

# Jiri Militky

## List of Publications by Year in descending order

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232  
papers

4,932  
citations

101384

36  
h-index

155451

55  
g-index

236  
all docs

236  
docs citations

236  
times ranked

3808  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrophobic treatment of natural fibers and their composites—A review. <i>Journal of Industrial Textiles</i> , 2018, 47, 2153-2183.	1.1	292
2	Nanocellulose coated woven jute/green epoxy composites: Characterization of mechanical and dynamic mechanical behavior. <i>Composite Structures</i> , 2017, 161, 340-349.	3.1	131
3	Development of a biocomposite based on green epoxy polymer and natural cellulose fabric (bark) Tj ETQq1 1 0.784314 rgBT /Overloc 5.9 123	5.9	123
4	Development of porous and electrically conductive activated carbon web for effective EMI shielding applications. <i>Carbon</i> , 2017, 111, 439-447.	5.4	120
5	Sound Absorption Properties of Natural Fibers: A Review. <i>Sustainability</i> , 2020, 12, 8477.	1.6	101
6	Comparative evaluation of fiber treatments on the creep behavior of jute/green epoxy composites. <i>Composites Part B: Engineering</i> , 2015, 80, 361-368.	5.9	91
7	Influence of Nanoparticles on Thermal and Electrical Conductivity of Composites. <i>Polymers</i> , 2020, 12, 742.	2.0	89
8	Coating of cellulose-TiO <sub>2</sub> nanoparticles on cotton fabric for durable photocatalytic self-cleaning and stiffness. <i>Carbohydrate Polymers</i> , 2016, 150, 107-113.	5.1	86
9	Ultimate Mechanical Properties of Basalt Filaments. <i>Textile Reseach Journal</i> , 1996, 66, 225-229.	1.1	78
10	Green one-step synthesis of ZnO/cellulose nanocrystal hybrids with modulated morphologies and superfast absorption of cationic dyes. <i>International Journal of Biological Macromolecules</i> , 2019, 132, 51-62.	3.6	78
11	Reinforcement of wet milled jute nano/micro particles in polyvinyl alcohol films. <i>Fibers and Polymers</i> , 2013, 14, 133-137.	1.1	70
12	Elevated temperature properties of basalt microfibril filled geopolymer composites. <i>Construction and Building Materials</i> , 2018, 163, 850-860.	3.2	70
13	Progress in Sol-Gel Technology for the Coatings of Fabrics. <i>Materials</i> , 2020, 13, 1838.	1.3	69
14	Mechanical properties of poly lactic acid composite films reinforced with wet milled jute nanofibers. <i>Polymer Composites</i> , 2013, 34, 2133-2141.	2.3	64
15	Electromagnetic shielding properties of woven fabrics made from high-performance fibers. <i>Textile Reseach Journal</i> , 2014, 84, 1255-1267.	1.1	63
16	Aerogels for thermal insulation in high-performance textiles. <i>Textile Progress</i> , 2016, 48, 55-118.	1.3	63
17	Copper electroless plating of cotton fabrics after surface activation with deposition of silver and copper nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 137, 109181.	1.9	63
18	Microstructure and mechanical properties of carbon microfiber reinforced geopolymers at elevated temperatures. <i>Construction and Building Materials</i> , 2018, 160, 733-743.	3.2	60

