# Hong Hu

List of Publications by Year
in descending order



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|---|---|---|---|
| 182 papers | 8,332 citations | 53794 45 h-index | 58581 82 g-index |
| 194 all docs | 194 docs citations | 194 times ranked | 8413 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | From Industrially Weavable and Knittable Highly Conductive Yarns to Large Wearable Energy Storage Textiles. ACS Nano, 2015, 9, 4766-4775. | 14.6 | 411 |
| 2 | Weavable, Conductive Yarn-Based NiCo//Zn Textile Battery with High Energy Density and Rate Capability. ACS Nano, 2017, 11, 8953-8961. | 14.6 | 310 |
| 3 | High-performance stretchable yarn supercapacitor based on PPy@CNTs@urethane elastic fiber core spun yarn. Nano Energy, 2016, 27, 230-237. | 16.0 | 297 |
| 4 | Magnetic-Assisted, Self-Healable, Yarn-Based Supercapacitor. ACS Nano, 2015, 9, 6242-6251. | 14.6 | 291 |
| 5 | Recent progresses in high-energy-density all pseudocapacitive-electrode-materials-based asymmetric supercapacitors. Journal of Materials Chemistry A, 2017, 5, 9443-9464. | 10.3 | 278 |
| 6 | Synthesis and stabilization of metal nanocatalysts for reduction reactions â€“ a review. Journal of Materials Chemistry A, 2015, 3, 11157-11182. | 10.3 | 264 |
| 7 | Polyurethane/Cotton/Carbon Nanotubes Core-Spun Yarn as High Reliability Stretchable Strain Sensor for Human Motion Detection. ACS Applied Materials & Interfaces, 2016, 8, 24837-24843. | 8.0 | 251 |
| 8 | X-ray diffraction study of bamboo fibers treated with NaOH. Fibers and Polymers, 2008, 9, 735-739. | 2.1 | 228 |
| 9 | Stretchable Conductors with Ultrahigh Tensile Strain and Stable Metallic Conductance Enabled by Prestrained Polyelectrolyte Nanoplatforms. Advanced Materials, 2011, 23, 3090-3094. | 21.0 | 196 |
| 10 | Auxetic materials and their potential applications in textiles. Textile Reseach Journal, 2014, 84, 1600-1611. | 2.2 | 180 |
| 11 | Glutaraldehydeâ€“chitosan and poly (vinyl alcohol) blends, and fluorescence of their nano-silica composite films. Carbohydrate Polymers, 2013, 91, 305-313. | 10.2 | 127 |
| 12 | Metal-free graphene-based catalystâ€”Insight into the catalytic activity: A short review. Applied Catalysis A: General, 2015, 492, 1-9. | 4.3 | 123 |
| 13 | Formation of Carbon Clusters in the Initial Stage of Chemical Vapor Deposition Graphene Growth on Ni(111) Surface. Journal of Physical Chemistry C, 2011, 115, 17695-17703. | 3.1 | 119 |
| 14 | A high performance fiber-shaped PEDOT@MnO<sub>2</sub>//C@Fe<sub>3</sub>O<sub>4</sub>asymmetric supercapacitor for wearable electronics. Journal of Materials Chemistry A, 2016, 4, 14877-14883. | 10.3 | 118 |
| 15 | Compression behavior of warp-knitted spacer fabrics for cushioning applications. Textile Reseach Journal, 2012, 82, 11-20. | 2.2 | 108 |
| 16 | Impact compressive behavior of warp-knitted spacer fabrics for protective applications. Textile Reseach Journal, 2012, 82, 773-788. | 2.2 | 108 |
| 17 | 3D spacer fabric based multifunctional triboelectric nanogenerator with great feasibility for mechanized large-scale production. Nano Energy, 2016, 27, 439-446. | 16.0 | 107 |
| 18 | Tailoring band gap in GaN sheet by chemical modification and electric field: Ab initio calculations. Applied Physics Letters, 2011, 98, . | 3.3 | 105 |

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|---|---|---|---|
| 19 | PAM/graphene/Ag ternary hydrogel: synthesis, characterization and catalytic application. Journal of Materials Chemistry A, 2014, 2, 11319-11333. | 10.3 | 94 |
