

Weidong Gao

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116
papers

1,125
citations

18
h-index

26
g-index

130
ext. papers

1,366
ext. citations

2.5
avg, IF

4.67
L-index

| # | Paper | IF | Citations |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 116 | Large-Scale Synthesis and Raman and Photoluminescence Properties of Single Crystalline BiC Nanowires Periodically Wrapped by Amorphous SiO ₂ Nanospheres 2. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 91-96 | 3.8 | 64 |
| 115 | Preparation and characterization of electrospinning PLA/curcumin composite membranes. <i>Fibers and Polymers</i> , 2010 , 11, 1128-1131 | 2 | 54 |
| 114 | Preparation and characterization of silver nanocomposite textile 2007 , 4, 101-106 | | 50 |
| 113 | Automatic recognition of woven fabric pattern based on image processing and BP neural network. <i>Journal of the Textile Institute</i> , 2011 , 102, 19-30 | 1.5 | 36 |
| 112 | Surface functionalization of silk fabric by PTFE sputter coating. <i>Journal of Materials Science</i> , 2007 , 42, 8025-8028 | 4.3 | 36 |
| 111 | Microfibers: a preliminary discussion on their definition and sources. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 29497-29501 | 5.1 | 30 |
| 110 | Evaluation of drug release property and blood compatibility of aspirin-loaded electrospun PLA/RSF composite nanofibers. <i>Iranian Polymer Journal (English Edition)</i> , 2013 , 22, 729-737 | 2.3 | 28 |
| 109 | Structural characterization and dynamic water adsorption of electrospun polyamide6/montmorillonite nanofibers. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 3535-3540 | 2.9 | 27 |
| 108 | Cellulose nanocrystals functionalized with amino-silane and epoxy-poly(ethylene glycol) for reinforcement and flexibilization of poly(lactic acid): material preparation and compatibility mechanism. <i>Cellulose</i> , 2018 , 25, 6447-6463 | 5.5 | 26 |
| 107 | Poly(lactic acid)-based biocomposites reinforced with modified cellulose nanocrystals. <i>Cellulose</i> , 2017 , 24, 4773-4784 | 5.5 | 25 |
| 106 | Fabric Image Retrieval System Using Hierarchical Search Based on Deep Convolutional Neural Network. <i>IEEE Access</i> , 2019 , 7, 35405-35417 | 3.5 | 24 |
| 105 | Influences of organic-modified Fe-montmorillonite on structure, morphology and properties of polyacrylonitrile nanocomposite fibers. <i>Fibers and Polymers</i> , 2009 , 10, 750-755 | 2 | 24 |
| 104 | Preparation and blood compatibility of electrospun PLA/curcumin composite membranes. <i>Fibers and Polymers</i> , 2012 , 13, 1254-1258 | 2 | 23 |
| 103 | Comparison Between Structures and Properties of ABS Nanocomposites Derived from Two Different Kinds of OMT. <i>Journal of Materials Engineering and Performance</i> , 2010 , 19, 171-176 | 1.6 | 23 |
| 102 | Influence of combined enzymatic treatment on one-bath scouring of cotton knitted fabrics. <i>Biocatalysis and Biotransformation</i> , 2007 , 25, 9-15 | 2.5 | 23 |
| 101 | Antibacterial properties of PLA nonwoven medical dressings coated with nanostructured silver. <i>Fibers and Polymers</i> , 2008 , 9, 556-560 | 2 | 21 |
| 100 | Automatic inspection of double-system-mlange yarn-dyed fabric density with color-gradient image. <i>Fibers and Polymers</i> , 2011 , 12, 127-131 | 2 | 18 |