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19	One-Pot Sonochemical Synthesis of ZnO Nanoparticles for Photocatalytic Applications, Modelling and Optimization. <i>Materials</i> , 2020, 13, 14.	1.3	59
20	Modeling and analysis of the creep behavior of jute/green epoxy composites incorporated with chemically treated pulverized nano/micro jute fibers. <i>Industrial Crops and Products</i> , 2016, 84, 230-240.	2.5	57
21	Recycling of textile waste into green composites: Performance characterization. <i>Polymer Composites</i> , 2014, 35, 1960-1967.	2.3	55
22	Statistical data analysis. , 2011, , .		54
23	Thermomechanical properties of glass fabric/epoxy composites filled with fly ash. <i>Composites Part B: Engineering</i> , 2016, 85, 268-276.	5.9	52
24	Superhydrophobicity, UV protection and oil/water separation properties of fly ash/Trimethoxy(octadecyl)silane coated cotton fabrics. <i>Carbohydrate Polymers</i> , 2018, 202, 571-580.	5.1	51
25	Acoustic and thermal properties of a cellulose nonwoven natural fabric (barkcloth). <i>Applied Acoustics</i> , 2017, 116, 177-183.	1.7	50
26	Development of tree-like nanofibrous air filter with durable antibacterial property. <i>Separation and Purification Technology</i> , 2021, 259, 118135.	3.9	50
27	Geopolymers and Fiber-Reinforced Concrete Composites in Civil Engineering. <i>Polymers</i> , 2021, 13, 2099.	2.0	47
28	Mechanical, thermal and interfacial properties of green composites from basalt and hybrid woven fabrics. <i>Fibers and Polymers</i> , 2016, 17, 1675-1686.	1.1	45
29	Electrical conductivity and physiological comfort of silver coated cotton fabrics. <i>Journal of the Textile Institute</i> , 2018, 109, 620-628.	1.0	44
30	Copper coated multifunctional cotton fabrics. <i>Journal of Industrial Textiles</i> , 2018, 48, 448-464.	1.1	44
31	Co-solvent free interfacial polycondensation and properties of polyurea PCM microcapsules with dodecanol dodecanoate as core material. <i>Solar Energy</i> , 2020, 199, 721-730.	2.9	43
32	Fiber-based structures for electromagnetic shielding “ comparison of different materials and textile structures. <i>Textile Research Journal</i> , 2018, 88, 1992-2012.	1.1	42
33	Bio-Composites Reinforced with Natural Fibers: Comparative Analysis of Thermal, Static and Dynamic-Mechanical Properties. <i>Fibers and Polymers</i> , 2020, 21, 619-627.	1.1	42
34	Modeling of internal geometry of 3D woven fabrics by computation method. <i>Journal of the Textile Institute</i> , 2013, 104, 312-321.	1.0	41
35	The production, characterization and applications of nanoparticles in the textile industry. <i>Textile Progress</i> , 2014, 46, 133-226.	1.3	41
36	Thermodynamics of aerogel-treated nonwoven fabrics at subzero temperatures. <i>Journal of Industrial Textiles</i> , 2015, 45, 387-404.	1.1	40

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37	Modelling and simulation of earthquake resistant 3D woven textile structural concrete composites. Composites Part B: Engineering, 2015, 81, 91-97.	5.9	39
38	Aerogel based nanoporous fibrous materials for thermal insulation. Fibers and Polymers, 2014, 15, 1444-1449.	1.1	38
39	Static and dynamic mechanical properties of novel treated jute/green epoxy composites. Textile Reseach Journal, 2016, 86, 960-974.	1.1	37
40	Sonochemical synthesis of highly crystalline photocatalyst for industrial applications. Ultrasonics, 2018, 83, 203-213.	2.1	37
41	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
42	Acoustic evaluation of Struto nonwovens and their relationship with thermal properties. Textile Reseach Journal, 2018, 88, 426-437.	1.1	36
43	Study on the sound absorption behavior of multi-component polyester nonwovens: experimental and numerical methods. Textile Reseach Journal, 2019, 89, 3342-3361.	1.1	36
44	Effect of TiO <sub>2</sub> nanoparticles on basalt/polysiloxane composites: mechanical and thermal characterization. Journal of the Textile Institute, 2012, 103, 1361-1368.	1.0	35
45	Influence of noncellulosic contents on nano scale refinement of waste jute fibers for reinforcement in polylactic acid films. Fibers and Polymers, 2014, 15, 1500-1506.	1.1	35
46	Sulfur-infiltrated yeast-derived nitrogen-rich porous carbon microspheres @ reduced graphene cathode for high-performance lithium-sulfur batteries. Electrochimica Acta, 2018, 285, 317-325.	2.6	35
47	Shape-Stabilized Cellulose Nanocrystal-Based Phase-Change Materials for Energy Storage. ACS Applied Nano Materials, 2020, 3, 1741-1748.	2.4	35
48	Modelling and simulation of 3D orthogonal fabrics for composite applications. Journal of the Textile Institute, 2012, 103, 1255-1261.	1.0	33
49	Novelties of 3-D woven composites and nanocomposites. Journal of the Textile Institute, 2014, 105, 84-92.	1.0	33
50	Business health characterization: A hybrid regression and support vector machine analysis. Expert Systems With Applications, 2016, 49, 48-59.	4.4	33
51	Air permeability of polyester nonwoven fabrics. Autex Research Journal, 2015, 15, 8-12.	0.6	32
52	Ozone treatment of jute fibers. Cellulose, 2017, 24, 1543-1553.	2.4	32
53	Utility of silver-coated fabrics as electrodes in electrotherapy applications. Journal of Applied Polymer Science, 2018, 135, 46357.	1.3	32
54	Electrospun nanofibrous membranes embedded with aerogel for advanced thermal and transport properties. Polymers for Advanced Technologies, 2018, 29, 2583-2592.	1.6	32