| 20 | 3D auxetic warp-knitted spacer fabrics. Physica Status Solidi (B): Basic Research, 2014, 251, 281-288. | 1.5 | 89 |
| 21 | Compression property and air permeability of weftâ€knitted spacer fabrics. Journal of the Textile Institute, 2011, 102, 366-372. | 1.9 | 88 |
| 22 | Application of warp-knitted spacer fabrics in car seats. Journal of the Textile Institute, 2007, 98, 337-344. | 1.9 | 82 |
| 23 | Development of the Warp Knitted Spacer Fabrics for Cushion Applications. Journal of Industrial Textiles, 2008, 37, 213-223. | 2.4 | 82 |
| 24 | Recent progress of fiber-shaped asymmetric supercapacitors. Materials Today Energy, 2017, 5, 1-14. | 4.7 | 80 |
| 25 | Innovative three-dimensional fabric structure with negative Poisson's ratio for composite reinforcement. Textile Reseach Journal, 2013, 83, 543-550. | 2.2 | 78 |
| 26 | Integrating a Triboelectric Nanogenerator and a Zincâ€ion Battery on a Designed Flexible 3D Spacer Fabric. Small Methods, 2018, 2, 1800150. | 8.6 | 78 |
| 27 | Auxetic composite made with multilayer orthogonal structural reinforcement. Composite Structures, 2016, 135, 23-29. | 5.8 | 77 |
| 28 | Formation and electronic properties of hydrogenated few layer graphene. Nanotechnology, 2011, 22, 185202. | 2.6 | 74 |
| 29 | Structural and mechanistic understanding of an active and durable graphene carbocatalyst for reduction of 4-nitrophenol at room temperature. Nano Research, 2015, 8, 3992-4006. | 10.4 | 73 |
| 30 | Low-velocity impact response of multilayer orthogonal structural composite with auxetic effect. Composite Structures, 2017, 169, 62-68. | 5.8 | 68 |
| 31 | Multifunctional organically modified graphene with super-hydrophobicity. Nano Research, 2014, 7, 418-433. | 10.4 | 65 |
| 32 | Effect of temperature on bending properties and failure mechanism of three-dimensional braided composite. Materials & Design, 2012, 41, 167-170. | 5.1 | 64 |
| 33 | Boron and Nitrogen Doping Induced Half-Metallicity in Zigzag Triwing Graphene Nanoribbons. Journal of Physical Chemistry C, 2011, 115, 6195-6199. | 3.1 | 60 |
| 34 | A 5-fluorouracil-loaded polydioxanone weft-knitted stent for the treatment of colorectal cancer. Biomaterials, 2013, 34, 9451-9461. | 11.4 | 59 |
| 35 | A novel concept to develop composite structures with isotropic negative Poissonâ€™s ratio: Effects of random inclusions. Composites Science and Technology, 2012, 72, 1848-1854. | 7.8 | 58 |
| 36 | Protective properties of warp-knitted spacer fabrics under impact in hemispherical form. Part I: Impact behavior analysis of a typical spacer fabric. Textile Reseach Journal, 2014, 84, 422-434. | 2.2 | 57 |

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| 37 | Mechanical behaviors of carbon fiber composite sandwich columns with three dimensional honeycomb cores under in-plane compression. Composites Part B: Engineering, 2014, 60, 350-358. | 12.0 | 57 |
| 38 | Additive Functionalization and Embroidery for Manufacturing Wearable and Washable Textile Supercapacitors. Advanced Functional Materials, 2020, 30, 1910541. | 14.9 | 55 |
| 39 | A novel plied yarn structure with negative Poissonâ€™s ratio. Journal of the Textile Institute, 2016, 107, 578-588. | 1.9 | 53 |
| 40 | A finite element analysis of a 3D auxetic textile structure for composite reinforcement. Smart Materials and Structures, 2013, 22, 084005. | 3.5 | 51 |
| 41 | Development of uni-stretch woven fabrics with zero and negative Poissonâ€™s ratio. Textile Reseach Journal, 2018, 88, 2076-2092. | 2.2 | 50 |
