computing approaches. Neural Computing and Applications, 2020, 32, 9509-9519.	3.2	5
29	A review of fibrous materials for soft body armour applications. RSC Advances, 2020, 10, 1066-1086.	1.7	70
30	Modulating the properties of polylactic acid for packaging applications using biobased plasticizers and naturally obtained fillers. International Journal of Biological Macromolecules, 2020, 153, 1165-1175.	3.6	33
31	Soft armour design by angular stacking of shear thickening fluid impregnated high-performance fabrics for quasi-isotropic ballistic response. Composite Structures, 2020, 233, 111720.	3.1	46
32	Design strategy for optimising weight and ballistic performance of soft body armour reinforced with shear thickening fluid. Composites Part B: Engineering, 2020, 183, 107721.	5.9	77
33	Modulating the rheological response of shear thickening fluids by variation in molecular weight of carrier fluid and its correlation with impact resistance of treated p-aramid fabrics. Polymer Testing, 2020, 91, 106830.	2.3	13
34	Deciphering the structure-induced impact response of ZnO nanorod grafted UHMWPE woven fabrics. Thin-Walled Structures, 2020, 156, 106991.	2.7	28
35	Designing of hybrid soft body armour using high-performance unidirectional and woven fabrics impregnated with shear thickening fluid. Composite Structures, 2020, 253, 112776.	3.1	36
36	Rheometry of novel shear thickening fluid and its application for improving the impact energy absorption of p-aramid fabric. Thin-Walled Structures, 2020, 155, 106954.	2.7	27

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37	Interplay of fabric structure and shear thickening fluid impregnation in moderating the impact response of high-performance woven fabrics. Journal of Composite Materials, 2020, 54, 4387-4395.	1.2	21
38	Circular fashion: Properties of fabrics made from mechanically recycled poly-ethylene terephthalate (PET) bottles. Resources, Conservation and Recycling, 2020, 161, 104915.	5.3	75
39	COVID-19 debunks the myth of socially sustainable supply chain: A case of the clothing industry in South Asian countries. Sustainable Production and Consumption, 2020, 24, 150-155.	5.7	173
40	Deconstructing the role of shear thickening fluid in enhancing the impact resistance of high-performance fabrics. Composites Part B: Engineering, 2019, 175, 107167.	5.9	86
41	Hybrid approach for augmenting the impact resistance of p-aramid fabrics: grafting of ZnO nanorods and impregnation of shear thickening fluid. Journal of Materials Science, 2019, 54, 13106-13117.	1.7	29
42	Improving the Impact Resistance Performance of STF Treated Kevlar Fabric Structures. Materials Today: Proceedings, 2019, 16, 1538-1541.	0.9	6
43	Tuning the Frictional Properties of Carbon Fabrics Using Boron Carbide Particles. Fibers and Polymers, 2019, 20, 725-731.	1.1	13
44	Soft body armour development by silica particle based shear thickening fluid coated *p*-aramid fabrics. Journal of the Textile Institute, 2019, 110, 1515-1518.	1.0	20
45	Tailoring the mechanical and thermal properties of polylactic acid-based bionanocomposite films using halloysite nanotubes and polyethylene glycol by solvent casting process. Journal of Materials Science, 2019, 54, 8971-8983.	1.7	54
46	Comparative Study of P-aramid Based Soft and Stiff Composite Panels for Protective Application. Fibers and Polymers, 2019, 20, 406-412.	1.1	19
47	Soft body armour. Textile Progress, 2019, 51, 139-224.	1.3	32
48	Structure induced effectiveness of shear thickening fluid for modulating impact resistance of UHMWPE fabrics. Composite Structures, 2019, 210, 41-48.	3.1	89
49	Analyzing the barriers of green textile supply chain management in Southeast Asia using interpretive structural modeling. Sustainable Production and Consumption, 2019, 17, 176-187.	5.7	147
50	Improving the mechanical properties of p‑aramid fabrics and composites by developing ZnO nanostructures. Polymer Composites, 2018, 39, 3300-3306.	2.3	14
51	Multi layered natural rubber coated woven *P*‑aramid and UHMWPE fabric composites for soft body armor application. Polymer Composites, 2018, 39, 3636-3644.	2.3	45
52	Modeling the barriers of green supply chain management in small and medium enterprises. Management of Environmental Quality, 2018, 29, 1110-1122.	2.2	55
53	Leveraging the Antibacterial Properties of Knitted Fabrics by Admixture of Polyester-Silver Nanocomposite Fibres. Fibers and Polymers, 2018, 19, 1403-1410.	1.1	7
54	Role of surface chemistry of fibres additives on rheological behavior of ceramic particle based Shear Thickening Fluids. Ceramics International, 2018, 44, 21514-21524.	2.3	19

