

Stephen J Russell

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

1,917
citations

236612

25
h-index

315357

38
g-index

92
all docs

92
docs citations

92
times ranked

2433
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in portable electrospinning devices for <i>in situ</i> delivery of personalized wound care. <i>Nanoscale</i> , 2019, 11, 19166-19178.	2.8	97
2	Sorption of Poly(hexamethylenebiguanide) on Cellulose: Mechanism of Binding and Molecular Recognition. <i>Langmuir</i> , 2006, 22, 5636-5644.	1.6	83
3	Performance of polyvinyl pyrrolidone-isatis root antibacterial wound dressings produced <i>in situ</i> by handheld electrospinner. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 188, 110766.	2.5	71
4	Application of life cycle assessment to sheep production systems: investigating co-production of wool and meat using case studies from major global producers. <i>International Journal of Life Cycle Assessment</i> , 2015, 20, 463-476.	2.2	69
5	Sorption of Chlorhexidine on Cellulose: Mechanism of Binding and Molecular Recognition. <i>Journal of Physical Chemistry B</i> , 2007, 111, 8775-8784.	1.2	63
6	Photo-active collagen systems with controlled triple helix architecture. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3705.	2.9	60
7	Controlled Morphology and Mechanical Characterisation of Electrospun Cellulose Acetate Fibre Webs. <i>International Journal of Polymer Science</i> , 2013, 2013, 1-12.	1.2	57
8	Triple-helical collagen hydrogels via covalent aromatic functionalisation with 1,3-phenylenediacetic acid. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5478.	2.9	56
9	Tunable drug-loading capability of chitosan hydrogels with varied network architectures. <i>Acta Biomaterialia</i> , 2014, 10, 821-830.	4.1	53
10	Multi-scale mechanical characterization of highly swollen photo-activated collagen hydrogels. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141079.	1.5	53
11	Directional Permeability in Homogeneous Nonwoven Structures Part I: The Relationship between Directional Permeability and Fibre Orientation. <i>Journal of the Textile Institute</i> , 2000, 91, 235-243.	1.0	45
12	A framework for determining the bonding intensity in hydroentangled nonwoven fabrics. <i>Composites Science and Technology</i> , 2006, 66, 80-91.	3.8	45
13	Biomimetic wet-stable fibres via wet spinning and diacid-based crosslinking of collagen triple helices. <i>Polymer</i> , 2015, 77, 102-112.	1.8	43
14	Anisotropic liquid absorption in homogeneous two-dimensional nonwoven structures. <i>Journal of Applied Physics</i> , 2003, 94, 4135-4138.	1.1	40
15	Abrasion phenomena in twill tencel fabric. <i>Journal of Applied Polymer Science</i> , 2006, 102, 1391-1398.	1.3	37
16	Wet-spinnability and crosslinked fibre properties of two collagen polypeptides with varied molecular weight. <i>International Journal of Biological Macromolecules</i> , 2015, 81, 112-120.	3.6	36
17	Antibacterial Properties of Nonwoven Wound Dressings Coated with Manuka Honey or Methylglyoxal. <i>Materials</i> , 2017, 10, 954.	1.3	36
18	Improvements in gelatin cold water solubility after electrospinning and associated physicochemical, functional and rheological properties. <i>Food Hydrocolloids</i> , 2020, 104, 105740.	5.6	36

