Jakub Wiener

List of Publications by Year
in descending order

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Version: 2024-02-01

76	1,398	361045	395343
papers	citations	20	33
		h-index	g-index

77	77	77	1288
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanocellulose coated woven jute/green epoxy composites: Characterization of mechanical and dynamic mechanical behavior. Composite Structures, 2017, 161, 340-349.	3.1	131
2	Coating of cellulose-TiO2 nanoparticles on cotton fabric for durable photocatalytic self-cleaning and stiffness. Carbohydrate Polymers, 2016, 150, 107-113.	5.1	86
3	UV protection properties of silk fabric dyed with eucalyptus leaf extract. Journal of the Textile Institute, 2011, 102, 272-279.	1.0	71
4	Dyeing and fastness properties of natural dyes extracted from eucalyptus leaves using padding techniques. Fibers and Polymers, 2010, 11, 346-350.	1.1	69
5	Influence of plasma sputtering treatment on natural dyeing and antibacterial activity of wool fabrics. Progress in Organic Coatings, 2011, 70, 388-393.	1.9	56
6	In-situ development of highly photocatalytic multifunctional nanocomposites by ultrasonic acoustic method. Ultrasonics Sonochemistry, 2018, 40, 41-56.	3.8	47
7	Structural design of efficient fog collectors: A review. Environmental Technology and Innovation, 2020, 20, 101169.	3.0	42
8	Bio-Composites Reinforced with Natural Fibers: Comparative Analysis of Thermal, Static and Dynamic-Mechanical Properties. Fibers and Polymers, 2020, 21, 619-627.	1.1	42
9	Optimal Design of Multilayer Fog Collectors. ACS Applied Materials & Interfaces, 2020, 12, 7736-7743.	4.0	42
10	Static and dynamic mechanical properties of novel treated jute/green epoxy composites. Textile Reseach Journal, 2016, 86, 960-974.	1.1	37
11	Sonochemical synthesis of highly crystalline photocatalyst for industrial applications. Ultrasonics, 2018, 83, 203-213.	2.1	37
12	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
13	Improving synthetic and natural dyeability of polyester fabrics by dielectric barrier discharge. Journal of Plastic Film and Sheeting, 2015, 31, 286-308.	1.3	33
14	Ozone treatment of jute fibers. Cellulose, 2017, 24, 1543-1553.	2.4	32
15	Growth of ZnO nanorods on cotton fabrics via microwave hydrothermal method: effect of size and shape of nanorods on superhydrophobic and UV-blocking properties. Cellulose, 2020, 27, 10519-10539.	2.4	30
16	Review: incorporation of organic PCMs into textiles. Journal of Materials Science, 2022, 57, 798-847.	1.7	29
17	Decolourization of vat dyes on cotton fabric with infrared laser light. Cellulose, 2011, 18, 469-478.	2.4	27
18	Antibacterial Agents in Textile Industry. , 0, , .		26

