

Richard S Blackburn

List of Publications by Year in descending order

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82
papers

3,163
citations

159585

30
h-index

168389

53
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84
all docs

84
docs citations

84
times ranked

4118
citing authors

#	ARTICLE	IF	CITATIONS
1	Referencing Historical Practices and Emergent Technologies in the Future Development of Sustainable Textiles: A Case Study Exploring 'Ardilá', a UK-Based Regenerated Protein Fibre. Sustainability, 2022, 14, 8414.	3.2	0
2	The Potential for Regenerated Protein Fibres within a Circular Economy: Lessons from the Past Can Inform Sustainable Innovation in the Textiles Industry. Sustainability, 2021, 13, 2328.	3.2	19
3	From Clothing Rations to Fast Fashion: Utilising Regenerated Protein Fibres to Alleviate Pressures on Mass Production. Energies, 2021, 14, 5654.	3.1	14
4	Zinc oxide-induced changes to sunscreen ingredient efficacy and toxicity under UV irradiation. Photochemical and Photobiological Sciences, 2021, 20, 1273-1285.	2.9	18
5	Improved garment longevity and reduced microfibre release are important sustainability benefits of laundering in colder and quicker washing machine cycles. Dyes and Pigments, 2020, 177, 108120.	3.7	41
6	Quantifying Water Repellency by Modifying Spray Test Method AATCC TM22 to Extend Test Duration Allowing Discrimination between Similarly Graded Fabrics. AATCC Journal of Research, 2020, 7, 8-14.	0.6	1
7	Extraction of anthocyanins from <i>Aronia melanocarpa</i> skin waste as a sustainable source of natural colorants. Coloration Technology, 2019, 135, 5-16.	1.5	29
8	Highly fluorinated chemicals in functional textiles can be replaced by re-evaluating liquid repellency and end-user requirements. Journal of Cleaner Production, 2019, 217, 134-143.	9.3	48
9	2018 BioColours conference. Coloration Technology, 2019, 135, 3-4.	1.5	0
10	John Mercer FRS, FCS, MP hS, JP: the Father of Textile Chemistry. Coloration Technology, 2019, 135, 171-182.	1.5	3
11	Kinetic Analysis of Cellulose Acetate/Cellulose II Hybrid Fiber Formation by Alkaline Hydrolysis. ACS Omega, 2019, 4, 4936-4942.	3.5	20
12	<i>In situ</i> fabric coloration with indigo synthesised in flow. Coloration Technology, 2019, 135, 127-132.	1.5	5
13	Food colorants: their past, present and future. Coloration Technology, 2018, 134, 165-186.	1.5	71
14	Degradation of lucidin: New insights into the fate of this natural pigment present in Dyer's madder (<i>Rubia tinctorum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.7	12
15	Acute metabolic actions of the major polyphenols in chamomile: an in vitro mechanistic study on their potential to attenuate postprandial hyperglycaemia. Scientific Reports, 2018, 8, 5471.	3.3	61
16	Comparative sorption isotherms for colorants present in Dyer's™ madder (<i>Rubia tinctorum</i> L.) provide new insights into historical dyeing. Coloration Technology, 2018, 134, 3-12.	1.5	9
17	Enrichment of cellulose acetate nanofibre assemblies for therapeutic delivery of l-tryptophan. International Journal of Biological Macromolecules, 2018, 108, 1-8.	7.5	14
18	Enhancing the Potential Exploitation of Food Waste: Extraction, Purification, and Characterization of Renewable Specialty Chemicals from Blackcurrants (<i>Ribes nigrum</i> L.). Journal of Agricultural and Food Chemistry, 2018, 66, 12265-12273.	5.2	31

