Stephen J Russell

List of Publications by Year
in descending order

90 papers	1,917 citations	236925 25 h-index	315739 38 g-index
92 all docs	92 docs citations	92 times ranked	2433 citing authors

#	Article	IF	Citations
1	Reducing the Environmental Impacts of Garments through Industrially Scalable Closed-Loop Recycling: Life Cycle Assessment of a Recycled Wool Blend Sweater. Sustainability, 2022, 14, 1081.	3.2	10
2	A long-lasting guided bone regeneration membrane from sequentially functionalised photoactive atelocollagen. Acta Biomaterialia, 2022, 140, 190-205.	8.3	16
3	Droplet-based bioprinting enables the fabrication of cellâ€"hydrogelâ€"microfibre composite tissue precursors. Bio-Design and Manufacturing, 2022, 5, 512-528.	7.7	8
4	Textile testing to assess the resistance to damage of long-lasting insecticidal nets for malaria control and prevention. Malaria Journal, 2021, 20, 47.	2.3	7
5	Cotton nonwovens with unidirectional water-transport properties produced by atmospheric plasma deposition. Cellulose, 2021, 28, 4427-4438.	4.9	4
6	Hierarchically Assembled Type I Collagen Fibres as Biomimetic Building Blocks of Biomedical Membranes. Membranes, 2021, 11, 620.	3.0	5
7	The causes of holes and loss of physical integrity in longâ€lasting insecticidal nets. Malaria Journal, 2021, 20, 45.	2.3	11
8	Development of a single resistance to damage metric for mosquito nets related to physical integrity in the field. Malaria Journal, 2021, 20, 46.	2.3	4
9	Performance of polyvinyl pyrrolidone-isatis root antibacterial wound dressings produced in situ by handheld electrospinner. Colloids and Surfaces B: Biointerfaces, 2020, 188, 110766.	5.0	71
10	Induced Periosteum-Mimicking Membrane with Cell Barrier and Multipotential Stromal Cell (MSC) Homing Functionalities. International Journal of Molecular Sciences, 2020, 21, 5233.	4.1	7
11	Biomimetic peptide enriched nonwoven scaffolds promote calcium phosphate mineralisation. RSC Advances, 2020, 10, 28332-28342.	3.6	7
12	Recontamination of Healthcare Surfaces by Repeated Wiping with Biocide-Loaded Wipes: â€œOne Wipe, One Surface, One Direction, Disposeâ€•as Best Practice in the Clinical Environment. International Journal of Molecular Sciences, 2020, 21, 9659.	4.1	5
13	Method for evaluating the snagging propensity of roofing membranes in buildings by roosting bats. Building Research and Information, 2020, 48, 886-898.	3.9	0
14	Improvements in gelatin cold water solubility after electrospinning and associated physicochemical, functional and rheological properties. Food Hydrocolloids, 2020, 104, 105740.	10.7	36
15	A new approach for the functionalisation of polysulfone with Î²-cyclodextrin. Materials Research Express, 2019, 6, 105310.	1.6	1
16	Coalescence efficiency of surface modified PBT meltblown nonwovens in the separation of water from diesel fuel containing surfactants. Results in Engineering, 2019, 4, 100048.	5.1	9
17	In-situ crosslinked wet spun collagen triple helices with nanoscale-regulated ciprofloxacin release capability. Materials Letters, 2019, 255, 126550.	2.6	13
18	Biomimetic Properties of Force-Spun PHBV Membranes Functionalised with Collagen as Substrates for Biomedical Application. Coatings, 2019, 9, 350.	2.6	5