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19	Structural analysis of embedding polyethylene glycol in silica aerogel. Microporous and Mesoporous Materials, 2021, 310, 110636.	2.2	26
20	Removal of methylene blue from aqueous media using activated carbon web. Journal of the Textile Institute, 2017, 108, 803-811.	1.0	24
21	Self-cleaning properties of polyester fabrics coated with flower-like TiO₂ particles and trimethoxy (octadecyl)silane. Journal of Industrial Textiles, 2020, 50, 543-565.	1.1	24
22	Dyeing of Wool and Silk by Eucalyptus Leaves Extract. Journal of Natural Fibers, 2009, 6, 319-330.	1.7	22
23	Development of Maghemite Glass Fibre Nanocomposite for Adsorptive Removal of Methylene Blue. Fibers and Polymers, 2018, 19, 1735-1746.	1.1	21
24	Development of durable superhydrophobic and UV protective cotton fabric via TiO₂/trimethoxy(octadecyl)silane nanocomposite coating. Journal of the Textile Institute, 2021, 112, 1639-1650.	1.0	20
25	Flame resistance behavior of cotton fabrics coated with bilayer assemblies of ammonium polyphosphate and casein. Cellulose, 2019, 26, 3557-3574.	2.4	19
26	Thermal analysis of PEG/Metal particle-coated viscose fabric. Polymer Testing, 2021, 100, 107231.	2.3	19
27	Natural Dye from Eucalyptus Leaves and Application for Wool Fabric Dyeing by Using Padding Techniques. , 0, , .		18
28	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
29	Dyeing and stiffness characteristics of cellulose-coated cotton fabric. Cellulose, 2016, 23, 981-992.	2.4	17
30	Surface Modification of Poly Vinyl Chloride (PVC) Using Low Pressure Argon and Oxygen Plasma. Plasma Science and Technology, 2010, 12, 204-207.	0.7	15
31	LIBS analysis of chromium in samples of dyed wool fabric. Journal of Analytical Atomic Spectrometry, 2009, 24, 685.	1.6	14
32	Ultrasonically Assisted In Situ Deposition of ZnO Nano Particles on Cotton Fabrics for Multifunctional Textiles. Fibers and Polymers, 2021, 22, 77-86.	1.1	14
33	A Review of Impact of Textile Research on Protective Face Masks. Materials, 2021, 14, 1937.	1.3	13
34	Development of carboxymethyl cellulose/ polyphenols gels for textile applications. Autex Research Journal, 2013, 13, 33-36.	0.6	12
35	Adsorption Kinetics of Acid Red on Activated Carbon Web Prepared from Acrylic Fibrous Waste. Fibers and Polymers, 2018, 19, 71-81.	1.1	12
36	Comparative performance of flame retardancy, physiological comfort, and durability of cotton textiles treated with alkaline and acidic casein suspension. Journal of Industrial Textiles, 2019, 48, 969-991.	1.1	12

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37	Preparation of core-sheath nanofibers with high latent heat by thermal cross-linking and coaxial electrospinning. Polymer, 2021, 228, 123958.	1.8	12
38	Sorption properties of iron impregnated activated carbon web for removal of methylene blue from aqueous media. Fibers and Polymers, 2016, 17, 1245-1255.	1.1	11
39	Influence of Weave Design and Yarn Types on Mechanical and Surface Properties of Woven Fabric. Fibres and Textiles in Eastern Europe, 2018, 26, 42-45.	0.2	11
40	Development of Antimicrobial Multifunctional Textiles to Avoid from Hospital-Acquired Infections. Fibers and Polymers, 2021, 22, 3055-3067.	1.1	10
41	One Step In-Situ Synthesis of Zinc Oxide Nanoparticles for Multifunctional Cotton Fabrics. Materials, 2021, 14, 3956.	1.3	10
42	Hydrophilization of Polyester Textiles by Nonthermal Plasma. Autex Research Journal, 2021, 21, 142-149.	0.6	10
43	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
44	Short-term creep of barkcloth reinforced laminar epoxy composites. Composites Part B: Engineering, 2016, 103, 131-138.	5.9	9
45	Ozone Effect On the Properties of Aramid Fabric. Autex Research Journal, 2017, 17, 164-169.	0.6	8
46	Crystallization mechanism of micro flake Cu particle-filled poly(ethylene glycol) composites. Thermochimica Acta, 2022, 710, 179172.	1.2	8
47	Properties of cotton fabric after irradiation with infrared CO2 laser. Fibers and Polymers, 2014, 15, 2072-2076.	1.1	7
48	Utility of whiskerized carbon fabric surfaces in resistive heating of composites. Polymer Composites, 2021, 42, 2774-2786.	2.3	7
49	Ozonation: a Green Source for Oxidized Cotton. Fibres and Textiles in Eastern Europe, 2016, 24, 19-21.	0.2	7
50	Surface wettability of vertical harps for fog collection. Surfaces and Interfaces, 2022, 30, 101842.	1.5	7
51	Langmuir isotherm models applied to the sorption of acid dyes from effluent onto polyamide nanofibers. Autex Research Journal, 2013, 13, 95-98.	0.6	6
52	3D Numerical Simulation of Laminar Flow and Conjugate Heat Transfer through Fabric. Autex Research Journal, 2017, 17, 53-60.	0.6	6
53	Properties of modified carboxymethyl cellulose prepared by lyophilisation. Autex Research Journal, 2013, 13, 79-81.	0.6	5
54	Investigation on laser engraving based application of silica aerogel into nonwovens. Fibers and Polymers, 2017, 18, 2469-2475.	1.1	5

