

Brian D Condon

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

2,923
citations

26
h-index

52
g-index

101
ext. papers

3,314
ext. citations

4.3
avg, IF

5.29
L-index

#	Paper	IF	Citations
93	Synthesis and characterization of TEMPO-oxidized peptide-cellulose conjugate biosensors for detecting human neutrophil elastase. <i>Cellulose</i> , 2022 , 29, 1293-1305	5.5	5
92	Detection of Human Neutrophil Elastase by Fluorescent Peptide Sensors Conjugated to TEMPO-Oxidized Nanofibrillated Cellulose.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	2
91	Silver Nanoparticle-Intercalated Cotton Fiber for Catalytic Degradation of Aqueous Organic Dyes for Water Pollution Mitigation. <i>Nanomaterials</i> , 2022 , 12, 1621	5.4	1
90	Application of Lignin-Containing Cellulose Nanofibers and Cottonseed Protein Isolate for Improved Performance of Paper. <i>Polymers</i> , 2022 , 14, 2154	4.5	
89	Lignin-containing cellulose nanofibers with gradient lignin content obtained from cotton gin motes and cotton gin trash. <i>Cellulose</i> , 2021 , 28, 757-773	5.5	9
88	Functional assessment of biodegradable cotton nonwoven substrates permeated with spatial insect repellants for disposable applications. <i>Textile Reseach Journal</i> , 2021 , 91, 1578-1593	1.7	
87	Effect of Nanocellulose on the Properties of Cottonseed Protein Isolate as a Paper Strength Agent. <i>Materials</i> , 2021 , 14,	3.5	3
86	Flame Resistant Cotton Fabric Containing Casein and Inorganic Materials Using an Environmentally-Friendly Microwave Assisted Technique. <i>Fibers and Polymers</i> , 2020 , 21, 2246-2252	2	2
85	Application of Brown Cotton-Supported Palladium Nanoparticles in SuzukiMiyaura Cross-Coupling Reactions. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6304-6309	5.6	10
84	Practical SERS method for assessment of the washing durability of textiles containing silver nanoparticles. <i>Analytical Methods</i> , 2020 , 12, 1186-1196	3.2	1
83	Structure/Function Relations of Chronic Wound Dressings and Emerging Concepts on the Interface of Nanocellulosic Sensors 2020 , 249-278		1
82	Quantification and spatial resolution of silver nanoparticles in cotton textiles by surface-enhanced Raman spectroscopy (SERS). <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1	2.3	7
81	Optimized hydroentanglement processing parameters for nonwoven fabrics composed entirely of cotton fibers. <i>Journal of Engineered Fibers and Fabrics</i> , 2020 , 15, 155892502093543	0.9	
80	Thermal properties and surface chemistry of cotton varieties mineralized with calcium carbonate polymorphs by cyclic dipping.. <i>RSC Advances</i> , 2020 , 10, 35214-35225	3.7	2
79	Cellulose hydrolysis using ionic liquids and inorganic acids under dilute conditions: morphological comparison of nanocellulose.. <i>RSC Advances</i> , 2020 , 10, 39413-39424	3.7	22
78	Development of a Nonwoven Hemostatic Dressing Based on Unbleached Cotton: A De Novo Design Approach. <i>Pharmaceutics</i> , 2020 , 12,	6.4	3
77	Physical and performance characteristics of nonwoven aviation wipers composed of various staple fibers including raw cotton. <i>Journal of Industrial Textiles</i> , 2020 , 49, 1198-1217	1.6	