| 42 | Constitutive equations of basalt filament tows under quasi-static and high strain rate tension. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 3245-3252. | 5.6 | 49 |
| 43 | Woven Fabrics Made of Auxetic Plied Yarns. Polymers, 2018, 10, 226. | 4.5 | 49 |
| 44 | Compressive behavior of multi-axial multi-layer warp knitted (MMWK) fabric composite at various strain rates. Composite Structures, 2007, 78, 84-90. | 5.8 | 48 |
| 45 | Upright Standing Graphene Formation on Substrates. Journal of the American Chemical Society, 2011, 133, 16072-16079. | 13.7 | 47 |
| 46 | Highly Efficient Grapheneâ€Based Ternary Composite Catalyst with Polydopamine Layer and Copper Nanoparticles. ChemPlusChem, 2013, 78, 1483-1490. | 2.8 | 45 |
| 47 | A pH-mediated enhancement of the graphene carbocatalyst activity for the reduction of 4-nitrophenol. Chemical Communications, 2015, 51, 16699-16702. | 4.1 | 45 |
| 48 | Auxetic composites made of 3D textile structure and polyurethane foam. Physica Status Solidi (B): Basic Research, 2016, 253, 1331-1341. | 1.5 | 44 |
| 49 | Poly(lactic acid) fibers, yarns and fabrics: Manufacturing, properties and applications. Textile Reseach Journal, 2021, 91, 1641-1669. | 2.2 | 44 |
| 50 | Mechanical properties of biaxial weft-knitted flax composites. Materials & Design, 2013, 46, 264-269. | 5.1 | 43 |
| 51 | Biodegradable weftâ€knitted intestinal stents: Fabrication and physical changes investigation in vitro degradation. Journal of Biomedical Materials Research - Part A, 2014, 102, 982-990. | 4.0 | 43 |
| 52 | Protective properties of warp-knitted spacer fabrics under impact in hemispherical form. Part II: effects of structural parameters and lamination. Textile Reseach Journal, 2014, 84, 312-322. | 2.2 | 42 |
| 53 | Toward Enhancing Wearability and Fashion of Wearable Supercapacitor with Modified Polyurethane Artificial Leather Electrolyte. Nano-Micro Letters, 2018, 10, 38. | 27.0 | 42 |
| 54 | New concept of carbon fiber reinforced composite 3D auxetic lattice structures based on stretching-dominated cells. Mechanics of Materials, 2021, 152, 103661. | 3.2 | 42 |

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| 55 | Deformation behaviors of three-dimensional auxetic spacer fabrics. Textile Reseach Journal, 2014, 84, 1361-1372. | 2.2 | 41 |
| 56 | Finite element analysis of compression behaviour of 3D spacer fabric structure. International Journal of Mechanical Sciences, 2015, 94-95, 244-259. | 6.7 | 41 |
| 57 | Compression behavior and energy absorption of carbon fiber reinforced composite sandwich panels made of three-dimensional honeycomb grid cores. Extreme Mechanics Letters, 2016, 7, 114-120. | 4.1 | 41 |
| 58 | Tensile and forming properties of auxetic warp-knitted spacer fabrics. Textile Reseach Journal, 2017, 87, 1925-1937. | 2.2 | 41 |
| 59 | Theoretical Analysis of Load-Extension Properties of Plain Weft Knits Made from High Performance Yarns for Composite Reinforcement. Textile Reseach Journal, 2002, 72, 991-996. | 2.2 | 40 |
| 60 | Mechanical properties of PVC coated bi-axial warp knitted fabric with and without initial cracks under multi-axial tensile loads. Composite Structures, 2009, 89, 536-542. | 5.8 | 40 |
| 61 | Bi-stretch auxetic woven fabrics based on foldable geometry. Textile Reseach Journal, 2019, 89, 2694-2712. | 2.2 | 40 |
| 62 | Organic Liquids-Responsive Î²-Cyclodextrin-Functionalized Graphene-Based Fluorescence Probe: Label-Free Selective Detection of Tetrahydrofuran. Molecules, 2014, 19, 7459-7479. | 3.8 | 39 |