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55	Optimized preparation of activated carbon nanoparticles from acrylic fibrous wastes. <i>Fibers and Polymers</i> , 2015, 16, 2193-2201.	1.1	31
56	Prediction of hybrid woven fabric electromagnetic shielding effectiveness. <i>Textile Reseach Journal</i> , 2015, 85, 673-686.	1.1	30
57	Growth of ZnO nanorods on cotton fabrics via microwave hydrothermal method: effect of size and shape of nanorods on superhydrophobic and UV-blocking properties. <i>Cellulose</i> , 2020, 27, 10519-10539.	2.4	30
58	Transport properties of aerogel-based nanofibrous nonwoven fabrics. <i>Fibers and Polymers</i> , 2016, 17, 1709-1714.	1.1	29
59	Denim processing and health hazards. , 2017, , 161-196.		29
60	Thermal and compression characteristics of aerogel-encapsulated textiles. <i>Journal of Industrial Textiles</i> , 2018, 47, 1998-2013.	1.1	29
61	Review: incorporation of organic PCMs into textiles. <i>Journal of Materials Science</i> , 2022, 57, 798-847.	1.7	29
62	Life-cycle assessment of denim. , 2017, , 83-110.		28
63	Comparative Performance of Copper and Silver Coated Stretchable Fabrics. <i>Fibers and Polymers</i> , 2018, 19, 607-619.	1.1	28
64	Interfacial performance and durability of textile reinforced concrete. <i>Journal of the Textile Institute</i> , 2018, 109, 879-890.	1.0	28
65	Effect of silanization on copper coated milife fabric with improved EMI shielding effectiveness. <i>Materials Chemistry and Physics</i> , 2020, 239, 122008.	2.0	28
66	In-plane shear behavior of 3D spacer knitted fabrics. <i>Journal of Industrial Textiles</i> , 2016, 46, 868-886.	1.1	27
67	Multifunctional metal composite textile shields against electromagnetic radiationâ€™ effect of various parameters on electromagnetic shielding effectiveness. <i>Polymer Composites</i> , 2017, 38, 309-323.	2.3	26
68	Structural analysis of embedding polyethylene glycol in silica aerogel. <i>Microporous and Mesoporous Materials</i> , 2021, 310, 110636.	2.2	26
69	Sound absorption and compression properties of perpendicular-laid nonwovens. <i>Textile Reseach Journal</i> , 2019, 89, 612-624.	1.1	25
70	Basalt nanoparticle reinforced hybrid woven composites: Mechanical and thermo-mechanical performance. <i>Fibers and Polymers</i> , 2017, 18, 2433-2442.	1.1	24
71	Self-cleaning properties of polyester fabrics coated with flower-like TiO <sub>2</sub> particles and trimethoxy (octadecyl)silane. <i>Journal of Industrial Textiles</i> , 2020, 50, 543-565.	1.1	24
72	Influence of washing/drying cycles on fundamental properties of metal fiber-containing fabrics designed for electromagnetic shielding purposes. <i>Textile Reseach Journal</i> , 2017, 87, 175-192.	1.1	23

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73	Investigation on sound absorption properties of aerogel/polymer nonwovens. Journal of the Textile Institute, 2019, 110, 196-201.	1.0	23
74	A new method and apparatus for evaluating the electromagnetic shielding effectiveness of textiles. Textile Research Journal, 2016, 86, 44-56.	1.1	22
75	Building and statistical interpretation of non-isothermal kinetic mode. Thermochemica Acta, 1992, 203, 31-42.	1.2	21
76	Thermal and water vapor transmission through porous warp knitted 3D spacer fabrics for car upholstery applications. Journal of the Textile Institute, 2018, 109, 345-357.	1.0	21
77	Denim and consumersâ€™ phase of life cycle. , 2017, , 257-282.		20
78	Development of durable superhydrophobic and UV protective cotton fabric via TiO <sub>2</sub> /trimethoxy(octadecyl)silane nanocomposite coating. Journal of the Textile Institute, 2021, 112, 1639-1650.	1.0	20
79	3D woven green composites from textile waste: mechanical performance. Journal of the Textile Institute, 2014, 105, 460-466.	1.0	19
80	Enhancement in ageing and functional properties of copper-coated fabrics by subsequent electroplating. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	19
81	Flame resistance behavior of cotton fabrics coated with bilayer assemblies of ammonium polyphosphate and casein. Cellulose, 2019, 26, 3557-3574.	2.4	19
82	Thermal analysis of PEG/Metal particle-coated viscose fabric. Polymer Testing, 2021, 100, 107231.	2.3	19
83	A dynamic and robust image processing based method for measuring the yarn diameter and its variation. Textile Research Journal, 2014, 84, 1948-1960.	1.1	18
84	Thermo-acoustic behaviour of 3D knitted spacer fabrics. Fibers and Polymers, 2015, 16, 2467-2476.	1.1	18
85	Study on air permeability and thermal resistance of textiles under heat convection. Textile Research Journal, 2015, 85, 1681-1690.	1.1	18
86	Reinforcement of ozone pre-treated and enzyme hydrolyzed longer jute micro crystals in poly lactic acid composite films. Composites Part B: Engineering, 2016, 95, 9-17.	5.9	18
87	Dyeing and stiffness characteristics of cellulose-coated cotton fabric. Cellulose, 2016, 23, 981-992.	2.4	17
88	Nanoporous materials. , 2019, , 311-353.		17
89	Resistance against Penetration of Electromagnetic Radiation for Ultra-light Cu/Ni-Coated Polyester Fibrous Materials. Polymers, 2020, 12, 2029.	2.0	17
90	Single-Step Green Synthesis of Highly Concentrated and Stable Colloidal Dispersion of Core-Shell Silver Nanoparticles and Their Antimicrobial and Ultra-High Catalytic Properties. Nanomaterials, 2021, 11, 1007.	1.9	17