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55	Compression resilience and impact resistance of fiberâ€reinforced sandwich composites. Polymers for Advanced Technologies, 2019, 30, 3073-3082.	1.6	5
56	Flame Retardancy, Physiological Comfort and Durability of Casein Treated Cotton Fabrics. Fibers and Polymers, 2019, 20, 1011-1020.	1.1	5
57	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
58	Effect of moisture content on the electromagnetic shielding ability of non-conductive textile structures. Scientific Reports, 2021, 11, 11032.	1.6	5
59	Effect of enzyme and plasma treatments of bark cloth fromFicus natalensis: morphology and thermal behavior. Journal of the Textile Institute, 2016, 107, 663-671.	1.0	4
60	Cationization of cellulose fibers for composites. Journal of the Textile Institute, 2017, 108, 1302-1307.	1.0	4
61	Reinforcement of enzyme hydrolyzed longer jute microcrystals in polylactic acid. Polymer Composites, 2018, 39, 1089-1097.	2.3	4
62	Fabrication of Manganese Oxide/PTFE Hollow Fiber Membrane and Its Catalytic Degradation of Phenol. Materials, 2021, 14, 3651.	1.3	4
63	Enhancing side illumination of plastic optical fiber by using TiO2 particles and CO2 laser. Journal of Laser Applications, 2015, 27, .	0.8	3
64	Micro-lensed polymeric optical fiber by CO2 laser cutting. Journal of Laser Applications, 2018, 30, .	0.8	3
65	Effect of Electron Irradiation on Polypropylene Films. Plasma Science and Technology, 2011, 13, 194-196.	0.7	2
66	Application of the laser-induced breakdown spectroscopy method in the analysis of carbon and titanium in textile structures. Textile Reseach Journal, 2012, 82, 1092-1098.	1.1	2
67	Multilayer assembly for protection against laser light. Journal of the Textile Institute, 2020, 111, 226-234.	1.0	2
68	Buffering and Antibacterial Properties of Cotton Canvas with Dolomite/ZnO-Styrene-Acrylic Complex Coating and their Comparison with Properties after the Accelerated Aging. Tekstilec, 2017, 60, 275-282.	0.3	2
69	Effect of a Superabsorbent for the Improvement of Car Seat Thermal Comfort. Fibres and Textiles in Eastern Europe, 2017, 25, 83-87.	0.2	2
70	Contact angle hysteresis on plasma treated polyethylene terephthalate. E-Polymers, 2012, 12, .	1.3	1
71	A novel method for preparing the antibacterial glass fibre mat using laser treatment. EPJ Applied Physics, 2014, 65, 20501.	0.3	1
72	Development of Photocatalytic Self-Cleaning Cotton Fabric. Materials Science Forum, 0, 866, 171-175.	0.3	1

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73	Antibacterial easy adjustable woven compression bandage for venous leg ulcers. Journal of Industrial Textiles, 0, , 152808372210952.	1.1	1
74	Mechanical Properties Of Traditional And Nanofibre Textiles. Autex Research Journal, 2015, 15, 198-206.	0.6	0
75	Preparation and Characterization of Electrosprayed Aerogel/Polytetrafluoroethylene Microporous Materials. Polymers, 2022, 14, 48.	2.0	0
76	Adsorption Kinetics of an Activated Carbon Glass Composite Prepared Using Acrylic Waste Through Laser Treatment. Fibres and Textiles in Eastern Europe, 2021, 29, 81-89.	0.2	0