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| 99 | Structure, Thermal, and Antibacterial Properties of Polyacrylonitrile/Ferric Chloride Nanocomposite Fibers by Electrospinning. <i>International Journal of Polymer Analysis and Characterization</i> , 2010 , 15, 110-118 | 1.7 | 18 |
| 98 | Cellulose nanocrystals modified with a triazine derivative and their reinforcement of poly(lactic acid)-based bionanocomposites. <i>Cellulose</i> , 2018 , 25, 2965-2976 | 5.5 | 17 |
| 97 | Effects of ferric chloride on structure, surface morphology and combustion property of electrospun polyacrylonitrile composite nanofibers. <i>Fibers and Polymers</i> , 2011 , 12, 145-150 | 2 | 17 |
| 96 | Automatic recognition of the color effect of yarn-dyed fabric by the smallest repeat unit recognition algorithm. <i>Textile Reseach Journal</i> , 2015 , 85, 432-446 | 1.7 | 16 |
| 95 | Automatic recognition of woven fabric patterns based on pattern database. <i>Fibers and Polymers</i> , 2010 , 11, 303-308 | 2 | 16 |
| 94 | Cellulose nanocrystals modified with quaternary ammonium salts and its reinforcement of polystyrene. <i>Polymer Bulletin</i> , 2018 , 75, 2151-2166 | 2.4 | 16 |
| 93 | Dynamic measurement of fabric wrinkle recovery angle by video sequence processing. <i>Textile Reseach Journal</i> , 2014 , 84, 694-703 | 1.7 | 15 |
| 92 | Numerical simulation of a three-dimensional flow field in compact spinning with a perforated drum: Effect of a guiding device. <i>Textile Reseach Journal</i> , 2013 , 83, 2093-2108 | 1.7 | 15 |
| 91 | An eco-friendly way to whiten yellowish anti-wrinkle cotton fabrics using TBCC-activated peroxide low-temperature post-bleaching. <i>Cellulose</i> , 2019 , 26, 3575-3588 | 5.5 | 15 |
| 90 | Automatic inspection of yarn-dyed fabric density by mathematical statistics of sub-images. <i>Journal of the Textile Institute</i> , 2015 , 106, 823-834 | 1.5 | 14 |
| 89 | Process optimization of ultrasound-assisted alcoholic-alkaline treatment for granular cold water swelling starches. <i>Ultrasonics Sonochemistry</i> , 2017 , 38, 579-584 | 8.9 | 13 |
| 88 | Automatic detection of layout of color yarns of yarn-dyed fabric. Part 1: Single-system-mlange color fabrics. <i>Color Research and Application</i> , 2015 , 40, 626-636 | 1.3 | 13 |
| 87 | Exploring the relationship between bending property and crease recovery of woven fabrics. <i>Journal of the Textile Institute</i> , 2015 , 106, 1173-1179 | 1.5 | 13 |
| 86 | Characterization of PVAc/TiO ₂ hybrid nanofibers: From fibrous morphologies to molecular structures. <i>Journal of Applied Polymer Science</i> , 2009 , 112, 1481-1485 | 2.9 | 13 |
| 85 | Microfiber pollution: an ongoing major environmental issue related to the sustainable development of textile and clothing industry. <i>Environment, Development and Sustainability</i> , 2021 , 23, 11240-11256 | 4.5 | 13 |
| 84 | Preparation, characterization of antibacterial PLA/TP nanofibers. <i>Fibers and Polymers</i> , 2011 , 12, 340-344 | 2 | 12 |
| 83 | A multi-task and multi-scale convolutional neural network for automatic recognition of woven fabric pattern. <i>Journal of Intelligent Manufacturing</i> , 2021 , 32, 1147-1161 | 6.7 | 11 |
| 82 | Whitening citric acid treated cotton fabrics by a TBCC-activated peroxide post-bleaching. <i>Cellulose</i> , 2020 , 27, 5367-5376 | 5.5 | 10 |