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19	Advances in portable electrospinning devices for in situ delivery of personalized wound care. Nanoscale, 2019, 11, 19166-19178.	5.6	97
20	Rotation-assisted wet-spinning of UV-cured gelatin fibres and nonwovens. Journal of Materials Science, 2019, 54, 10529-10547.	3.7	6
21	Optimising proliferation and migration of mesenchymal stem cells using platelet products: A rational approach to bone regeneration. Journal of Orthopaedic Research, 2019, 37, 1329-1338.	2.3	12
22	Colony Formation, Migratory, and Differentiation Characteristics of Multipotential Stromal Cells (MSCs) from â€œClinically Accessibleâ€•Human Periosteum Compared to Donor-Matched Bone Marrow MSCs. Stem Cells International, 2019, 2019, 1-14.	2.5	24
23	Factors affecting removal of bacterial pathogens from healthcare surfaces during dynamic wiping. Textile Reseach Journal, 2019, 89, 580-589.	2.2	4
24	Cellulose acetate/sodium-activated natural bentonite clay nanofibres produced by free surface electrospinning. Journal of Materials Science, 2018, 53, 10891-10909.	3.7	10
25	Enrichment of cellulose acetate nanofibre assemblies for therapeutic delivery of l-tryptophan. International Journal of Biological Macromolecules, 2018, 108, 1-8.	7.5	14
26	Monomer-Induced Customization of UV-Cured Atelocollagen Hydrogel Networks. Frontiers in Chemistry, 2018, 6, 626.	3.6	11
27	A hydroxamic acidâ€“methacrylated collagen conjugate for the modulation of inflammation-related MMP upregulation. Journal of Materials Chemistry B, 2018, 6, 3703-3715.	5.8	29
28	Hydrolytic and lysozymic degradability of chitosan systems with heparin-mimicking pendant groups. Materials Letters, 2017, 188, 359-363.	2.6	5
29	Single step assembly of biomolecule-loaded sub-micron polysulfone fibers. Textile Reseach Journal, 2017, 87, 340-350.	2.2	2
30	Role of surface energy and nano-roughness in the removal efficiency of bacterial contamination by nonwoven wipes from frequently touched surfaces. Science and Technology of Advanced Materials, 2017, 18, 197-209.	6.1	19
31	Centrifugally spun PHBV micro and nanofibres. Materials Science and Engineering C, 2017, 76, 190-195.	7.3	28
32	Mechanical Properties of Nonwoven Reinforced Thermoplastic Polyurethane Composites. Materials, 2017, 10, 618.	2.9	7
33	Antibacterial Properties of Nonwoven Wound Dressings Coated with Manuka Honey or Methylglyoxal. Materials, 2017, 10, 954.	2.9	36
34	The charging and stability of electret filters. , 2017, , 95-121.		22
35	In Silico Modeling of the Rheological Properties of Covalently Cross-Linked Collagen Triple Helices. ACS Biomaterials Science and Engineering, 2016, 2, 1224-1233.	5.2	6
36	Influence of 4-vinylbenzylation on the rheological and swelling properties of photo-activated collagen hydrogels. MRS Advances, 2016, 1, 533-538.	0.9	10