| 63 | A simplified microstructure model of bi-axial warp-knitted composite for ballistic impact simulation. Composites Part B: Engineering, 2010, 41, 337-353. | 12.0 | 36 |
| 64 | A study of computational mechanics of 3D spacer fabric: factors affecting its compression deformation. Journal of Materials Science, 2012, 47, 3989-3999. | 3.7 | 36 |
| 65 | Aqueous and Airâ€Compatible Fabrication of Highâ€Performance Conductive Textiles. Chemistry - an Asian Journal, 2014, 9, 2170-2177. | 3.3 | 36 |
| 66 | Low-velocity impact properties of 3D auxetic textile composite. Journal of Materials Science, 2018, 53, 3899-3914. | 3.7 | 36 |
| 67 | A study of spherical compression properties of knitted spacer fabrics Part I: Theoretical analysis. Textile Reseach Journal, 2012, 82, 1569-1578. | 2.2 | 35 |
| 68 | Development of Biâ€Stretch Auxetic Woven Fabrics Based on Reâ€Entrant Hexagonal Geometry. Physica Status Solidi (B): Basic Research, 2019, 256, 1800172. | 1.5 | 34 |
| 69 | Threshold Barrier of Carbon Nanotube Growth. Physical Review Letters, 2011, 107, 156101. | 7.8 | 33 |
| 70 | Ecological risk assessment of bisphenol A in surface waters of China based on both traditional and reproductive endpoints. Chemosphere, 2015, 139, 133-137. | 8.2 | 32 |
| 71 | Development of auxetic warp knitted fabrics based on reentrant geometry. Textile Reseach Journal, 2020, 90, 344-356. | 2.2 | 32 |
| 72 | Realizing Highâ€Energy and Stable Wireâ€Type Batteries with Flexible Lithiumâ€“Metal Composite Yarns. Advanced Energy Materials, 2021, 11, 2101809. | 19.5 | 32 |

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| 73 | Spacer fabric-based exuding wound dressing â€“ Part II: Comparison with commercial wound dressings. Textile Reseach Journal, 2017, 87, 1481-1493. | 2.2 | 31 |
| 74 | Auxetic Yarn Made with Circular Braiding Technology. Physica Status Solidi (B): Basic Research, 2019, 256, 1800168. | 1.5 | 31 |
| 75 | Finite element modeling of 3D spacer fabric: Effect of the geometric variation and amount of spacer yarns. Composite Structures, 2020, 236, 111846. | 5.8 | 31 |
| 76 | Mechanical Properties of Composite Materials Made of 3D Stitched Woven-knitted Preforms. Journal of Composite Materials, 2010, 44, 1753-1767. | 2.4 | 30 |
| 77 | A study of spherical compression properties of knitted spacer fabrics part II: comparison with experiments. Textile Reseach Journal, 2013, 83, 794-799. | 2.2 | 29 |
| 78 | Application of Superabsorbent Spacer Fabrics as Exuding Wound Dressing. Polymers, 2018, 10, 210. | 4.5 | 29 |
| 79 | A composite material with Poissonâ€™s ratio tunable from positive to negative values: an experimental and numerical study. Journal of Materials Science, 2013, 48, 8493-8500. | 3.7 | 28 |
| 80 | A study of tubular braided structure with negative Poissonâ€™s ratio behavior. Textile Reseach Journal, 2018, 88, 2810-2824. | 2.2 | 27 |
| 81 | Three-point bending fatigue behavior of 3D angle-interlock woven composite. Journal of Composite Materials, 2012, 46, 883-894. | 2.4 | 26 |
| 82 | A study on negative Poissonâ€™s ratio effect of 3D auxetic orthogonal textile composites under compression. Smart Materials and Structures, 2017, 26, 065014. | 3.5 | 26 |
| 83 | Energy absorption of 3D orthogonal woven fabric under ballistic penetration of hemispherical-cylindrical projectile. Journal of the Textile Institute, 2011, 102, 875-889. | 1.9 | 25 |