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| 81 | Automatic detection of layout of color yarns of yarn-dyed fabric. Part 2: Region segmentation of double-system-Mlange color fabric. <i>Color Research and Application</i> , 2016 , 41, 626-635 | 1.3 | 10 |
| 80 | Preparation of silica micro spheres via a semibatch sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2017 , 81, 669-677 | 2.3 | 10 |
| 79 | Woven Fabric Density Measurement by Using Multi-Scale Convolutional Neural Networks. <i>IEEE Access</i> , 2019 , 7, 75810-75821 | 3.5 | 9 |
| 78 | 5-Aminolevulinic Acid-Mediated Sonodynamic Therapy Promotes Phenotypic Switching from Dedifferentiated to Differentiated Phenotype via Reactive Oxygen Species and p38 Mitogen-Activated Protein Kinase in Vascular Smooth Muscle Cells. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 1681-9 | 3.5 | 9 |
| 77 | An automatic scheduling method for weaving enterprises based on genetic algorithm. <i>Journal of the Textile Institute</i> , 2015 , 106, 1377-1387 | 1.5 | 9 |
| 76 | Antimicrobial activity and mechanism of PLA/TP composite nanofibrous films. <i>Journal of the Textile Institute</i> , 2014 , 105, 196-202 | 1.5 | 9 |
| 75 | Genetic algorithm-based detection of the layout of color yarns. <i>Journal of the Textile Institute</i> , 2011 , 102, 172-179 | 1.5 | 9 |
| 74 | Analysis of curve parameters to characterize multidirectional fabric wrinkling by a double extraction method. <i>Textile Reseach Journal</i> , 2019 , 89, 2973-2982 | 1.7 | 9 |
| 73 | Effects of Snailase Treatment on Wettability of Raw Cotton Yarns in Pre-wetting Process of Foam Sizing. <i>Applied Biochemistry and Biotechnology</i> , 2017 , 182, 1065-1075 | 3.2 | 8 |
| 72 | Hierarchically Structured and Scalable Artificial Muscles for Smart Textiles. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 54386-54395 | 9.5 | 8 |
| 71 | Wicking Behaviors of Ring and Compact-Siro Ring Spun Yarns with Different Twists. <i>Autex Research Journal</i> , 2019 , 19, 68-73 | 1 | 8 |
| 70 | Improved dyeing of poly-m-phenyleneisophthalamide using cationic dye based on macro-cation dyeing mechanism. <i>Dyes and Pigments</i> , 2019 , 163, 111-117 | 4.6 | 8 |
| 69 | Reducing yarn hairiness in ring spinning by an agent-aided system. <i>Textile Reseach Journal</i> , 2019 , 89, 4438-4451 | 1.7 | 7 |
| 68 | Clothing Attribute Recognition Based on RCNN Framework Using L-Softmax Loss. <i>IEEE Access</i> , 2020 , 8, 48299-48313 | 3.5 | 7 |
| 67 | Multi-perspective measurement of yarn hairiness using mirrored images. <i>Textile Reseach Journal</i> , 2018 , 88, 621-629 | 1.7 | 7 |
| 66 | A computer vision-based system for automatic detection of misarranged warp yarns in yarn-dyed fabric. Part I: continuous segmentation of warp yarns. <i>Journal of the Textile Institute</i> , 2018 , 109, 577-584 ^{1.5} | 1.5 | 7 |
| 65 | Physical properties of Al-doped ZnO films deposited on nonwoven substrates by radio frequency magnetron sputtering 2008 , 5, 393-397 | | 7 |
| 64 | Image retrieval of wool fabric. Part I: Based on low-level texture features. <i>Textile Reseach Journal</i> , 2019 , 89, 4195-4207 | 1.7 | 7 |