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19	Protease-sensitive atelocollagen hydrogels promote healing in a diabetic wound model. <i>Journal of Materials Chemistry B</i> , 2016, 4, 7249-7258.	2.9	31
20	Effect of fiber orientation on pore size characteristics of nonwoven structures. <i>Journal of Applied Polymer Science</i> , 2010, 118, 2668-2673.	1.3	29
21	Hybrid electrospun nonwovens from chitosan/cellulose acetate. <i>Cellulose</i> , 2012, 19, 739-749.	2.4	29
22	A hydroxamic acid-methacrylated collagen conjugate for the modulation of inflammation-related MMP upregulation. <i>Journal of Materials Chemistry B</i> , 2018, 6, 3703-3715.	2.9	29
23	Effect of Water Jet Pressure Profile and Initial Web Geometry on the Physical Properties of Composite Hydroentangled Fabrics. <i>Textile Research Journal</i> , 2003, 73, 503-508.	1.1	28
24	Centrifugally spun PHBV micro and nanofibres. <i>Materials Science and Engineering C</i> , 2017, 76, 190-195.	3.8	28
25	Capillary pressure and liquid wicking in three-dimensional nonwoven materials. <i>Journal of Applied Physics</i> , 2008, 104, 034911.	1.1	26
26	Compositional and in Vitro Evaluation of Nonwoven Type I Collagen/Poly-dl-lactic Acid Scaffolds for Bone Regeneration. <i>Journal of Functional Biomaterials</i> , 2015, 6, 667-686.	1.8	26
27	Modeling Tissue Growth Within Nonwoven Scaffolds Pores. <i>Tissue Engineering - Part C: Methods</i> , 2011, 17, 123-130.	1.1	25
28	Colony Formation, Migratory, and Differentiation Characteristics of Multipotential Stromal Cells (MSCs) from "Clinically Accessible" Human Periosteum Compared to Donor-Matched Bone Marrow MSCs. <i>Stem Cells International</i> , 2019, 2019, 1-14.	1.2	24
29	Directional Permeability in Homogeneous Nonwoven Structures Part II: Permeability in Idealised Structures. <i>Journal of the Textile Institute</i> , 2000, 91, 244-258.	1.0	23
30	Analysis of crystallinity changes in cellulose II polymers using carbohydrate-binding modules. <i>Carbohydrate Polymers</i> , 2012, 89, 213-221.	5.1	23
31	Handbook of nonwovens. , 2007, , .		23
32	The charging and stability of electret filters. , 2017, , 95-121.		22
33	Formation and properties of fluid jet entangled HMPE impact resistant fabrics. <i>Composites Science and Technology</i> , 2005, 65, 899-907.	3.8	21
34	Modeling Permeability in Homogeneous Three-Dimensional Nonwoven Fabrics. <i>Textile Research Journal</i> , 2003, 73, 939-944.	1.1	20
35	Investigation into the potential use of poly(vinyl alcohol)/methylglyoxal fibres as antibacterial wound dressing components. <i>Journal of Biomaterials Applications</i> , 2015, 29, 1193-1200.	1.2	20
36	Centrifugal melt spinning of polyvinylpyrrolidone (PVP)/triacetene copolymer fibres. <i>Journal of Materials Science</i> , 2016, 51, 7512-7522.	1.7	20