| 84 | Numerical analysis of composite structure with in-plane isotropic negative Poissonâ€™s ratio: Effects of materials properties and geometry features of inclusions. Composites Part B: Engineering, 2014, 58, 152-159. | 12.0 | 25 |
| 85 | Frequency features of co-woven-knitted fabric (CWKF) composite under tension at various strain rates. Composites Part A: Applied Science and Manufacturing, 2011, 42, 446-452. | 7.6 | 24 |
| 86 | Compressive mechanics of warp-knitted spacer fabrics. Part I: a constitutive model. Textile Reseach Journal, 2016, 86, 3-12. | 2.2 | 24 |
| 87 | Tensile and Deformation Behavior of Auxetic Plied Yarns. Physica Status Solidi (B): Basic Research, 2017, 254, 1600790. | 1.5 | 24 |
| 88 | An Experimental and Numerical Study on the Impact Energy Absorption Characteristics of the Multiaxial Warp Knitted (MWK) Reinforced Composites. Journal of Composite Materials, 2005, 39, 525-542. | 2.4 | 23 |
| 89 | A finite element analysis of an auxetic warp-knitted spacer fabric structure. Textile Reseach Journal, 2015, 85, 404-415. | 2.2 | 23 |
| 90 | Mechanical modeling of an auxetic tubular braided structure: Experimental and numerical analyses. International Journal of Mechanical Sciences, 2019, 160, 182-191. | 6.7 | 23 |

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| 91 | Dynamic Response of 3D Biaxial Spacer Weft-knitted Composite under Transverse Impact. Journal of Reinforced Plastics and Composites, 2006, 25, 1629-1641. | 3.1 | 22 |
| 92 | Graphene oxide-enhanced sol-gel transition sensitivity and drug release performance of an amphiphilic copolymer-based nanocomposite. Scientific Reports, 2016, 6, 31815. | 3.3 | 22 |
| 93 | Singleâ€•and Doubleâ€Layered Bistretch Auxetic Woven Fabrics Made of Nonauxetic Yarns Based on Foldable Geometries. Physica Status Solidi (B): Basic Research, 2020, 257, 1900156. | 1.5 | 22 |
| 94 | Design of novel 3D auxetic structures based on S-shaped unit-cells. Smart Materials and Structures, 2022, 31, 075024. | 3.5 | 22 |
| 95 | Vibration isolation behaviour of 3D polymeric knitted spacer fabrics under harmonic vibration testing conditions. Polymer Testing, 2015, 47, 120-129. | 4.8 | 20 |
| 96 | A novel silver-containing absorbent wound dressing based on spacer fabric. Journal of Materials Chemistry B, 2017, 5, 6786-6793. | 5.8 | 20 |
| 97 | Geometrical analysis of bi-stretch auxetic woven fabric based on re-entrant hexagonal geometry. Textile Reseach Journal, 2019, 89, 4476-4490. | 2.2 | 20 |
| 98 | Auxetic Textile Materials - A review. Journal of Textile Engineering & Fashion Technology, 2016, 1, . | 0.3 | 20 |
| 99 | Study of an auxetic structure made of tubes and corrugated sheets. Physica Status Solidi (B): Basic Research, 2013, 250, 1996-2001. | 1.5 | 19 |
| 100 | Numerical analysis of deformation behavior of a 3D textile structure with negative Poissonâ€™s ratio under compression. Textile Reseach Journal, 2015, 85, 548-557. | 2.2 | 19 |
| 101 | Finite Element Modeling of Multilayer Orthogonal Auxetic Composites under Low-Velocity Impact. Materials, 2017, 10, 908. | 2.9 | 19 |
| 102 | Permeability anisotropy of flax nonwoven mats in vacuumâ€assisted resin transfer molding. Journal of the Textile Institute, 2011, 102, 612-620. | 1.9 | 18 |
| 103 | An elastic analysis of a honeycomb structure with negative Poissonâ€™s ratio. Smart Materials and Structures, 2013, 22, 084006. | 3.5 | 18 |
| 104 | A theoretical analysis of deformation behavior of an innovative 3D auxetic textile structure. Journal of the Textile Institute, 2015, 106, 101-109. | 1.9 | 18 |