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| 63 | Fabric seam detection based on wavelet transform and CIELAB color space: A comparison. <i>Optik</i> , 2015 , 126, 5650-5655 | 2.5 | 6 |
| 62 | Exploring the mechanism of pullulan delay potato starch long-term retrogradation from the viewpoint of amylopectin chain motion. <i>International Journal of Biological Macromolecules</i> , 2020 , 145, 84-91 | 7.9 | 6 |
| 61 | Determination of optimal system parameters to characterize the wrinkle recovery of fabrics by an integrated shape retention evaluation system. <i>Textile Reseach Journal</i> , 2020 , 90, 91-100 | 1.7 | 6 |
| 60 | Weave pattern recognition by measuring fiber orientation with Fourier transform. <i>Journal of the Textile Institute</i> , 2017 , 108, 622-630 | 1.5 | 5 |
| 59 | Instrumental evaluation of fabric shape retention by image analysis. <i>Textile Reseach Journal</i> , 2020 , 90, 2376-2384 | 1.7 | 5 |
| 58 | Effect of pullulan on molecular chain conformations in the process of starch retrogradation condensed matter. <i>International Journal of Biological Macromolecules</i> , 2019 , 138, 736-743 | 7.9 | 5 |
| 57 | Image analysis measurement of cottonseed coat fragments in 100% cotton woven fabric. <i>Fibers and Polymers</i> , 2013 , 14, 1208-1214 | 2 | 5 |
| 56 | Improving the hydrophobicity of nylon fabric by consecutive treatment with poly(acrylic acid), tetraethylorthosilicate, and octadecylamine. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a | 2.9 | 5 |
| 55 | Image retrieval of wool fabric. Part II: based on low-level color features. <i>Textile Reseach Journal</i> , 2020 , 90, 797-808 | 1.7 | 5 |
| 54 | In-situ characterization of handle characteristics of suiting woven fabrics by a simultaneous measurement method. <i>Textile Reseach Journal</i> , 2019 , 89, 2522-2531 | 1.7 | 5 |
| 53 | Pattern design and optimization of yarn-dyed plaid fabric using modified interactive genetic algorithm. <i>Journal of the Textile Institute</i> , 2020 , 111, 1652-1661 | 1.5 | 4 |
| 52 | Automatic Assessment of Fabric Smoothness Appearance Based on a Compact Convolutional Neural Network With Label Smoothing. <i>IEEE Access</i> , 2020 , 8, 26966-26974 | 3.5 | 4 |
| 51 | Optimization of Operational Parameters of Foam Sizing Process for Cotton Yarns Based on Plackett-Burman Experiment Design. <i>Autex Research Journal</i> , 2018 , 18, 61-66 | 1 | 4 |
| 50 | Numerical simulation of flow field in complete condensing spinning: effects of suction unit and guiding device. <i>Journal of the Textile Institute</i> , 2016 , 107, 811-824 | 1.5 | 4 |
| 49 | Sequential image for measurement of fabric crease recovery angle. <i>Journal of the Textile Institute</i> , 2016 , 107, 825-832 | 1.5 | 4 |
| 48 | Proactive Mobility Management Based on Virtual Cells in SDN-Enabled Ultra-Dense Networks 2019 , | | 4 |
| 47 | Optimization of an alcoholic-alkaline freeze-drying treatment for granular cold-water swelling starches. <i>Starch/Staerke</i> , 2017 , 69, 1600198 | 2.3 | 4 |
| 46 | Airflow Characteristics During the Rotor Spun Composite Yarn Spinning Process. <i>Fibres and Textiles in Eastern Europe</i> , 2017 , 25, 13-17 | 0.9 | 4 |