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37	Role of surface energy and nano-roughness in the removal efficiency of bacterial contamination by nonwoven wipes from frequently touched surfaces. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 197-209.	2.8	19
38	Characterisation of fibre entanglement in nonwoven fabrics based on knot theory. <i>Composites Science and Technology</i> , 2012, 72, 1331-1337.	3.8	17
39	Three-Dimensional Fiber Segment Orientation Distribution Using X-Ray Microtomography. <i>Microscopy and Microanalysis</i> , 2014, 20, 1294-1303.	0.2	17
40	A structurally self-assembled peptide nano-architecture by one-step electrospinning. <i>Journal of Materials Chemistry B</i> , 2016, 4, 5475-5485.	2.9	17
41	A long-lasting guided bone regeneration membrane from sequentially functionalised photoactive atelocollagen. <i>Acta Biomaterialia</i> , 2022, 140, 190-205.	4.1	16
42	Controlling Dielectric and Magnetic Properties of PVdF/Magnetite Nanocomposite Fibre Webs. <i>International Journal of Polymer Science</i> , 2014, 2014, 1-9.	1.2	15
43	Structure-property-function relationships in triple-helical collagen hydrogels. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1498, 145-150.	0.1	14
44	Enrichment of cellulose acetate nanofibre assemblies for therapeutic delivery of l-tryptophan. <i>International Journal of Biological Macromolecules</i> , 2018, 108, 1-8.	3.6	14
45	In-situ crosslinked wet spun collagen triple helices with nanoscale-regulated ciprofloxacin release capability. <i>Materials Letters</i> , 2019, 255, 126550.	1.3	13
46	Influence of nanotube dispersion and spinning conditions on nanofibre nanocomposites of polypropylene and multi-walled carbon nanotubes produced through Forcespinning TM . <i>Journal of Thermoplastic Composite Materials</i> , 2014, 27, 205-214.	2.6	12
47	Optimising proliferation and migration of mesenchymal stem cells using platelet products: A rational approach to bone regeneration. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1329-1338.	1.2	12
48	Review of Wool Recycling and Reuse. <i>RILEM Bookseries</i> , 2016, , 415-428.	0.2	12
49	Monomer-Induced Customization of UV-Cured Atelocollagen Hydrogel Networks. <i>Frontiers in Chemistry</i> , 2018, 6, 626.	1.8	11
50	The causes of holes and loss of physical integrity in long-lasting insecticidal nets. <i>Malaria Journal</i> , 2021, 20, 45.	0.8	11
51	Influence of 4-vinylbenzylation on the rheological and swelling properties of photo-activated collagen hydrogels. <i>MRS Advances</i> , 2016, 1, 533-538.	0.5	10
52	Cellulose acetate/sodium-activated natural bentonite clay nanofibres produced by free surface electrospinning. <i>Journal of Materials Science</i> , 2018, 53, 10891-10909.	1.7	10
53	Reducing the Environmental Impacts of Garments through Industrially Scalable Closed-Loop Recycling: Life Cycle Assessment of a Recycled Wool Blend Sweater. <i>Sustainability</i> , 2022, 14, 1081.	1.6	10
54	Tensile and elastic behavior of tencel continuous filaments. <i>Journal of Applied Polymer Science</i> , 2006, 99, 1496-1503.	1.3	9

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55	Characterisation of the z-directional tensile strength of composite hydroentangled nonwovens. <i>Polymer Testing</i> , 2012, 31, 944-952.	2.3	9
56	Modes of hole formation in long-lasting insecticidal nets (LLINs) retrieved from South Eastern Ghana. <i>Parasites and Vectors</i> , 2014, 7, 547.	1.0	9
57	Coalescence efficiency of surface modified PBT meltblown nonwovens in the separation of water from diesel fuel containing surfactants. <i>Results in Engineering</i> , 2019, 4, 100048.	2.2	9
58	Droplet-based bioprinting enables the fabrication of cell-encapsulated hydrogel-microfibre composite tissue precursors. <i>Bio-Design and Manufacturing</i> , 2022, 5, 512-528.	3.9	8
59	Principles of the recovery and reuse of corporate clothing. <i>Proceedings of Institution of Civil Engineers: Waste and Resource Management</i> , 2010, 163, 165-172.	0.9	7
60	Mechanical Properties of Nonwoven Reinforced Thermoplastic Polyurethane Composites. <i>Materials</i> , 2017, 10, 618.	1.3	7
61	Induced Periosteum-Mimicking Membrane with Cell Barrier and Multipotential Stromal Cell (MSC) Homing Functionalities. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5233.	1.8	7
62	Biomimetic peptide enriched nonwoven scaffolds promote calcium phosphate mineralisation. <i>RSC Advances</i> , 2020, 10, 28332-28342.	1.7	7
63	Textile testing to assess the resistance to damage of long-lasting insecticidal nets for malaria control and prevention. <i>Malaria Journal</i> , 2021, 20, 47.	0.8	7
64	The dyeing of nonwoven fabrics part 1: Initial studies. <i>Dyes and Pigments</i> , 2012, 94, 592-598.	2.0	6
65	<i>In Silico</i> Modeling of the Rheological Properties of Covalently Cross-Linked Collagen Triple Helices. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1224-1233.	2.6	6
66	Rotation-assisted wet-spinning of UV-cured gelatin fibres and nonwovens. <i>Journal of Materials Science</i> , 2019, 54, 10529-10547.	1.7	6
67	An Alternative Instrument for the Measurement of Fabric Bending Length. <i>Journal of the Textile Institute</i> , 1994, 85, 82-83.	1.0	5
68	Influence of hydroentangling variables on the properties of bi-layer polyethylene terephthalate-glass fabrics. <i>Textile Research Journal</i> , 2012, 82, 1677-1688.	1.1	5
69	Technique for internal channelling of hydroentangled nonwoven scaffolds to enhance cell penetration. <i>Journal of Biomaterials Applications</i> , 2013, 28, 241-249.	1.2	5
70	Fibre composition of donated post-consumer clothing in the UK. <i>Proceedings of Institution of Civil Engineers: Waste and Resource Management</i> , 2013, 166, 29-37.	0.9	5
71	An investigation into the nano-/micro-architecture of electrospun poly(ϵ -caprolactone) and self-assembling peptide fibers. <i>MRS Advances</i> , 2016, 1, 711-716.	0.5	5
72	Hydrolytic and lysozymic degradability of chitosan systems with heparin-mimicking pendant groups. <i>Materials Letters</i> , 2017, 188, 359-363.	1.3	5