76	Method for identifying the triple transition (glass transition-dehydration-crystallization) of amorphous cellulose in cotton. <i>Carbohydrate Polymers</i> , 2020 , 228, 115374	10.3	10
75	Silver Nanoparticle-Infused Cotton Fiber: Durability and Aqueous Release of Silver in Laundry Water. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 13231-13240	5.7	8
74	Alkali Hydrolysis of Sulfated Cellulose Nanocrystals: Optimization of Reaction Conditions and Tailored Surface Charge. <i>Nanomaterials</i> , 2019 , 9,	5.4	19
73	Extraction and characterization of nanocellulose crystals from cotton gin motes and cotton gin waste. <i>Cellulose</i> , 2019 , 26, 5959-5979	5.5	48
72	Nanocellulose as a colorimetric biosensor for effective and facile detection of human neutrophil elastase. <i>Carbohydrate Polymers</i> , 2019 , 216, 360-368	10.3	23
71	A reinforced thermal barrier coat of a Na-tannic acid complex from the view of thermal kinetics.. <i>RSC Advances</i> , 2019 , 9, 10914-10926	3.7	10
70	Use of cottonseed protein as a strength additive for nonwoven cotton. <i>Textile Reseach Journal</i> , 2019 , 89, 1725-1733	1.7	10
69	The effect of cotton fiber inclusion on the hard surface cleaning capacity of nonwoven substrates. <i>Journal of Engineered Fibers and Fabrics</i> , 2019 , 14, 155892501988962	0.9	2
68	Whole genome sequencing of a MAGIC population identified genomic loci and candidate genes for major fiber quality traits in upland cotton (<i>Gossypium hirsutum</i> L.). <i>Theoretical and Applied Genetics</i> , 2019 , 132, 989-999	6	26
67	Thermally Induced Structural Transitions in Cotton Fiber Revealed by a Finite Mixture Model of Tenacity Distribution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7420-7431	8.3	1
66	Peptide-Cellulose Conjugates on Cotton-Based Materials Have Protease Sensor/Sequestrant Activity. <i>Sensors</i> , 2018 , 18,	3.8	15
65	Structure/Function Analysis of Cotton-Based Peptide-Cellulose Conjugates: Spatiotemporal/Kinetic Assessment of Protease Aerogels Compared to Nanocrystalline and Paper Cellulose. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	14
64	The application of ultrasound and enzymes in textile processing of greige cotton. <i>Ultrasonics</i> , 2018 , 84, 223-233	3.5	15
63	Microwave Assisted Preparation of Flame Resistant Cotton Using Economic Inorganic Materials. <i>Fibers</i> , 2018 , 6, 85	3.7	5
62	Water-based binary polyol process for the controllable synthesis of silver nanoparticles inhibiting human and foodborne pathogenic bacteria.. <i>RSC Advances</i> , 2018 , 8, 21937-21947	3.7	9
61	The adsorption of alkyl-dimethyl-benzyl-ammonium chloride onto cotton nonwoven hydroentangled substrates at the solid-liquid interface is minimized by additive chemistries. <i>Textile Reseach Journal</i> , 2017 , 87, 70-80	1.7	13
60	Intumescent flame-retardant cotton produced by tannic acid and sodium hydroxide. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 126, 239-246	6	42
59	Designing cellulosic and nanocellulosic sensors for interface with a protease sequestrant wound-dressing prototype: Implications of material selection for dressing and protease sensor design. <i>Journal of Biomaterials Applications</i> , 2017 , 32, 622-637	2.9	19

58	The comparison of phosphorus-nitrogen and sulfur-phosphorus-nitrogen on the anti-flammability and thermal degradation of cotton fabrics. <i>Fibers and Polymers</i> , 2017 , 18, 666-674	2	4
57	Non-Bleaching Heather Method for Improved Whiteness of Greige Cotton. <i>Journal of Engineered Fibers and Fabrics</i> , 2017 , 12, 155892501701200	0.9	
56	Induction of Low-Level Hydrogen Peroxide Generation by Unbleached Cotton Nonwovens as Potential Wound Dressing Materials. <i>Journal of Functional Biomaterials</i> , 2017 , 8,	4.8	6
55	The GhTT2_A07 gene is linked to the brown colour and natural flame retardancy phenotypes of Lc1 cotton (<i>Gossypium hirsutum</i> L.) fibres. <i>Journal of Experimental Botany</i> , 2016 , 67, 5461-5471	7	23
54	Human neutrophil elastase peptide sensors conjugated to cellulosic and nanocellulosic materials: part I, synthesis and characterization of fluorescent analogs. <i>Cellulose</i> , 2016 , 23, 1283-1295	5.5	20
53	High resistance to thermal decomposition in brown cotton is linked to tannins and sodium content. <i>Cellulose</i> , 2016 , 23, 1137-1152	5.5	19
52	Segal crystallinity index revisited by the simulation of X-ray diffraction patterns of cotton cellulose I and cellulose II. <i>Carbohydrate Polymers</i> , 2016 , 135, 1-9	10.3	265
51	Preparation, Characterization and Activity of a Peptide-Cellulosic Aerogel Protease Sensor from Cotton. <i>Sensors</i> , 2016 , 16,	3.8	31
50	Comparison of biodegradation of low-weight hydroentangled raw cotton nonwoven fabric and that of commonly used disposable nonwoven fabrics in aerobic Captina silt loam soil. <i>Textile Reseach Journal</i> , 2016 , 86, 155-166	1.7	23
49	Human neutrophil elastase detection with fluorescent peptide sensors conjugated to cellulosic and nanocellulosic materials: part II, structure/function analysis. <i>Cellulose</i> , 2016 , 23, 1297-1309	5.5	21
48	Effect of polyester blends in hydroentangled raw and bleached cotton nonwoven fabrics on the adsorption of alkyl-dimethyl-benzyl-ammonium chloride. <i>Textile Reseach Journal</i> , 2015 , 85, 1221-1233	1.7	9
47	Kinetic and structural analysis of fluorescent peptides on cotton cellulose nanocrystals as elastase sensors. <i>Carbohydrate Polymers</i> , 2015 , 116, 278-85	10.3	27
46	Understanding the Mechanism of Action of Triazine-Phosphonate Derivatives as Flame Retardants for Cotton Fabric. <i>Molecules</i> , 2015 , 20, 11236-56	4.8	16
45	An Assessment of Surface Properties and Moisture Uptake of Nonwoven Fabrics from Ginning By-products 2015 ,		3
44	Physical and combustion properties of nonwoven fabrics produced from conventional and naturally colored cottons. <i>Textile Reseach Journal</i> , 2015 , 85, 1666-1680	1.7	10
43	Decreased immunoglobulin E (IgE) binding to cashew allergens following sodium sulfite treatment and heating. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 6746-55	5.7	26
42	Thermal decomposition reactions of cotton fabric treated with piperazine-phosphonates derivatives as a flame retardant. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014 , 110, 122-129	6	21
41	Enhanced thermal and combustion resistance of cotton linked to natural inorganic salt components. <i>Cellulose</i> , 2014 , 21, 791-802	5.5	19