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91	Ultrathin Multilayer Textile Structure with Enhanced EMI Shielding and Air-Permeable Properties. <i>Polymers</i> , 2021, 13, 4176.	2.0	17
92	Investigation on thermo-physiological and compression characteristics of weft-knitted 3D spacer fabrics. <i>Journal of the Textile Institute</i> , 0, , 1-11.	1.0	16
93	Effect of Temperature on the Structure and Filtration Performance of Polypropylene Melt-Blown Nonwovens. <i>Autex Research Journal</i> , 2021, 21, 207-217.	0.6	16
94	Electromagnetic Field Shielding Fabrics with Increased Comfort Properties. <i>Advanced Materials Research</i> , 2013, 677, 161-168.	0.3	15
95	Sustainability in Textile Dyeing: Recent Developments. <i>Sustainable Textiles</i> , 2020, , 37-79.	0.4	15
96	The novel approach of EMI shielding simulation for metal coated nonwoven textiles with optimized textile module. <i>Polymer Testing</i> , 2022, 114, 107706.	2.3	15
97	Dynamic heat flux measurement for advanced insulation materials. <i>Fibers and Polymers</i> , 2016, 17, 925-931.	1.1	14
98	Thermo-physiological properties of 3D spacer knitted fabrics. <i>International Journal of Clothing Science and Technology</i> , 2016, 28, 328-339.	0.5	14
99	Effect of compressibility on heat transport phenomena in aerogel-treated nonwoven fabrics. <i>Journal of the Textile Institute</i> , 2016, 107, 1150-1158.	1.0	14
100	Modelling and simulation of heat transfer by convection in aerogel treated nonwovens. <i>Journal of the Textile Institute</i> , 2017, 108, 1442-1453.	1.0	14
101	Energy harvesting performance of silver electroplated fabrics. <i>Materials Chemistry and Physics</i> , 2019, 231, 33-40.	2.0	14
102	An analysis of effective thermal conductivity of heterogeneous materials. <i>Autex Research Journal</i> , 2014, 14, 14-21.	0.6	13
103	Evaluation of Illumination Intensity of Plastic Optical Fibres with $\text{TiO}_2$ Particles by Laser Treatment. <i>Autex Research Journal</i> , 2015, 15, 13-18.	0.6	13
104	Investigation on acoustic behavior and air permeability of struto nonwovens. <i>Fibers and Polymers</i> , 2016, 17, 2078-2084.	1.1	13
105	Thermal and mechanical characterization of novel basalt woven hybrid structures. <i>Journal of the Textile Institute</i> , 2016, 107, 462-471.	1.0	13
106	A Review of Impact of Textile Research on Protective Face Masks. <i>Materials</i> , 2021, 14, 1937.	1.3	13
107	Comparative performance of flame retardancy, physiological comfort, and durability of cotton textiles treated with alkaline and acidic casein suspension. <i>Journal of Industrial Textiles</i> , 2019, 48, 969-991.	1.1	12
108	Preparation of core-sheath nanofibers with high latent heat by thermal cross-linking and coaxial electrospinning. <i>Polymer</i> , 2021, 228, 123958.	1.8	12