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| 45 | Decoloration of Multi-Color Fabric Images for Fabric Appearance Smoothness Evaluation by Supervised Image-to-Image Translation. <i>IEEE Access</i> , 2019 , 7, 181284-181294 | 3.5 | 4 |
| 44 | Color Prediction for Pre-Colored Cotton Fiber Blends Based on Improved Kubelka-Munk Double-Constant Theory. <i>Fibers and Polymers</i> , 2021 , 22, 412-420 | 2 | 4 |
| 43 | Comment on "A planet too rich in fiber". <i>EMBO Reports</i> , 2019 , 20, | 6.5 | 3 |
| 42 | An intelligent computer method for automatic mosaic of sequential slub yarn images based on image processing. <i>Textile Reseach Journal</i> , 2018 , 88, 2854-2866 | 1.7 | 3 |
| 41 | Process optimization of ultrasound-assisted treatment for soya bean protein isolate/polyacrylamide composite film. <i>Royal Society Open Science</i> , 2018 , 5, 180213 | 3.3 | 3 |
| 40 | Intelligent recognition of the patterns of yarn-dyed fabric based on LSRT images. <i>Journal of Engineered Fibers and Fabrics</i> , 2019 , 14, 155892501984065 | 0.9 | 3 |
| 39 | Xylanase- and cellulose-aided bioprocessing of bamboo. <i>Engineering in Life Sciences</i> , 2015 , 15, 605-611 | 3.4 | 3 |
| 38 | In situ characterization of the morphological wrinkling of woven fibrous materials by a mechanical test. <i>Textile Reseach Journal</i> , 2020 , 90, 2085-2096 | 1.7 | 3 |
| 37 | Fabric Retrieval Based on Multi-Task Learning. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 1570-1582 | 2.7 | 3 |
| 36 | Dynamic Measurement of Foam-Sized Yarn Properties from Yarn Sequence Images. <i>Autex Research Journal</i> , 2018 , 18, 314-322 | 1 | 3 |
| 35 | An adhesive-aided ring spinning for improving cotton yarn quality with the aid of sodium carboxymethyl cellulose solution. <i>Journal of Engineered Fibers and Fabrics</i> , 2020 , 15, 155892502092783 | 0.9 | 2 |
| 34 | Exploring the role of pullulan in the process of potato starch film formation. <i>Carbohydrate Polymers</i> , 2020 , 234, 115910 | 10.3 | 2 |
| 33 | Numerical simulation and analysis of the dynamic finite element model of the fiber motion in the air spinning process. <i>Textile Reseach Journal</i> , 2019 , 89, 1198-1206 | 1.7 | 2 |
| 32 | Image analysis for seam-puckering evaluation. <i>Textile Reseach Journal</i> , 2017 , 87, 2513-2523 | 1.7 | 2 |
| 31 | Color separation for colored fiber blends based on the fuzzy C-means cluster. <i>Color Research and Application</i> , 2012 , 37, 212-218 | 1.3 | 2 |
| 30 | Color matching for colored fiber blends based on the fuzzy c-mean cluster in HSV color space 2010 , | | 2 |
| 29 | Structure and Morphological Evolvment of Electrospun Polyacrylonitrile/Organic Modified Fe-Montmorillonite Composite Carbon Nanofibers. <i>International Journal of Polymer Analysis and Characterization</i> , 2011 , 16, 24-35 | 1.7 | 2 |
| 28 | Depth recovery of hairy fibers for precise yarn hairiness measurement. <i>Applied Optics</i> , 2018 , 57, 7021-7029 | 2.9 | 2 |