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55	Multilayered flexible uni-polymer and hybrid composites for ballistic applications. Fibers and Polymers, 2017, 18, 786-794.	1.1	7
56	Prediction of rheology of shear thickening fluids using phenomenological and artificial neural network models. Korea Australia Rheology Journal, 2017, 29, 185-193.	0.7	14
57	Influence of cellulose nanofibers on the rheological behavior of silica-based shear-thickening fluid. Cellulose, 2017, 24, 4163-4171.	2.4	38
58	Tuning the structure of 3D woven aramid fabrics reinforced with shear thickening fluid for developing soft body armour. Composite Structures, 2017, 178, 415-425.	3.1	75
59	Shear thickening fluids using silica-halloysite nanotubes to improve the impact resistance of p-aramid fabrics. Applied Clay Science, 2016, 132-133, 468-474.	2.6	62
60	Effects of fabric construction and shear thickening fluid on yarn pull-out from high-performance fabrics. Textile Reseach Journal, 2016, 86, 2056-2066.	1.1	36
61	Improving the impact resistance of p-aramid fabrics by sequential impregnation with shear thickening fluid. Fibers and Polymers, 2016, 17, 199-204.	1.1	33
62	Ultraviolet radiation protection by cotton fabrics: role of porous yarn structure, fabric thickness and pore size. Journal of the Textile Institute, 2016, 107, 1159-1168.	1.0	9
63	Interactive effects of p-aramid fabric structure and shear thickening fluid on impact resistance performance of soft armor materials. Materials and Design, 2016, 89, 286-293.	3.3	100
64	Optimization of woven fabric parameters for ultraviolet radiation protection and comfort using artificial neural network and genetic algorithm. Neural Computing and Applications, 2016, 27, 2567-2576.	3.2	17
65	Effects of fabric thickness and inter-yarn pore size on ultraviolet radiation protection by polyester woven fabrics. Fibers and Polymers, 2015, 16, 1163-1168.	1.1	8
66	Development and performance optimization of knitted antibacterial materials using polyester–silver nanocomposite fibres. Materials Science and Engineering C, 2015, 54, 26-31.	3.8	40
67	Modeling and Optimization in Fibrous Materials. Journal of the Institution of Engineers (India): Series E, 2015, 96, 87-88.	0.5	2
68	A new approach to determine the quality value of cotton fibres using multi-criteria decision making and genetic algorithm. Fibers and Polymers, 2014, 15, 2658-2664.	1.1	15
69	Low stress mechanical properties of fabrics woven from bamboo viscose blended yarns. Fibers and Polymers, 2014, 15, 1985-1991.	1.1	18
70	Development of soft composite materials with improved impact resistance using Kevlar fabric and nano-silica based shear thickening fluid. Materials & Design, 2014, 54, 295-300.	5.1	146
71	Yarn engineering using hybrid artificial neural network-genetic algorithm model. Fibers and Polymers, 2013, 14, 1220-1226.	1.1	20
72	An analysis of deformation and energy absorption modes of shear thickening fluid treated Kevlar fabrics as soft body armour materials. Materials & Design, 2013, 51, 148-153.	5.1	148

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73	Optimal designing of soft body armour materials using shear thickening fluid. Materials & Design, 2013, 46, 191-198.	5.1	90
74	Predicting the ultraviolet radiation protection by polyesterâ€"cotton blended woven fabrics using nonlinear regression and artificial neural network models. Photodermatology Photoimmunology and Photomedicine, 2013, 29, 182-189.	0.7	4
75	Effect of weave, structural parameters and ultraviolet absorbers on *in vitro* protection factor of bleached cotton woven fabrics. Photodermatology Photoimmunology and Photomedicine, 2012, 28, 58-67.	0.7	25
76	Soft computing in fibrous materials engineering. Textile Progress, 2011, 43, 1-95.	1.3	20
77	Improving the impact resistance performance of Kevlar fabrics using silica based shear thickening fluid. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 529, 224-229.	2.6	139
78	Soft Computing Applications in Fabrics and Clothing: A Comprehensive Review. Research Journal of Textile and Apparel, 2010, 14, 1-17.	0.6	14
79	Optimal design of flyash filled composite friction materials using combined Analytical Hierarchy Process and Technique for Order Preference by Similarity to Ideal Solutions approach. Materials & Design, 2010, 31, 1937-1944.	5.1	33
80	Thermal properties of knitted fabrics made from cotton and regenerated bamboo cellulosic fibres. International Journal of Thermal Sciences, 2010, 49, 2042-2048.	2.6	202
81	Engineering of cotton fabrics for maximizing in vitro ultraviolet radiation protection. Photodermatology Photoimmunology and Photomedicine, 2010, 26, 290-296.	0.7	15
82	Modelling of ring yarn unevenness by soft computing approach. Fibers and Polymers, 2008, 9, 210-216.	1.1	21
83	Tailoring the Rheology of Shear Thickening Fluids by Regulating the Particle Size of Dispersed Phase for Enhancing the Impact Resistance of Aramid Fabrics. Fibers and Polymers, 0, , 1.	1.1	3
84	Optimisation of bending and shear rigidities of woven fabrics using hybrid DOE-NSGA-II approach. Journal of the Textile Institute, 0, , 1-8.	1.0	2