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109	Activated Carbon Derived from Carbonization of Kevlar Waste Materials: A Novel Single Stage Method. <i>Materials</i> , 2021, 14, 6433.	1.3	12
110	Multifunctional Electrically Conductive Copper Electroplated Fabrics Sensitized by In-Situ Deposition of Copper and Silver Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 3097.	1.9	12
111	Sorption properties of iron impregnated activated carbon web for removal of methylene blue from aqueous media. <i>Fibers and Polymers</i> , 2016, 17, 1245-1255.	1.1	11
112	Preparation and evaluation of thermo-regulating bamboo fabric treated by microencapsulated phase change materials. <i>Textile Research Journal</i> , 2019, 89, 3387-3393.	1.1	11
113	Theoretical and Experimental Studies on Thermal Properties of Polyester Nonwoven Fibrous Material. <i>Materials</i> , 2020, 13, 2882.	1.3	11
114	Electromagnetic Interference Shielding of Metal Coated Ultrathin Nonwoven Fabrics and Their Factorial Design. <i>Polymers</i> , 2021, 13, 484.	2.0	11
115	A comparison of fabric structures for carbon fiber reinforced composite: Laminated and orthogonal woven structures. <i>Polymer Composites</i> , 2021, 42, 5300-5309.	2.3	11
116	Study on the Relationship Between Structure Parameters and Filtration Performance of Polypropylene Meltblown Nonwovens. <i>Autex Research Journal</i> , 2020, 20, 366-371.	0.6	11
117	Influence of diethylene glycol content on behavior of poly(ethylene terephthalate) fibers. <i>Journal of Applied Polymer Science</i> , 1980, 25, 1195-1208.	1.3	10
118	Impact simulation of three-dimensional woven kevlar-epoxy composites. <i>Journal of Industrial Textiles</i> , 2016, 45, 978-994.	1.1	10
119	Tensile failure of polyester fibers. , 2018, , 421-514.		10
120	Basalt fibers. , 2018, , 805-840.		10
121	An experimental evaluation of convective heat transfer in multi-layered fibrous materials composed by different middle layer structures. <i>Journal of Industrial Textiles</i> , 2021, 51, 362-379.	1.1	10
122	Development of Antimicrobial Multifunctional Textiles to Avoid from Hospital-Acquired Infections. <i>Fibers and Polymers</i> , 2021, 22, 3055-3067.	1.1	10
123	Determination of the permeability coefficient and airflow resistivity of nonwoven materials. <i>Textile Research Journal</i> , 2022, 92, 126-142.	1.1	10
124	Development of Novel Antimicrobial and Antiviral Green Synthesized Silver Nanocomposites for the Visual Detection of Fe <sup>3+</sup> Ions. <i>Nanomaterials</i> , 2021, 11, 2076.	1.9	10
125	Hydrophobicity, water moisture transfer and breathability of PTFE-coated viscose fabrics prepared by electro spraying technology and sintering process. <i>Progress in Organic Coatings</i> , 2022, 165, 106775.	1.9	10
126	Surface modification of polymer optical fibers for enhanced side emission behavior. <i>Fibers and Polymers</i> , 2013, 14, 1468-1471.	1.1	9



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127	Highly sensitive displacement measurement based on spectral interferometry and Vernier effect. Optics Communications, 2016, 366, 335-339.	1.0	9
128	Short-term creep of barkcloth reinforced laminar epoxy composites. Composites Part B: Engineering, 2016, 103, 131-138.	5.9	9
129	Metal Coating on Ultrafine Polyester Non-woven Fabrics and Their Ageing Properties. Fibers and Polymers, 2019, 20, 1347-1359.	1.1	9
130	Mechanical, thermo-mechanical and thermal characteristics of multi-walled carbon nanotubes-added textile-reinforced composites. Journal of Industrial Textiles, 2020, 50, 692-715.	1.1	9
131	Characterization on Polyester Fibrous Panels and Their Homogeneity Assessment. Polymers, 2020, 12, 2098.	2.0	9
132	Highly stretchable durable electro-thermal conductive yarns made by deposition of carbon nanotubes. Journal of the Textile Institute, 2022, 113, 80-89.	1.0	9
133	A facile approach to develop multifunctional cotton fabrics with hydrophobic, self-cleaning and UV protection properties using ZnO particles and fluorocarbon. Journal of the Textile Institute, 2022, 113, 2238-2248.	1.0	9
134	Ultra-Fast Growth of ZnO Nanorods on Cotton Fabrics and Their Self-Cleaning and Physiological Comfort Properties. Coatings, 2021, 11, 1309.	1.2	9
135	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
136	Investigation of electrical properties of basalt and its hybrid structures. Textile Research Journal, 2017, 87, 715-725.	1.1	8
137	Ozone Effect On the Properties of Aramid Fabric. Autex Research Journal, 2017, 17, 164-169.	0.6	8
138	Crystallization mechanism of micro flake Cu particle-filled poly(ethylene glycol) composites. Thermochimica Acta, 2022, 710, 179172.	1.2	8
139	The Effect of Mask Style and Fabric Selection on the Comfort Properties of Fabric Masks. Materials, 2022, 15, 2559.	1.3	8
140	Optimisation of Ball Milling Parameters for Refinement of Waste Jute Fibres to Nano/Micro Scale in Dry Conditions. Journal of Textile Engineering, 2013, 59, 87-92.	0.5	7
141	Study on textile comfort properties of polypropylene blended stainless steel woven fabric for the application of electromagnetic shielding effectiveness. IOP Conference Series: Materials Science and Engineering, 2017, 254, 072018.	0.3	7
142	In-plane shear behavior of 3D warp-knitted spacer fabrics: Part II – Effect of structural parameters. Journal of Industrial Textiles, 2018, 48, 772-801.	1.1	7
143	Development of Multilayered Nanocomposites for Applications in Personal Protection. Fibers and Polymers, 2018, 19, 1288-1294.	1.1	7
144	The chemistry, manufacture, and tensile behavior of polyamide fibers. , 2018, , 367-419.		7