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73	Biomimetic Properties of Force-Spun PHBV Membranes Functionalised with Collagen as Substrates for Biomedical Application. <i>Coatings</i> , 2019, 9, 350.	1.2	5
74	Recontamination of Healthcare Surfaces by Repeated Wiping with Biocide-Loaded Wipes: "One Wipe, One Surface, One Direction, Dispose" as Best Practice in the Clinical Environment. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9659.	1.8	5
75	Hierarchically Assembled Type I Collagen Fibres as Biomimetic Building Blocks of Biomedical Membranes. <i>Membranes</i> , 2021, 11, 620.	1.4	5
76	Thermal properties of hemp fibre non-woven materials. <i>IOP Conference Series: Materials Science and Engineering</i> , 2013, 49, 012030.	0.3	4
77	The Sphereprint: An approach to quantifying the conformability of flexible materials. <i>Textile Research Journal</i> , 2014, 84, 793-807.	1.1	4
78	Factors affecting removal of bacterial pathogens from healthcare surfaces during dynamic wiping. <i>Textile Research Journal</i> , 2019, 89, 580-589.	1.1	4
79	Cotton nonwovens with unidirectional water-transport properties produced by atmospheric plasma deposition. <i>Cellulose</i> , 2021, 28, 4427-4438.	2.4	4
80	Development of a single resistance to damage metric for mosquito nets related to physical integrity in the field. <i>Malaria Journal</i> , 2021, 20, 46.	0.8	4
81	Mechanism of crosslinking Tencel woven fabric for superior easy-care properties and analysis using fluorescence microscopy. <i>Journal of Applied Polymer Science</i> , 2006, 101, 2154-2161.	1.3	3
82	Fluid handling and fabric handle profiles of hydroentangled greige cotton and spunbond polypropylene nonwoven topsheets. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2016, 230, 847-859.	0.7	3
83	Limitations of Monoolein in Simulating Water-in-Fuel Characteristics of EN590 Diesel Containing Biodiesel in Water Separation Testing. <i>SAE International Journal of Fuels and Lubricants</i> , 0, 11, 229-238.	0.2	3
84	The Effect of Rubbing on the Structural and Tensile Properties of Woollen Slubbings. <i>Journal of the Textile Institute</i> , 1995, 86, 415-424.	1.0	2
85	Single step assembly of biomolecule-loaded sub-micron polysulfone fibers. <i>Textile Research Journal</i> , 2017, 87, 340-350.	1.1	2
86	A new approach for the functionalisation of polysulfone with β -cyclodextrin. <i>Materials Research Express</i> , 2019, 6, 105310.	0.8	1
87	Renewable Hemp Fibre Insulation Materials. <i>Journal of Biobased Materials and Bioenergy</i> , 2012, 6, 418-423.	0.1	1
88	Hydroentangled Polymer-Glass Bi-Layer Fibrous Composites. <i>Advanced Materials Research</i> , 2012, 570, 97-101.	0.3	0
89	Discussion: Principles of the recovery and reuse of corporate clothing. <i>Proceedings of Institution of Civil Engineers: Waste and Resource Management</i> , 2012, 165, 161-161.	0.9	0
90	Method for evaluating the snagging propensity of roofing membranes in buildings by roosting bats. <i>Building Research and Information</i> , 2020, 48, 886-898.	2.0	0