| 105 | Generation of Hierarchically Ordered Structures on a Polymer Film by Electrohydrodynamic Structure Formation. ACS Applied Materials & Interfaces, 2016, 8, 16419-16427. | 8.0 | 18 |
| 106 | Spacer fabric-based exuding wound dressing â€“ Part I: Structural design, fabrication and property evaluation of spacer fabrics. Textile Reseach Journal, 2017, 87, 1469-1480. | 2.2 | 18 |
| 107 | Deformation behavior of auxetic woven fabric based on re-entrant hexagonal geometry in different tensile directions. Textile Reseach Journal, 2020, 90, 410-421. | 2.2 | 18 |
| 108 | Geometrical analysis of coâ€woven knitted preform for composite reinforcement. Journal of the Textile Institute, 2011, 102, 405-418. | 1.9 | 17 |

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| 109 | Development of weft-knitted spacer fabrics with negative stiffness effect in a special range of compression displacement. Textile Reseach Journal, 2015, 85, 1720-1731. | 2.2 | 17 |
| 110 | An Experimental Investigation on the Properties of the Spacer Knitted Fabrics for Pressure Reduction. Research Journal of Textile and Apparel, 2005, 9, 52-57. | 1.1 | 16 |
| 111 | Compressive behavior of biaxial spacer weft knitted fabric reinforced composite at various strain rates. Polymer Composites, 2007, 28, 224-232. | 4.6 | 16 |
| 112 | Tensile behaviors of co-woven-knitted fabric reinforced composites under various strain rates. Journal of Composite Materials, 2011, 45, 2495-2506. | 2.4 | 16 |
| 113 | Ballistic impact damage of biaxial multilayer knitted composite. Journal of Composite Materials, 2012, 46, 527-547. | 2.4 | 16 |
| 114 | An experimental study on vibration isolation performance of weft-knitted spacer fabrics. Textile Reseach Journal, 2016, 86, 2225-2235. | 2.2 | 16 |
| 115 | In-plane elasticity of regular hexagonal honeycombs with three different joints: A comparative study. Mechanics of Materials, 2020, 148, 103496. | 3.2 | 16 |
| 116 | The use of a polytrimethylene terephthalate/polyester bi-component filament for the development of seamless garments. Textile Reseach Journal, 2013, 83, 1283-1296. | 2.2 | 15 |
| 117 | Compressive mechanics of warp-knitted spacer fabrics. Part II: a dynamic model. Textile Reseach Journal, 2015, 85, 2020-2029. | 2.2 | 15 |
| 118 | Predicting energy harvesting performance of a random nonlinear dielectric elastomer pendulum. Applied Energy, 2021, 289, 116696. | 10.1 | 15 |
| 119 | Auxetic Textile Materials - A review. Journal of Textile Engineering & Fashion Technology, 2017, 1, . | 0.3 | 15 |
| 120 | Dynamic Behavior of 3D Biaxial Spacer Weft-Knitted Composite T-Beam Under Transverse Impact. Mechanics of Advanced Materials and Structures, 2009, 16, 356-370. | 2.6 | 14 |
| 121 | Responses of 3D biaxial spacer weft-knitted composite circular plate under impact loading. Part II: impact tests and FEM calculation. Journal of the Textile Institute, 2010, 101, 35-45. | 1.9 | 14 |
| 122 | Microâ€gels for impact protection. Journal of Applied Polymer Science, 2013, 130, 2345-2351. | 2.6 | 14 |
| 123 | Polydioxanone weft-knitted intestinal stents: fabrication and mechanics optimization. Textile Reseach Journal, 2013, 83, 2129-2141. | 2.2 | 14 |
| 124 | Curved inserts in auxetic honeycomb for property enhancement and design flexibility. Composite Structures, 2022, 280, 114892. | 5.8 | 14 |
