Mohanapriya Venkataraman

List of Publications by Year
in descending order

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55	881	567144 15	526166 27
papers	citations	h-index	g-index

56	56	56	706
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of Nanoparticles on Thermal and Electrical Conductivity of Composites. Polymers, 2020, 12, 742.	2.0	89
2	Progress in Sol-Gel Technology for the Coatings of Fabrics. Materials, 2020, 13, 1838.	1.3	69
3	Aerogels for thermal insulation in high-performance textiles. Textile Progress, 2016, 48, 55-118.	1.3	63
4	Co-solvent free interfacial polycondensation and properties of polyurea PCM microcapsules with dodecanol dodecanoate as core material. Solar Energy, 2020, 199, 721-730.	2.9	43
5	The production, characterization and applications of nanoparticles in the textile industry. Textile Progress, 2014, 46, 133-226.	1.3	41
6	Thermodynamics of aerogel-treated nonwoven fabrics at subzero temperatures. Journal of Industrial Textiles, 2015, 45, 387-404.	1.1	40
7	Aerogel based nanoporous fibrous materials for thermal insulation. Fibers and Polymers, 2014, 15, 1444-1449.	1.1	38
8	Novel techniques to analyse thermal performance of aerogel-treated blankets under extreme temperatures. Journal of the Textile Institute, 2015, 106, 736-747.	1.0	36
9	Electrospun nanofibrous membranes embedded with aerogel for advanced thermal and transport properties. Polymers for Advanced Technologies, 2018, 29, 2583-2592.	1.6	32
10	Review: incorporation of organic PCMs into textiles. Journal of Materials Science, 2022, 57, 798-847.	1.7	29
11	Effect of silanization on copper coated milife fabric with improved EMI shielding effectiveness. Materials Chemistry and Physics, 2020, 239, 122008.	2.0	28
12	Structural analysis of embedding polyethylene glycol in silica aerogel. Microporous and Mesoporous Materials, 2021, 310, 110636.	2.2	26
13	Investigation on sound absorption properties of aerogel/polymer nonwovens. Journal of the Textile Institute, 2019, 110, 196-201.	1.0	23
14	Thermal analysis of PEG/Metal particle-coated viscose fabric. Polymer Testing, 2021, 100, 107231.	2.3	19
15	Nanoporous materials. , 2019, , 311-353.		17
16	Resistance against Penetration of Electromagnetic Radiation for Ultra-light Cu/Ni-Coated Polyester Fibrous Materials. Polymers, 2020, 12, 2029.	2.0	17
17	Influence of structural parameters on thermal performance of polypropylene nonwovens. Polymers for Advanced Technologies, 2018, 29, 3027-3034.	1.6	16
18	Dynamic heat flux measurement for advanced insulation materials. Fibers and Polymers, 2016, 17, 925-931.	1.1	14

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19	Effect of compressibility on heat transport phenomena in aerogel-treated nonwoven fabrics. Journal of the Textile Institute, 2016, 107, 1150-1158.	1.0	14
20	Modelling and simulation of heat transfer by convection in aerogel treated nonwovens. Journal of the Textile Institute, 2017, 108, 1442-1453.	1.0	14
21	A Review of Impact of Textile Research on Protective Face Masks. Materials, 2021, 14, 1937.	1.3	13
22	Preparation of core-sheath nanofibers with high latent heat by thermal cross-linking and coaxial electrospinning. Polymer, 2021, 228, 123958.	1.8	12
23	Preparation and evaluation of thermo-regulating bamboo fabric treated by microencapsulated phase change materials. Textile Reseach Journal, 2019, 89, 3387-3393.	1.1	11
24	Electromagnetic Interference Shielding of Metal Coated Ultrathin Nonwoven Fabrics and Their Factorial Design. Polymers, 2021, 13, 484.	2.0	11
25	Study on the Relationship Between Structure Parameters and Filtration Performance of Polypropylene Meltblown Nonwovens. Autex Research Journal, 2020, 20, 366-371.	0.6	11
26	An experimental evaluation of convective heat transfer in multi-layered fibrous materials composed by different middle layer structures. Journal of Industrial Textiles, 2021, 51, 362-379.	1.1	10
27	Hydrophobicity, water moisture transfer and breathability of PTFE-coated viscose fabrics prepared by electrospraying technology and sintering process. Progress in Organic Coatings, 2022, 165, 106775.	1.9	10
28	Comparative Analysis of High Performance Thermal Insulation Materials. Journal of Textile Engineering & Fashion Technology, 2017, 2, .	0.1	9
29	Simple determination of key structural parameters for fibrous materials enabled by Ergun-Type and Kozeny-type equations. Polymer Testing, 2022, 108, 107514.	2.3	9
30	Crystallization mechanism of micro flake Cu particle-filled poly(ethylene glycol) composites. Thermochimica Acta, 2022, 710, 179172.	1.2	8
31	The Effect of Mask Style and Fabric Selection on the Comfort Properties of Fabric Masks. Materials, 2022, 15, 2559.	1.3	8
32	Application of silver nanoparticles to industrial sewing threads: Effects on physico-functional properties & seam efficiency. Fibers and Polymers, 2014, 15, 510-518.	1.1	7
33	Electrospun nanofibers. , 2019, , 35-161.		7
34	A novel method for producing bi-component thermo-regulating alginate fiber from phase change material microemulsion. Textile Reseach Journal, 2020, 90, 1038-1044.	1.1	7
35	Preparation of Electrosprayed, Microporous Particle Filled Layers. Polymers, 2020, 12, 1352.	2.0	7
36	Exceptional Electromagnetic Shielding Properties of Lightweight and Porous Multifunctional Layers. ACS Applied Electronic Materials, 2020, 2, 1138-1144.	2.0	7