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37	An investigation into the nano-/micro-architecture of electrospun poly (Îµ-caprolactone) and self-assembling peptide fibers. MRS Advances, 2016, 1, 711-716.	0.9	5
38	A structurally self-assembled peptide nano-architecture by one-step electrospinning. Journal of Materials Chemistry B, 2016, 4, 5475-5485.	5.8	17
39	Protease-sensitive atelocollagen hydrogels promote healing in a diabetic wound model. Journal of Materials Chemistry B, 2016, 4, 7249-7258.	5.8	31
40	Centrifugal melt spinning of polyvinylpyrrolidone (PVP)/triacontene copolymer fibres. Journal of Materials Science, 2016, 51, 7512-7522.	3.7	20
41	Fluid handling and fabric handle profiles of hydroentangled greige cotton and spunbond polypropylene nonwoven topsheets. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2016, 230, 847-859.	1.1	3
42	Review of Wool Recycling and Reuse. RILEM Bookseries, 2016, , 415-428.	0.4	12
43	Biomimetic wet-stable fibres via wet spinning and diacid-based crosslinking of collagen triple helices. Polymer, 2015, 77, 102-112.	3.8	43
44	Compositional and in Vitro Evaluation of Nonwoven Type I Collagen/Poly-dl-lactic Acid Scaffolds for Bone Regeneration. Journal of Functional Biomaterials, 2015, 6, 667-686.	4.4	26
45	Wet-spinnability and crosslinked fibre properties of two collagen polypeptides with varied molecular weight. International Journal of Biological Macromolecules, 2015, 81, 112-120.	7.5	36
46	Application of life cycle assessment to sheep production systems: investigating co-production of wool and meat using case studies from major global producers. International Journal of Life Cycle Assessment, 2015, 20, 463-476.	4.7	69
47	Multi-scale mechanical characterization of highly swollen photo-activated collagen hydrogels. Journal of the Royal Society Interface, 2015, 12, 20141079.	3.4	53
48	Investigation into the potential use of poly(vinyl alcohol)/methylglyoxal fibres as antibacterial wound dressing components. Journal of Biomaterials Applications, 2015, 29, 1193-1200.	2.4	20
49	Controlling Dielectric and Magnetic Properties of PVdF/Magnetite Nanocomposite Fibre Webs. International Journal of Polymer Science, 2014, 2014, 1-9.	2.7	15
50	Three-Dimensional Fiber Segment Orientation Distribution Using X-Ray Microtomography. Microscopy and Microanalysis, 2014, 20, 1294-1303.	0.4	17
51	The Sphereprint: An approach to quantifying the conformability of flexible materials. Textile Reseach Journal, 2014, 84, 793-807.	2.2	4
52	Modes of hole formation in long-lasting insecticidal nets (LLINs) retrieved from South Eastern Ghana. Parasites and Vectors, 2014, 7, 547.	2.5	9
53	Influence of nanotube dispersion and spinning conditions on nanofibre nanocomposites of polypropylene and multi-walled carbon nanotubes produced through Forcespinning^{TM}. Journal of Thermoplastic Composite Materials, 2014, 27, 205-214.	4.2	12
54	Tunable drug-loading capability of chitosan hydrogels with varied network architectures. Acta Biomaterialia, 2014, 10, 821-830.	8.3	53

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55	Triple-helical collagen hydrogels via covalent aromatic functionalisation with 1,3-phenylenediacetic acid. Journal of Materials Chemistry B, 2013, 1, 5478.	5.8	56
56	Photo-active collagen systems with controlled triple helix architecture. Journal of Materials Chemistry B, 2013, 1, 3705.	5.8	60
57	Technique for internal channelling of hydroentangled nonwoven scaffolds to enhance cell penetration. Journal of Biomaterials Applications, 2013, 28, 241-249.	2.4	5
58	Fibre composition of donated post-consumer clothing in the UK. Proceedings of Institution of Civil Engineers: Waste and Resource Management, 2013, 166, 29-37.	0.8	5
59	Thermal properties of hemp fibre non-woven materials. IOP Conference Series: Materials Science and Engineering, 2013, 49, 012030.	0.6	4
60	Controlled Morphology and Mechanical Characterisation of Electrospun Cellulose Acetate Fibre Webs. International Journal of Polymer Science, 2013, 2013, 1-12.	2.7	57
61	Hydroentangled Polymer-Glass Bi-Layer Fibrous Composites. Advanced Materials Research, 2012, 570, 97-101.	0.3	0
62	Influence of hydroentangling variables on the properties of bi-layer polyethylene terephthalateâ€"glass fabrics. Textile Reseach Journal, 2012, 82, 1677-1688.	2.2	5
63	Structure-property-function relationships in triple-helical collagen hydrogels. Materials Research Society Symposia Proceedings, 2012, 1498, 145-150.	0.1	14
64	Discussion: Principles of the recovery and reuse of corporate clothing. Proceedings of Institution of Civil Engineers: Waste and Resource Management, 2012, 165, 161-161.	0.8	0
65	Characterisation of the z-directional tensile strength of composite hydroentangled nonwovens. Polymer Testing, 2012, 31, 944-952.	4.8	9
66	Characterisation of fibre entanglement in nonwoven fabrics based on knot theory. Composites Science and Technology, 2012, 72, 1331-1337.	7.8	17
67	Hybrid electrospun nonwovens from chitosan/cellulose acetate. Cellulose, 2012, 19, 739-749.	4.9	29
68	Analysis of crystallinity changes in cellulose II polymers using carbohydrate-binding modules. Carbohydrate Polymers, 2012, 89, 213-221.	10.2	23
69	The dyeing of nonwoven fabrics part 1: Initial studies. Dyes and Pigments, 2012, 94, 592-598.	3.7	6
70	Renewable Hemp Fibre Insulation Materials. Journal of Biobased Materials and Bioenergy, 2012, 6, 418-423.	0.3	1
71	Modeling Tissue Growth Within Nonwoven Scaffolds Pores. Tissue Engineering - Part C: Methods, 2011, 17, 123-130.	2.1	25
72	Principles of the recovery and reuse of corporate clothing. Proceedings of Institution of Civil Engineers: Waste and Resource Management, 2010, 163, 165-172.	0.8	7