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145	Noise attenuation performance of warp knitted spacer fabrics. <i>Textile Reseach Journal</i> , 2019, 89, 281-293.	1.1	7
146	Multifunctional polylactic acid composites filled with activated carbon particles obtained from acrylic fibrous wastes. <i>Polymer Composites</i> , 2019, 40, 578-590.	2.3	7
147	Development of electrically conductive composites based on recycled resources. <i>Journal of the Textile Institute</i> , 2020, 111, 16-25.	1.0	7
148	A novel method for producing bi-component thermo-regulating alginate fiber from phase change material microemulsion. <i>Textile Reseach Journal</i> , 2020, 90, 1038-1044.	1.1	7
149	Preparation of Electrosprayed, Microporous Particle Filled Layers. <i>Polymers</i> , 2020, 12, 1352.	2.0	7
150	Exceptional Electromagnetic Shielding Properties of Lightweight and Porous Multifunctional Layers. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1138-1144.	2.0	7
151	Utility of whiskerized carbon fabric surfaces in resistive heating of composites. <i>Polymer Composites</i> , 2021, 42, 2774-2786.	2.3	7
152	Investigation of the stab resistance mechanism and performance of uncoated and SiO <sub>2</sub> coated high-performance aramid fabrics. <i>Journal of the Textile Institute</i> , 2022, 113, 2143-2158.	1.0	7
153	Performance of Electrospun Polyvinylidene Fluoride Nanofibrous Membrane in Air Filtration. <i>Autex Research Journal</i> , 2020, 20, 552-559.	0.6	7
154	Ozonation: a Green Source for Oxidized Cotton. <i>Fibres and Textiles in Eastern Europe</i> , 2016, 24, 19-21.	0.2	7
155	Effect of Layering Pattern on the Mechanical Properties of Bark Cloth ( <i>Ficus natalensis</i> ) Epoxy Composites. <i>International Journal of Polymer Analysis and Characterization</i> , 2015, 20, 160-171.	0.9	6
156	3D Numerical Simulation of Laminar Flow and Conjugate Heat Transfer through Fabric. <i>Autex Research Journal</i> , 2017, 17, 53-60.	0.6	6
157	Effect of jute fibre treatment on moisture regain and mechanical performance of composite materials. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 254, 042001.	0.3	6
158	Nanocomposites. , 2019, , 263-310.		6
159	Transport Properties of Electro-Sprayed Polytetrafluoroethylene Fibrous Layer Filled with Aerogels/Phase Change Materials. <i>Nanomaterials</i> , 2020, 10, 2042.	1.9	6
160	Sandwich Structures Reflecting Thermal Radiation Produced by the Human Body. <i>Polymers</i> , 2021, 13, 3309.	2.0	6
161	LCA (Life Cycle Assessment) on Recycled Polyester. <i>Textile Science and Clothing Technology</i> , 2020, , 1-30.	0.4	6
162	The influence of the spinning rate on the structure and mechanical properties of PETP fibres. <i>Acta Polymerica</i> , 1991, 42, 326-330.	1.4	5

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163	Fiber optic temperature sensing with enhanced sensitivity based on spectral interferometry. Optical Fiber Technology, 2017, 33, 45-50.	1.4	5
164	Investigation of mechanical properties of basalt woven fabrics by theoretical and image analysis methods. Fibers and Polymers, 2017, 18, 1369-1381.	1.1	5
165	Investigation on laser engraving based application of silica aerogel into nonwovens. Fibers and Polymers, 2017, 18, 2469-2475.	1.1	5
166	Mechanical behavior of nanocellulose coated jute/green epoxy composites. IOP Conference Series: Materials Science and Engineering, 2017, 254, 042015.	0.3	5
167	Compression resilience and impact resistance of fiber-reinforced sandwich composites. Polymers for Advanced Technologies, 2019, 30, 3073-3082.	1.6	5
168	Flame Retardancy, Physiological Comfort and Durability of Casein Treated Cotton Fabrics. Fibers and Polymers, 2019, 20, 1011-1020.	1.1	5
169	Effect of surface modification and knife penetration angle on the Quasi-Static Knife Penetration Resistance of para-aramid fabrics. Journal of the Textile Institute, 2019, 110, 590-599.	1.0	5
170	Effect of moisture content on the electromagnetic shielding ability of non-conductive textile structures. Scientific Reports, 2021, 11, 11032.	1.6	5
171	Adaptive Neuro-Fuzzy Inference System to Predict the Release of Microplastic Fibers during Domestic Washing. Journal of Testing and Evaluation, 2022, 50, 91-104.	0.4	5
172	Nonlinear Regression Models. , 2011, , 667-762.		5
173	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
174	Neural network model applied to electromagnetic shielding effectiveness of ultra-light Ni/Cu coated polyester fibrous materials. Scientific Reports, 2022, 12, .	1.6	5
175	Electromechanical analysis of textile structures designed for wearable sensors. , 2014, , .		4
176	Effect of enzyme and plasma treatments of bark cloth from Ficus natalensis: morphology and thermal behavior. Journal of the Textile Institute, 2016, 107, 663-671.	1.0	4
177	Cationization of cellulose fibers for composites. Journal of the Textile Institute, 2017, 108, 1302-1307.	1.0	4
178	Thermal Insulation and Porosity From Macro- to Nanoscale. Hot Topics in Thermal Analysis and Calorimetry, 2017, , 425-448.	0.5	4
179	Flame-resistant pure and hybrid woven fabrics from basalt. IOP Conference Series: Materials Science and Engineering, 2017, 254, 022004.	0.3	4
180	Reinforcement of enzyme hydrolyzed longer jute microcrystals in polylactic acid. Polymer Composites, 2018, 39, 1089-1097.	2.3	4