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37	Performance of Electrospun Polyvinylidene Fluoride Nanofibrous Membrane in Air Filtration. Autex Research Journal, 2020, 20, 552-559.	0.6	7
38	Transport Properties of Electro-Sprayed Polytetrafluoroethylene Fibrous Layer Filled with Aerogels/Phase Change Materials. Nanomaterials, 2020, 10, 2042.	1.9	6
39	Sandwich Structures Reflecting Thermal Radiation Produced by the Human Body. Polymers, 2021, 13, 3309.	2.0	6
40	Thermal Protective Properties of Aerogel-coated Kevlar Woven Fabrics. Journal of Fiber Bioengineering and Informatics, 2019, 12, 93-101.	0.2	5
41	Unmasking the Mask: Investigating the Role of Physical Properties in the Efficacy of Fabric Masks to Prevent the Spread of the COVID-19 Virus. Materials, 2021, 14, 7756.	1.3	5
42	Thermal Insulation and Porosityâ€"From Macro- to Nanoscale. Hot Topics in Thermal Analysis and Calorimetry, 2017, , 425-448.	0.5	4
43	Investigation of thermal comfort properties of fabrics containing mohair. Journal of the Textile Institute, 2022, 113, 616-627.	1.0	4
44	Preparation of electrosprayed composite coated microporous filter for particulate matter capture. Nano Select, 0, , .	1.9	4
45	Supercooling suppression and mechanical property improvement of phase change nanofibers by optimizing core distribution. Polymer, 2021, 233, 124176.	1.8	4
46	Thermal Behavior of Aerogel-Embedded Nonwovens in Cross Airflow. Autex Research Journal, 2021, 21, 115-124.	0.6	4
47	Tailored expanded graphite based PVDF porous composites for potential electrostatic dissipation applications. Diamond and Related Materials, 2022, 125, 108972.	1.8	4
48	Preparation of Electrosprayed Microporous Membranes. IOP Conference Series: Materials Science and Engineering, 2018, 460, 012017.	0.3	3
49	Functional Coatings by Natural and Synthetic Agents for Insect Control and Their Applications. Coatings, 2022, 12, 476.	1.2	3
50	Sophisticated Glass Tapes for Fabrication of Composites. Journal of Fiber Bioengineering and Informatics, 2019, 12, 35-42.	0.2	2
51	Acoustical Evaluation and Comparative Study of Maple Leaves and Coir and Polyester Fibers. Journal of Natural Fibers, 2022, 19, 10813-10818.	1.7	2
52	Hybrid Prepreg Tapes for Composite Manufacturing: A Case Study. Materials, 2022, 15, 619.	1.3	2
53	Tensile Properties of Glass Roving and Hybrid Tapes. IOP Conference Series: Materials Science and Engineering, 2019, 553, 012055.	0.3	1
54	Aerogel Based High Performance Thermal Insulation Materials. IOP Conference Series: Materials Science and Engineering, 2019, 553, 012043.	0.3	0

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55	Preparation and Characterization of Electrosprayed Aerogel/Polytetrafluoroethylene Microporous Materials. Polymers, 2022, 14, 48.	2.0	0