| 125 | Tensile Impact Behavior of Multiaxial Multilayer Warp Knitted (MMWK) Fabric Reinforced Composites. Journal of Reinforced Plastics and Composites, 2006, 25, 1305-1315. | 3.1 | 13 |
| 126 | Study on the Relationship between UV Protectionand Knitted Fabric Structure. Journal of Textile Engineering, 2013, 59, 71-74. | 0.2 | 13 |

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| 127 | Impact Protective Clothing in Sport: Areas of Application and Level of Utilization. Research Journal of Textile and Apparel, 2012, 16, 18-28. | 1.1 | 12 |
| 128 | Thermal Comfort Evaluation of Equestrian Body Protectors Using a Sweating Manikin. Clothing and Textiles Research Journal, 2013, 31, 231-243. | 3.4 | 12 |
| 129 | A novel impact hardening polymer with negative Poisson's ratio for impact protection. Materials Today Communications, 2015, 5, 50-59. | 1.9 | 12 |
| 130 | Polymerâ€Assisted Metallization of Mammalian Cells. Advanced Materials, 2021, 33, e2102348. | 21.0 | 12 |
| 131 | In-plane mechanical properties of a novel hybrid auxetic structure. Smart Materials and Structures, 2022, 31, 075003. | 3.5 | 12 |
| 132 | Radial Compressive Properties of the Biodegradable Braided Regeneration Tubes for Peripheral Nerve Repair. Journal of Industrial Textiles, 2006, 36, 35-46. | 2.4 | 11 |
| 133 | Integrated Design for Manufacturing of Braided Preforms for Advanced Composites Part I: 2D Braiding. Applied Composite Materials, 2013, 20, 1007-1023. | 2.5 | 11 |
| 134 | Finite element simulation of an auxetic plied yarn structure. Textile Reseach Journal, 2019, 89, 3394-3400. | 2.2 | 11 |
| 135 | Auxeticity from the Folded Geometry: A Numerical Study. Physica Status Solidi (B): Basic Research, 2020, 257, 1900361. | 1.5 | 11 |
| 136 | Three-dimensional composites with nearly isotropic negative Poisson's ratio by random inclusions: Experiments and finite element simulation. Composites Science and Technology, 2022, 218, 109195. | 7.8 | 11 |
| 137 | An Improved MWK Structure for Composite Reinforcement. Textile Reseach Journal, 2005, 75, 342-345. | 2.2 | 10 |
| 138 | A novel 3D composite structure with tunable Poisson's ratio and stiffness. Physica Status Solidi (B): Basic Research, 2015, 252, 1565-1574. | 1.5 | 10 |
| 139 | Theoretical Modeling on the Deformation Behavior of Auxetic Tubular Braid Made from Modified Circular Braiding Technique. Physica Status Solidi (B): Basic Research, 2020, 257, 1900173. | 1.5 | 9 |
| 140 | Geometrical analysis of auxetic woven fabrics based on foldable geometry. Textile Reseach Journal, 2022, 92, 317-329. | 2.2 | 9 |
| 141 | Inkjetâ€Printed Xerogel Scaffolds Enabled Roomâ€Temperature Fabrication of Highâ€Quality Metal Electrodes for Flexible Electronics. Advanced Functional Materials, 2022, 32, . | 14.9 | 9 |
| 142 | Deformation behavior of auxetic laminated fabrics with rotating square geometry. Textile Reseach Journal, 2022, 92, 4652-4665. | 2.2 | 9 |
| 143 | Dynamic Responses of 3-D Multi-structured Knitted Composite T-beam under Transverse Impact. Journal of Composite Materials, 2010, 44, 157-180. | 2.4 | 8 |
| 144 | Responses of 3D biaxial spacer weft-knitted composite circular plate under impact loading. Part I: unit-cell and elasto-plastic constitutive model. Journal of the Textile Institute, 2010, 101, 28-34. | 1.9 | 8 |

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| 145 | Integrated Design For Manufacturing of Braided Preforms For Advanced Composites Part II: 3D Braiding. Applied Composite Materials, 2013, 20, 1065-1075. | 2.5 | 8 |