40	Internally dispersed synthesis of uniform silver nanoparticles via in situ reduction of $[Ag(NH_3)_2]^+$ along natural microfibrillar substructures of cotton fiber. <i>Cellulose</i> , 2014 , 21, 2963-2972	5.5	26
39	Comparison of Soybean and Cottonseed Oils upon Hydrogenation with Nickel, Palladium and Platinum Catalysts. <i>JAACS, Journal of the American Oil Chemists Society</i> , 2014 , 91, 1461-1469	1.8	13
38	The comparison of differences in flammability and thermal degradation between cotton fabrics treated with phosphoramidate derivatives. <i>Polymers for Advanced Technologies</i> , 2014 , 25, 665-672	3.2	16
37	Surface Coating for Flame-Retardant Behavior of Cotton Fabric Using a Continuous Layer-by-Layer Process. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 3805-3812	3.9	108
36	Electrokinetic and hemostatic profiles of nonwoven cellulosic/synthetic fiber blends with unbleached cotton. <i>Journal of Functional Biomaterials</i> , 2014 , 5, 273-87	4.8	7
35	Application of a Phosphazene Derivative as a Flame Retardant for Cotton Fabric using Conventional Method and Supercritical CO ₂ . <i>AATCC Journal of Research</i> , 2014 , 1, 16-26	1	7
34	A pilot-scale nonwoven roll goods manufacturing process reduces microbial burden to pharmacopeia acceptance levels for non-sterile hygiene applications. <i>Textile Reseach Journal</i> , 2014 , 84, 546-558	1.7	6
33	Preliminary evidence of oxidation in standard oven drying of cotton: attenuated total reflectance/Fourier transform infrared spectroscopy, colorimetry, and particulate matter formation. <i>Textile Reseach Journal</i> , 2014 , 84, 157-173	1.7	5
32	Peptide conjugated cellulose nanocrystals with sensitive human neutrophil elastase sensor activity. <i>Cellulose</i> , 2013 , 20, 1223-1235	5.5	73
31	Structural Effect of Phosphoramidate Derivatives on the Thermal and Flame Retardant Behaviors of Treated Cotton Cellulose. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 4715-4724	3.9	84
30	Whiteness and absorbency of hydroentangled cotton-based nonwoven fabrics of different constituent fibers and fiber blends. <i>World Journal of Engineering</i> , 2013 , 10, 125-132	1.8	4
29	Immobilization of lysozyme-cellulose amide-linked conjugates on cellulose I and II cotton nanocrystalline preparations. <i>Cellulose</i> , 2012 , 19, 495-506	5.5	55
28	Antiflammable Properties of Capable Phosphorus-Nitrogen-Containing Triazine Derivatives on Cotton. <i>ACS Symposium Series</i> , 2012 , 123-137	0.4	4
27	Hydrogenation of Cottonseed Oil with Nickel, Palladium and Platinum Catalysts. <i>JAACS, Journal of the American Oil Chemists Society</i> , 2012 , 89, 1557	1.8	10
26	Synthesis of a novel flame retardant containing phosphorus-nitrogen and its comparison for cotton fabric. <i>Fibers and Polymers</i> , 2012 , 13, 963-970	2	27
25	Enhanced Flame Retardant Property of Fiber Reactive Halogen-Free Organophosphonate. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 11031-11037	3.9	34
24	Synthesis and characterization of a novel phosphorus-nitrogen-containing flame retardant and its application for textile. <i>Polymers for Advanced Technologies</i> , 2012 , 23, 1036-1044	3.2	39
23	Development of an environmentally friendly halogen-free phosphorus-nitrogen bond flame retardant for cotton fabrics. <i>Polymers for Advanced Technologies</i> , 2012 , 23, 1555-1563	3.2	64