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19	Application of Anthocyanins from Blackcurrant (<i>Ribes nigrum</i> L.) Fruit Waste as Renewable Hair Dyes. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 6790-6798.	5.2	65
20	Selective enzymatic lipophilization of anthocyanin glucosides from blackcurrant (<i>Ribes nigrum</i> L.) skin extract and characterization of esterified anthocyanins. <i>Food Chemistry</i> , 2018, 266, 415-419.	8.2	37
21	Mild extraction methods using aqueous glucose solution for the analysis of natural dyes in textile artefacts dyed with Dyer's madder (<i>Rubia tinctorum</i> L.). <i>Journal of Chromatography A</i> , 2017, 1487, 36-46.	3.7	26
22	Substitution of PFAS chemistry in outdoor apparel and the impact on repellency performance. <i>Chemosphere</i> , 2017, 181, 500-507.	8.2	39
23	Natural dyes in madder (<i>Rubia</i> spp.) and their extraction and analysis in historical textiles. <i>Coloration Technology</i> , 2017, 133, 449-462.	1.5	32
24	Study of the morphological characteristics and physical properties of Himalayan giant nettle (<i>Girardinia diversifolia</i> L.) fibre in comparison with European nettle (<i>Urtica dioica</i> L.) fibre. <i>Materials Letters</i> , 2016, 181, 200-203.	2.6	21
25	Monoclonal Antibodies Directed to Fucoidan Preparations from Brown Algae. <i>PLoS ONE</i> , 2015, 10, e0118366.	2.5	56
26	Isolation and extraction of ruberythric acid from <i>Rubia tinctorum</i> L. and crystal structure elucidation. <i>Phytochemistry</i> , 2015, 117, 168-173.	2.9	18
27	Sustainable Chemistry Method to Improve the Wash-off Process of Reactive Dyes on Cotton. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 725-732.	6.7	34
28	Analysis of the physical properties of developing cotton fibres. <i>European Polymer Journal</i> , 2014, 51, 57-68.	5.4	30
29	Isolation and extraction of lucidin primeveroside from <i>Rubia tinctorum</i> L. and crystal structure elucidation. <i>Phytochemistry</i> , 2013, 95, 105-108.	2.9	15
30	Optimizing the Colour and Fabric of Targets for the Control of the Tsetse Fly <i>Glossina fuscipes fuscipes</i> . <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1661.	3.0	42
31	Analysis of crystallinity changes in cellulose II polymers using carbohydrate-binding modules. <i>Carbohydrate Polymers</i> , 2012, 89, 213-221.	10.2	23
32	The dyeing of nonwoven fabrics part 1: Initial studies. <i>Dyes and Pigments</i> , 2012, 94, 592-598.	3.7	6
33	Comparative Analysis of Crystallinity Changes in Cellulose I Polymers Using ATR-FTIR, X-ray Diffraction, and Carbohydrate-Binding Module Probes. <i>Biomacromolecules</i> , 2011, 12, 4121-4126.	5.4	148
34	Sorption of dyes on cellulose II: effect of alkali treatment of fibre and dye structure. <i>Cellulose</i> , 2011, 18, 1063-1072.	4.9	14
35	The Combined Synthesis and Coloration of Poly(lactic acid). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 291-294.	13.8	18
36	Backside Cover: The Combined Synthesis and Coloration of Poly(lactic acid) (<i>Angew. Chem. Int. Ed.</i>)	13.8	2

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37	Natural anthraquinonoid colorants as platform chemicals in the synthesis of sustainable disperse dyes for polyesters. <i>Dyes and Pigments</i> , 2011, 88, 7-17.	3.7	37
38	Alkali treatment of cellulose II fibres and effect on dye sorption. <i>Carbohydrate Polymers</i> , 2011, 84, 299-307.	10.2	52
39	Attenuated total reflectance Fourier-transform Infrared spectroscopy analysis of crystallinity changes in lyocell following continuous treatment with sodium hydroxide. <i>Cellulose</i> , 2010, 17, 103-115.	4.9	214
40	Key sustainability issues in textile dyeing * *Note: Dianix, Imperon, Levafix, Realan, Remazol, Controlled Coloration, econfidence and Optidye are registered trademarks of DyStar Textilfarben GmbH & Co. Deutschland KG, Germany.. , 2009, , 139-154.		4
41	Carbon Black Reinforced Epoxy Resin Nanocomposites as Bending Sensors. <i>Journal of Composite Materials</i> , 2009, 43, 367-376.	2.4	7
42	Consumer perceptions of recycled textile fibers. , 2009, , 203-213.		1
43	The role of nanotechnology in sustainable textiles. , 2009, , 302-328.		2
44	Environmentally friendly plasma technologies for textiles. , 2009, , 155-178.		5
45	Environmentally friendly flame-retardant textiles. , 2009, , 339-368.		2
46	Understanding and improving textile recycling: a systems perspective. , 2009, , 179-199.		22
47	Organic cotton: production practices and post-harvest considerations. , 2009, , 231-301.		15
48	Alkali treatments of lyocell in continuous processes. I. Effects of temperature and alkali concentration on the treatments of plain woven fabrics. <i>Journal of Applied Polymer Science</i> , 2009, 113, 3646-3655.	2.6	12
49	Dyeing behaviour of lyocell fabric: effect of NaOH pre-treatment. <i>Cellulose</i> , 2009, 16, 481-489.	4.9	27
50	The development of indigo reduction methods and pre-reduced indigo products. <i>Coloration Technology</i> , 2009, 125, 193-207.	1.5	92
51	A custom ink-jet printing system using a novel pretreatment method. <i>Coloration Technology</i> , 2009, 125, 357-365.	1.5	7
52	Effect of sodium hydroxide pre-treatment on the optical and structural properties of lyocell. <i>European Polymer Journal</i> , 2009, 45, 455-465.	5.4	50
53	Systems change for sustainability in textiles. , 2009, , 369-380.		9
54	Eco-labeling for textiles and apparel. , 2009, , 214-230.		13