#	ARTICLE	IF	CITATIONS
181	Improvement and evenness of the side illuminating effect of side emitting optical fibers by fluorescent polyester fabric. <i>Textile Reseach Journal</i> , 2019, 89, 2010-2018.	1.1	4
182	Investigation of thermal comfort properties of fabrics containing mohair. <i>Journal of the Textile Institute</i> , 2022, 113, 616-627.	1.0	4
183	Fabrication of Manganese Oxide/PTFE Hollow Fiber Membrane and Its Catalytic Degradation of Phenol. <i>Materials</i> , 2021, 14, 3651.	1.3	4
184	Preparation of electro sprayed composite coated microporous filter for particulate matter capture. <i>Nano Select</i> , 0, , .	1.9	4
185	A Silver Yarn-Incorporated Song Brocade Fabric with Enhanced Electromagnetic Shielding. <i>Materials</i> , 2021, 14, 3779.	1.3	4
186	Supercooling suppression and mechanical property improvement of phase change nanofibers by optimizing core distribution. <i>Polymer</i> , 2021, 233, 124176.	1.8	4
187	Multicriteria Decision-Making in Complex Quality Evaluation of Ladies Dress Material. <i>Autex Research Journal</i> , 2020, 20, 288-298.	0.6	4
188	Thermal Behavior of Aerogel-Embedded Nonwovens in Cross Airflow. <i>Autex Research Journal</i> , 2021, 21, 115-124.	0.6	4
189	Fabrication of Conductive, High Strength and Electromagnetic Interference (EMI) Shielded Green Composites Based on Waste Materials. <i>Polymers</i> , 2022, 14, 1289.	2.0	4
190	Tailored expanded graphite based PVDF porous composites for potential electrostatic dissipation applications. <i>Diamond and Related Materials</i> , 2022, 125, 108972.	1.8	4
191	Poly(lactic Acid (PLA) Composite Films Reinforced with Wet Milled Jute Nanofibers. <i>Conference Papers in Materials Science</i> , 2013, 2013, 1-6.	0.1	3
192	An approach to electrical resistance measurement eliminating contact resistance problem. , 2014, , .		3
193	Enhancing side illumination of plastic optical fiber by using TiO <sub>2</sub> particles and CO <sub>2</sub> laser. <i>Journal of Laser Applications</i> , 2015, 27, .	0.8	3
194	Preparation of Electro sprayed Microporous Membranes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 460, 012017.	0.3	3
195	Micro-lensed polymeric optical fiber by CO <sub>2</sub> laser cutting. <i>Journal of Laser Applications</i> , 2018, 30, .	0.8	3
196	Thermal and thermo-mechanical characterization of MWCNTs integrated E-glass/carbon fabric reinforced composites. <i>Journal of Industrial Textiles</i> , 2022, 51, 8845S-8864S.	1.1	3
197	Conductive Heat Transfer Prediction of Plain Socks in Wet State. <i>Autex Research Journal</i> , 2022, 22, 391-403.	0.6	3
198	Application of Acoustical Method to Characterize Nonwoven Material. <i>Fibers and Polymers</i> , 2021, 22, 831-840.	1.1	3