22	Effect of water pressure on absorbency of hydroentangled greige cotton non-woven fabrics. <i>Textile Reseach Journal</i> , 2012 , 82, 21-26	1.7	28
21	Effect of web formation on properties of hydroentangled nonwoven fabrics. <i>World Journal of Engineering</i> , 2012 , 9, 407-416	1.8	5
20	Covalent attachment of lysozyme to cotton/cellulose materials: protein verses solid support activation. <i>Cellulose</i> , 2011 , 18, 1239-1249	5.5	31
19	Importance of poly(ethylene glycol) conformation for the synthesis of silver nanoparticles in aqueous solution. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 3755-3764	2.3	44
18	The application of ultrasound in the enzymatic hydrolysis of switchgrass. <i>Applied Biochemistry and Biotechnology</i> , 2011 , 165, 1322-31	3.2	29
17	Flame retardant properties of triazine phosphonates derivative with cotton fabric. <i>Fibers and Polymers</i> , 2011 , 12, 334-339	2	55
16	Intumescent all-polymer multilayer nanocoating capable of extinguishing flame on fabric. <i>Advanced Materials</i> , 2011 , 23, 3926-31	24	267
15	Flame-Retardant Materials: Intumescent All-Polymer Multilayer Nanocoating Capable of Extinguishing Flame on Fabric (Adv. Mater. 34/2011). <i>Advanced Materials</i> , 2011 , 23, 3868-3868	24	1
14	Analysis of 2-Acetyl-1-Pyrroline in Rice by HSSE/GC/MS. <i>Cereal Chemistry</i> , 2011 , 88, 271-277	2.4	30
13	Flame retardant behavior of polyelectrolyte-clay thin film assemblies on cotton fabric. <i>ACS Nano</i> , 2010 , 4, 3325-37	16.7	352
12	Preparation and characterization of aminobenzyl cellulose by two step synthesis from native cellulose. <i>Fibers and Polymers</i> , 2010 , 11, 1101-1105	2	6
11	Development of a Continuous Finishing Chemistry Process for Manufacture of a Phosphorylated Cotton Chronic Wound Dressing. <i>Journal of Industrial Textiles</i> , 2009 , 39, 27-43	1.6	10
10	Positively and negatively charged ionic modifications to cellulose assessed as cotton-based protease-lowering and hemostatic wound agents. <i>Cellulose</i> , 2009 , 16, 911-921	5.5	14
9	Acceleration of the Enzymatic Hydrolysis of Corn Stover and Sugar Cane Bagasse Celluloses by Low Intensity Uniform Ultrasound. <i>Journal of Biobased Materials and Bioenergy</i> , 2009 , 3, 25-31	1.4	110
8	A Bio-Sensor for Human Neutrophil Elastase Employs Peptide-p-Nitroanilide Cellulose Conjugates. <i>Sensor Letters</i> , 2008 , 6, 518-523	0.9	9
7	Optimization for enzyme-retting of flax with pectate lyase. <i>Industrial Crops and Products</i> , 2007 , 25, 136-146	1.4	78
6	New Uses for Immobilized Enzymes and Substrates on Cotton and Cellulose Fibers. <i>ACS Symposium Series</i> , 2007 , 171-185	0.4	1
5	Intensification of Enzymatic Reactions in Heterogeneous Systems by Low Intensity, Uniform Sonication: New Road to "Green Chemistry". <i>ACS Symposium Series</i> , 2007 , 137-156	0.4	5

4	Retention of configuration in the desilylative hydroxyalkylation of β -allyl sulfides. <i>Tetrahedron Letters</i> , 1989 , 30, 789-790	2	25
3	Diastereoselective reactions of an acyclic β -thiated sulfide: A case of thermodynamic control. <i>Tetrahedron Letters</i> , 1988 , 29, 2547-2550	2	53
2	Catheter infection. A comparison of two catheter maintenance techniques. <i>Annals of Surgery</i> , 1988 , 208, 651-3	7.8	39
1	A convenient procedure for the monosilylation of symmetric 1,n-diols. <i>Journal of Organic Chemistry</i> , 1986 , 51, 3388-3390	4.2	206