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55	Achieving sustainable textiles: a designer's perspective. , 2009, , 3-32.		16
56	Sustainable wool production and processing. , 2009, , 63-87.		14
57	Enzyme biotechnology for sustainable textiles. , 2009, , 113-138.		14
58	Sustainable synthetic fibres: the case of poly(hydroxyalkanoates) (PHA) and other fibres. , 2009, , 88-112.		3
59	The use of recovered plastic bags in nonwoven fabrics. , 2009, , 329-338.		0
60	Sustainable textiles. , 2009, , .		33
61	Effect of solid particle loading on nucleophilic addition of epoxy-resin to isophorone diisocyanate. Particuology, 2008, 6, 24-29.	3.6	1
62	In situ analysis of cell wall polymers associated with phloem fibre cells in stems of hemp, Cannabis sativa L.. Planta, 2008, 228, 1-13.	3.2	55
63	IR study on hydrogen bonding in epoxy resin/silica nanocomposites. Progress in Natural Science: Materials International, 2008, 18, 801-805.	4.4	98
64	Poly(lactic acid) fibers (PLA). , 2008, , 140-170.		2
65	Sorption of Chlorhexidine on Cellulose: Mechanism of Binding and Molecular Recognition. Journal of Physical Chemistry B, 2007, 111, 8775-8784.	2.6	63
66	Dyeing behaviour of lyocell fabric: effect of fibrillation. Coloration Technology, 2007, 123, 387-393.	1.5	35
67	Effect of silica concentration on electrical conductivity of epoxy resin/carbon black/silica nanocomposites. Scripta Materialia, 2007, 56, 581-584.	5.2	40
68	Electrical conductivity of epoxy resin/carbon black/silica nanocomposites: Effect of silica concentration and analysis of polymer curing reaction by FTIR. Scripta Materialia, 2007, 57, 949-952.	5.2	36
69	Effect of carbon black concentration on electrical conductivity of epoxy resin/carbon black/silica nanocomposites. Journal of Materials Science, 2007, 42, 7861-7865.	3.7	27
70	Carbon based conductive polymer composites. Journal of Materials Science, 2007, 42, 3408-3418.	3.7	319
71	Influence of laser irradiation on the optical and structural properties of poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 102 4.6 19		
72	Sorption of Poly(hexamethylenebiguanide) on Cellulose: Mechanism of Binding and Molecular Recognition. Langmuir, 2006, 22, 5636-5644.	3.5	83

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73	Effect of d-isomer concentration on the coloration properties of poly(lactic acid). <i>Dyes and Pigments</i> , 2006, 70, 251-258.	3.7	27
74	Tensile and elastic behavior of tencel continuous filaments. <i>Journal of Applied Polymer Science</i> , 2006, 99, 1496-1503.	2.6	9
75	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.	2.6	3
76	Abrasion phenomena in twill tencel fabric. <i>Journal of Applied Polymer Science</i> , 2006, 102, 1391-1398.	2.6	37
77	Green Chemistry Methods in Sulfur Dyeing: Application of Various Reducing Sugars and Analysis of the Importance of Optimum Redox Potential. <i>Environmental Science & Technology</i> , 2004, 38, 4034-4039.	10.0	76
78	Natural Polysaccharides and Their Interactions with Dye Molecules: Applications in Effluent Treatment. <i>Environmental Science & Technology</i> , 2004, 38, 4905-4909.	10.0	392
79	Life cycle analysis of cotton towels: impact of domestic laundering and recommendations for extending periods between washing. The opinions expressed in the following article are entirely those of the authors and do not necessarily represent the views of either the Royal Society of Chemistry, the Editor or the Editorial Board of <i>Green Chemistry</i> . <i>Green Chemistry</i> , 2004, 6, G59.	9.0	19
80	Treatment of cellulose with cationic, nucleophilic polymers to enable reactive dyeing at neutral pH without electrolyte addition. <i>Journal of Applied Polymer Science</i> , 2003, 89, 1026-1031.	2.6	52
81	A greener approach to cotton dyeings with excellent wash fastness. <i>Green Chemistry</i> , 2002, 4, 47-52.	9.0	71
82	A greener approach to cotton dyeings. Part 2: application of Ti^{IV} metal complex acid dyes. Part 1 is ref. 1. <i>Green Chemistry</i> , 2002, 4, 261-265.	9.0	24