Sundaresan Jayaraman

List of Publications by Year
in descending order

23 papers	626 citations
1039880 9 h-index	839398 18 g-index
23 all docs	23 docs citations
23 times ranked	749 citing authors

#	Article	IF	Citations
1	Smart Textiles: Wearable Electronic Systems. MRS Bulletin, 2003, 28, 585-591.	1.7	254
2	FDAS: A Knowledge-based Framework for Analysis of Defects in Woven Textile Structures. Journal of the Textile Institute, 1992, 83, 431-448.	1.0	103
3	Analysis of the Modeling Methodologies for Predicting the Strength of Air-Jet Spun Yarns. Textile Reseach Journal, 1997, 67, 39-44.	1.1	45
4	A Structured Methodology for the Design and Development of Textile Structures in a Concurrent Engineering Framework. Journal of the Textile Institute, 1998, 89, 44-62.	1.0	30
5	Respiratory Protection Considerations for Healthcare Workers During the COVID-19 Pandemic. Health Security, 2020, 18, 237-240.	0.9	28
6	Adaptive and responsive textile structures (ARTS). , 2001, , 226-245.		25
7	Designing a Textile Curriculum for the 1990s: A Rewarding Challenge. Journal of the Textile Institute, 1990, 81, 185-194.	1.0	20
8	From containment to harm reduction from SARS-CoV-2: a fabric mask for enhanced effectiveness, comfort, and compliance. Journal of the Textile Institute, 2021, 112, 1144-1158.	1.0	18
9	The wearables revolution and Big Data: the textile lineage. Journal of the Textile Institute, 2017, 108, 605-614.	1.0	17
10	Air permeability of multilayer woven fabric systems. Journal of the Textile Institute, 2011, 102, 189-202.	1.0	15
11	Wearable Biomedical Systems: Research to Reality. , 2007, , .		12
12	Studies on Fiber–Process–Structure–Property Relationships in Air-jet Spinning. Part I: The Effect of Process and Material Parameters on the Structure of Microdenier Polyester-fiber/Cotton Blended Yarns. Journal of the Textile Institute, 1998, 89, 214-242.	1.0	8
13	Studies on Fiber–Process–Structure–Property Relationships in Air-jet Spinning. Part II: Model Development. Journal of the Textile Institute, 1998, 89, 243-265.	1.0	8
14	A Computer Simulation Approach for Engineering Air-Jet Spun Yarns. Textile Reseach Journal, 1997, 67, 223-230.	1.1	7
15	Three-Dimensional Multilayer Woven Preforms for Composites. ACS Symposium Series, 1991, , 53-80.	0.5	6
16	FDAS: architecture and implementation. Expert Systems, 1992, 9, 115-124.	2.9	6
17	Smart Textiles: A Platform for Sensing and Personalized Mobile Information-processing. Journal of the Textile Institute, 2003, 94, 87-98.	1.0	5
18	Wearable Sensor Systems: Opportunities and Challenges. , 2005, 2005, 4153-5.		5

#	Article	IF	Citations
19	Fabric surface characterization: assessment of deep learning-based texture representations using a challenging dataset. Journal of the Textile Institute, 2021, 112, 293-305.	1.0	5
20	The Engineering Design of Intelligent Protective Textiles and Clothing. NATO Science for Peace and Security Series B: Physics and Biophysics, 2012, , 1-27.	0.2	4
21	A transdisciplinary approach to wearables, big data and quality of life. , 2014, 2014, 4155-8.		3
22	Respiratory Protection for the Nation. JAMA - Journal of the American Medical Association, 2022, 327, 1023.	3.8	2
23	Wearable Biomedical Systems and mHealth. , 2015, , 99-124.		0