#	ARTICLE	IF	CITATIONS
199	Functional Coatings by Natural and Synthetic Agents for Insect Control and Their Applications. Coatings, 2022, 12, 476.	1.2	3
200	Title is missing!. Acta Polymerica, 1980, 31, 546-548.	1.4	2
201	Structural design engineering of woven fabric by soft computing: mathematical manoeuverability to control crimp in the fabric. Journal of the Textile Institute, 2012, 103, 400-404.	1.0	2
202	Flex Fatigue Behavior Of Plastic Optical Fibers With Low Bending Cycles. Autex Research Journal, 2015, 15, 112-115.	0.6	2
203	Lightweight and flexible structures for electromagnetic interference shielding &#x2014; Present state. , 2015, , .		2
204	On the eliminating attempts toward ÅestÃ;kâ€“Berggren equation. Journal of Thermal Analysis and Calorimetry, 2017, 127, 1131-1133.	2.0	2
205	Optical Attenuation of Linear Composites Containing SEPOF. IOP Conference Series: Materials Science and Engineering, 2018, 460, 012035.	0.3	2
206	Selected Application of Linear Composites Containing Side Emitting Optical Fibres. IOP Conference Series: Materials Science and Engineering, 2019, 553, 012002.	0.3	2
207	Effect of particulate fillers on creep behaviour of epoxy composites. Materials Today: Proceedings, 2020, 31, S217-S220.	0.9	2
208	Textile Branch and Main Breakthroughs of the Czech Republic in the Field of Textile Machinery: An Illustrated Review. Textiles, 2021, 1, 466-482.	1.8	2
209	Study on the in-plane shear performance of spacer fabrics in composite forming. Materiali in Tehnologije, 2018, 52, 47-50.	0.3	2
210	Sophisticated Glass Tapes for Fabrication of Composites. Journal of Fiber Bioengineering and Informatics, 2019, 12, 35-42.	0.2	2
211	Acoustical Evaluation and Comparative Study of Maple Leaves and Coir and Polyester Fibers. Journal of Natural Fibers, 2022, 19, 10813-10818.	1.7	2
212	Hybrid Prepreg Tapes for Composite Manufacturing: A Case Study. Materials, 2022, 15, 619.	1.3	2
213	Fabrication and Performance of Phase Change Thermoregulated Fiber from Bicomponent Melt Spinning. Polymers, 2022, 14, 1895.	2.0	2
214	Highly birefringent fiber-based temperature sensor utilizing the wavelength interrogation. , 2015, , .		1
215	Development of Photocatalytic Self-Cleaning Cotton Fabric. Materials Science Forum, 0, 866, 171-175.	0.3	1
216	Empirical Modeling of Sound Absorption Properties of Natural Nonwoven Fabric (&#x2014;Antiaris) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 00	0.3	1

#	ARTICLE	IF	CITATIONS
217	Investigation of Mechanical and Thermomechanical Properties of Nanocellulose Coated Jute/Green Epoxy Composites. , 2018, , 175-194.		1
218	Tensile Properties of Glass Roving and Hybrid Tapes. IOP Conference Series: Materials Science and Engineering, 2019, 553, 012055.	0.3	1
219	Experimental and Modelling Studies on Thermal Insulation and Sound Absorption Properties of Cross-Laid Nonwoven Fabrics. Autex Research Journal, 2021, .	0.6	1
220	Examination of the Thermo-mechanical Properties of E-Glass/Carbon Composites. Tekstilec, 2017, 60, 263-268.	0.3	1
221	Evaluation and Comparison of Acoustic Performance and Thermal Conductivity of Spacer Fabrics. Journal of Fiber Bioengineering and Informatics, 2018, 11, 65-76.	0.2	1
222	Analysis of Basalt and Thermoplastic Hybrid Composites. Journal of Fiber Bioengineering and Informatics, 2018, 11, 163-174.	0.2	1
223	Sound Absorption Properties and Accuracy of Prediction Models on Natural Fiber Based Nonwoven Materials. Journal of Natural Fibers, 2022, 19, 10588-10600.	1.7	1
224	Effect of Cellulose Coating on Properties of Cotton Fabric. Materials Science Forum, 0, 860, 81-84.	0.3	0
225	Aerogel Based High Performance Thermal Insulation Materials. IOP Conference Series: Materials Science and Engineering, 2019, 553, 012043.	0.3	0
226	Nanotechnology in Textile Finishing: Recent Developments. , 2021, , 2509-2539.		0
227	Středověká a novověká artefakty z nedvořstské radnice v České republice a jejich sociálně-ekonomický význam. Archaeologia Historica, 2016, , 7-33.	0.1	0
228	Spectral interferometric fiber optic temperature sensor with enhanced sensitivity. Proceedings of SPIE, 2016, , .	0.8	0
229	Nanotechnology in Textile Finishing: Recent Developments. , 2021, , 1-31.		0
230	Preparation and Characterization of Electrospayed Aerogel/Polytetrafluoroethylene Microporous Materials. Polymers, 2022, 14, 48.	2.0	0
231	Development of new mathematical models and their comparison with existing models for the prediction of compression pressure using the cut-strip method. Textile Research Journal, 0, , 004051752210887.	1.1	0
232	EMI Shielding of the Copper/Nickel-Coated Polyester Nonwoven. Solid State Phenomena, 0, 333, 137-142.	0.3	0