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| 27 | Beyond the Definition of Microfiber Pollution is More Research. <i>AATCC Review</i> , 2019 , 19, 49-52 | 1.3 | 2 |
| 26 | Evaluation of an Intelligent Computer Method for the Automatic Mosaic of Sequential Slub Yarn Images. <i>Fibres and Textiles in Eastern Europe</i> , 2018 , 26, 38-48 | 0.9 | 2 |
| 25 | Yarn-Dyed Fabric Image Retrieval Using Colour Moments and the Perceptual Hash Algorithm. <i>Fibres and Textiles in Eastern Europe</i> , 2019 , 27, 60-69 | 0.9 | 2 |
| 24 | Effect of yarn structure on the liquid moisture transport in yarns. <i>Journal of the Textile Institute</i> , 1-6 | 1.5 | 2 |
| 23 | Patterned fabric image retrieval using relevant feedback via geometric similarity. <i>Textile Research Journal</i> , 004051752110362 | 1.7 | 2 |
| 22 | Established an eco-friendly cotton fabric treating process with enhancing anti-wrinkle performance. <i>Journal of Engineered Fibers and Fabrics</i> , 2021 , 16, 155892502110034 | 0.9 | 2 |
| 21 | Objective Evaluation of Fabric Wrinkles Based on 2-D Gabor Transform. <i>Fibers and Polymers</i> , 2020 , 21, 2138-2146 | 2 | 1 |
| 20 | Inspecting anisotropy in wrinkle recovery angle of woven fabric. <i>Journal of the Textile Institute</i> , 2016 , 107, 711-718 | 1.5 | 1 |
| 19 | Synergy of Silane and Polyacrylate Treatments to Prepare Thermally Stable and Hydrophobic Cellulose Nanocrystals. <i>Chemistry Letters</i> , 2018 , 47, 1272-1275 | 1.7 | 1 |
| 18 | Pattern retrieval of yarn-dyed plaid fabric based on modified interactive genetic algorithm. <i>Color Research and Application</i> , 2020 , 45, 1143-1152 | 1.3 | 1 |
| 17 | Measurement of long yarn hair based on hairiness segmentation and hairiness tracking. <i>Journal of the Textile Institute</i> , 2016 , 1-9 | 1.5 | 1 |
| 16 | Optimizing parameters of warp fatigue life tester by response surface methodology. <i>Journal of Engineered Fibers and Fabrics</i> , 2019 , 14, 155892501989380 | 0.9 | 1 |
| 15 | Numerical simulation of the fiber trajectories in vortex spinning under different process parameters based on the finite element model. <i>Textile Research Journal</i> , 2019 , 89, 2626-2636 | 1.7 | 1 |
| 14 | Analysis of the influence of the guided needle structure on the vortex spinning process and yarn properties. <i>Textile Research Journal</i> , 2019 , 89, 1246-1257 | 1.7 | 1 |
| 13 | Color matching of vortex spun yarn and ring spun yarn by the composition of dope-dyed fiber. <i>Journal of the Textile Institute</i> , 2020 , 111, 172-177 | 1.5 | 1 |
| 12 | Recognition of the layout of colored yarns in yarn-dyed fabrics. <i>Textile Research Journal</i> , 2021 , 91, 100-114 | 1.7 | 1 |
| 11 | Automatic recognition of woven fabric structural parameters: a review. <i>Artificial Intelligence Review</i> , 1 | 9.7 | 1 |
| 10 | . <i>IEEE Access</i> , 2020 , 8, 110678-110692 | 3.5 | 0 |

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| 9 | Clothing recognition based on deep sparse convolutional neural network. <i>International Journal of Clothing Science and Technology</i> , 2022 , 34, 119-133 | 0.7 | 0 |
| 8 | Detection of residual yarn on spinning bobbins based on salient region detection. <i>Journal of the Textile Institute</i> , 2019 , 110, 838-846 | 1.5 | |
| 7 | Analysis of Adhesion Effect of Solution on Cotton Fibers in Adhesive-aided Ring Spinning. <i>Fibers and Polymers</i> , 2021 , 22, 2323-2332 | 2 | |
| 6 | Study on Gathering-and-twisting Mechanism of Fibers and CMC-Na/PAM/PVA Solution Optimization for Enhancing Cotton Yarn Performance by Adhesive-aided Ring Spinning. <i>Fibers and Polymers</i> ,1 | 2 | |
| 5 | K-M theory of fabric knitted by three-channel rotor spun wool yarn. <i>Color Research and Application</i> , 2019 , 44, 243-248 | 1.3 | |
| 4 | Automated woven fabric texture periodicity extraction by spectral analysis and patch-DMF. <i>Journal of the Textile Institute</i> ,1-23 | 1.5 | |
| 3 | Effect of yarn structure, arrangement and surface on liquid moisture transfer in fabrics. <i>Journal of the Textile Institute</i> ,1-8 | 1.5 | |
| 2 | Evaluation of bamboo water-retting for fiber bundle extraction. <i>Textile Reseach Journal</i> ,004051752110620 | | |
| 1 | Mlange fabric image retrieval based on soft similarity learning. <i>Journal of Engineered Fibers and Fabrics</i> , 2022 , 17, 155892502210888 | 0.9 | |