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73	Effect of fiber orientation on pore size characteristics of nonwoven structures. Journal of Applied Polymer Science, 2010, 118, 2668-2673.	2.6	29
74	Capillary pressure and liquid wicking in three-dimensional nonwoven materials. Journal of Applied Physics, 2008, 104, 034911.	2.5	26
75	Sorption of Chlorhexidine on Cellulose:â€‰ Mechanism of Binding and Molecular Recognition. Journal of Physical Chemistry B, 2007, 111, 8775-8784.	2.6	63
76	Handbook of nonwovens. , 2007, , .		23
77	Sorption of Poly(hexamethylenebiguanide) on Cellulose:â€‰ Mechanism of Binding and Molecular Recognition. Langmuir, 2006, 22, 5636-5644.	3.5	83
78	A framework for determining the bonding intensity in hydroentangled nonwoven fabrics. Composites Science and Technology, 2006, 66, 80-91.	7.8	45
79	Tensile and elastic behavior of tencel continuous filaments. Journal of Applied Polymer Science, 2006, 99, 1496-1503.	2.6	9
80	Mechanism of crosslinking Tencel woven fabric for superior easy-care properties and analysis using fluorescence microscopy. Journal of Applied Polymer Science, 2006, 101, 2154-2161.	2.6	3
81	Abrasion phenomena in twill tencel fabric. Journal of Applied Polymer Science, 2006, 102, 1391-1398.	2.6	37
82	Formation and properties of fluid jet entangled HMPE impact resistant fabrics. Composites Science and Technology, 2005, 65, 899-907.	7.8	21
83	Effect of Water Jet Pressure Profile and Initial Web Geometry on the Physical Properties of Composite Hydroentangled Fabrics. Textile Reseach Journal, 2003, 73, 503-508.	2.2	28
84	Modeling Permeability in Homogeneous Three-Dimensional Nonwoven Fabrics. Textile Reseach Journal, 2003, 73, 939-944.	2.2	20
85	Anisotropic liquid absorption in homogeneous two-dimensional nonwoven structures. Journal of Applied Physics, 2003, 94, 4135-4138.	2.5	40
86	Directional Permeability in Homogeneous Nonwoven Structures Part II: Permeability in Idealised Structures. Journal of the Textile Institute, 2000, 91, 244-258.	1.9	23
87	Directional Permeability in Homogeneous Nonwoven Structures Part I: The Relationship between Directional Permeability and Fibre Orientation. Journal of the Textile Institute, 2000, 91, 235-243.	1.9	45
88	The Effect of Rubbing on the Structural and Tensile Properties of Woollen Slubbings. Journal of the Textile Institute, 1995, 86, 415-424.	1.9	2
89	An Alternative Instrument for the Measurement of Fabric Bending Length. Journal of the Textile Institute, 1994, 85, 82-83.	1.9	5
90	Limitations of Monoolein in Simulating Water-in-Fuel Characteristics of EN590 Diesel Containing Biodiesel in Water Separation Testing. SAE International Journal of Fuels and Lubricants, 0, 11, 229-238.	0.2	3