| 146 | Deformation behavior of auxetic woven fabric made of foldable geometry in different tensile directions. Textile Reseach Journal, 2021, 91, 87-99. | 2.2 | 8 |
| 147 | A Comparative Study of the Impact Response of 3D Textile Composites and Aluminum Plates. Journal of Composite Materials, 2010, 44, 593-619. | 2.4 | 7 |
| 148 | Controlling Cross Section of Carbon Nanotubes via Selective Hydrogenation. Journal of Physical Chemistry C, 2010, 114, 11753-11757. | 3.1 | 7 |
| 149 | Finite element analyses of tensile impact behaviors of co-woven-knitted composite from unit-cell approach. Journal of the Textile Institute, 2013, 104, 446-459. | 1.9 | 7 |
| 150 | Functionalization of silicon carbide nanotube by dichlorocarbene: A density functional theory study. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 56, 377-385. | 2.7 | 7 |
| 151 | A theoretical analysis of deformation behavior of auxetic plied yarn structure. Smart Materials and Structures, 2018, 27, 075003. | 3.5 | 7 |
| 152 | The Relationship between Ultraviolet Protection Factor and Fibre Content. Journal of Textile Engineering, 2013, 59, 83-86. | 0.2 | 7 |
| 153 | Geometrical and Dimensional Properties of Plain Knitted Fabrics Made from Glass Fiber Yarns for Composite Reinforcement. Journal of Industrial Textiles, 2007, 37, 139-149. | 2.4 | 6 |
| 154 | Finite Element Analysis of Three-Dimensional (3D) Auxetic Textile Composite under Compression. Polymers, 2018, 10, 374. | 4.5 | 5 |
| 155 | Auxetic structures and mechanisms. , 2019, , 19-56. | | 5 |
| 156 | Applications of auxetic textiles. , 2019, , 337-350. | | 5 |
| 157 | Compressive mechanics of warp-knitted spacer fabrics. Journal of Industrial Textiles, 2021, 51, 611-631. | 2.4 | 5 |
| 158 | Nonlinear vibration of knitted spacer fabric under harmonic excitation. Journal of Engineered Fibers and Fabrics, 2020, 15, 155892502098356. | 1.0 | 5 |
| 159 | 3D Fabrics with Negative Poissonâ€™s Ratio: A Review. Applied Composite Materials, 2022, 29, 95-108. | 2.5 | 5 |
| 160 | Analysis and prediction of elastic constants of co-woven-knitted fabric (CWKF) composite. Journal of the Textile Institute, 2013, 104, 278-288. | 1.9 | 4 |
| 161 | An Experimental Study of Compression Behavior of Warp-knitted Spacer Fabric. Journal of Engineered Fibers and Fabrics, 2014, 9, 155892501400900. | 1.0 | 4 |
| 162 | Ultrafast 2â€Dimensional Image Monitoring and Arrayâ€Based Passive Cavitation Detection for Ultrasound Contrast Agent Destruction in a Variably Sized Region. Journal of Ultrasound in Medicine, 2014, 33, 1957-1970. | 1.7 | 4 |

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| 163 | Beryllium decorated armchair boron nitride nanoribbon: A new planar tetracoordinate nitride containing system with enhanced conductivity. Chemical Physics Letters, 2014, 608, 277-283. | 2.6 | 4 |
| 164 | Core-shell-core heterostructural engineering of Y2O3:Eu3+/MCM-41/YVO4:Eu3+ for enhanced red emission and tunable, broadened-band response to excitation. Journal of Materials Science: Materials in Electronics, 2017, 28, 16026-16035. | 2.2 | 4 |
| 165 | Auxetic behavior of warp knitted fabric under repeating tension. Textile Reseach Journal, 2021, 91, 1732-1741. | 2.2 | 4 |
| 166 | Intestinal stents: Structure, functionalization and advanced engineering innovation. , 2022, 137, 212810. | | 4 |
| 167 | Three-dimensional narrow woven fabric with in-plane auxetic behavior. Textile Reseach Journal, 2022, 92, 4695-4708. | 2.2 | 4 |
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