

# Brian D Condon

## List of Publications by Citations

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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	Flame retardant behavior of polyelectrolyte-clay thin film assemblies on cotton fabric. <i>ACS Nano</i> , <b>2010</b> , 4, 3325-37	16.7	352
92	Intumescent all-polymer multilayer nanocoating capable of extinguishing flame on fabric. <i>Advanced Materials</i> , <b>2011</b> , 23, 3926-31	24	267
91	Segal crystallinity index revisited by the simulation of X-ray diffraction patterns of cotton cellulose I and cellulose II. <i>Carbohydrate Polymers</i> , <b>2016</b> , 135, 1-9	10.3	265
90	A convenient procedure for the monosilylation of symmetric 1,n-diols. <i>Journal of Organic Chemistry</i> , <b>1986</b> , 51, 3388-3390	4.2	206
89	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> , <b>2009</b> , 3, 25-31	1.4	110
88	Surface Coating for Flame-Retardant Behavior of Cotton Fabric Using a Continuous Layer-by-Layer Process. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 3805-3812	3.9	108
87	Structural Effect of Phosphoramidate Derivatives on the Thermal and Flame Retardant Behaviors of Treated Cotton Cellulose. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 4715-4724	3.9	84
86	Optimization for enzyme-retting of flax with pectate lyase. <i>Industrial Crops and Products</i> , <b>2007</b> , 25, 136-146	1.4	78
85	Peptide conjugated cellulose nanocrystals with sensitive human neutrophil elastase sensor activity. <i>Cellulose</i> , <b>2013</b> , 20, 1223-1235	5.5	73
84	Development of an environmentally friendly halogen-free phosphorus-nitrogen bond flame retardant for cotton fabrics. <i>Polymers for Advanced Technologies</i> , <b>2012</b> , 23, 1555-1563	3.2	64
83	Immobilization of lysozyme-cellulose amide-linked conjugates on cellulose I and II cotton nanocrystalline preparations. <i>Cellulose</i> , <b>2012</b> , 19, 495-506	5.5	55
82	Flame retardant properties of triazine phosphonates derivative with cotton fabric. <i>Fibers and Polymers</i> , <b>2011</b> , 12, 334-339	2	55
81	Diastereoselective reactions of an acyclic dithiated sulfide: A case of thermodynamic control. <i>Tetrahedron Letters</i> , <b>1988</b> , 29, 2547-2550	2	53
80	Extraction and characterization of nanocellulose crystals from cotton gin motes and cotton gin waste. <i>Cellulose</i> , <b>2019</b> , 26, 5959-5979	5.5	48
79	Importance of poly(ethylene glycol) conformation for the synthesis of silver nanoparticles in aqueous solution. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 3755-3764	2.3	44
78	Intumescent flame-retardant cotton produced by tannic acid and sodium hydroxide. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2017</b> , 126, 239-246	6	42
77	Synthesis and characterization of a novel phosphorus-nitrogen-containing flame retardant and its application for textile. <i>Polymers for Advanced Technologies</i> , <b>2012</b> , 23, 1036-1044	3.2	39

76	Catheter infection. A comparison of two catheter maintenance techniques. <i>Annals of Surgery</i> , <b>1988</b> , 208, 651-3	7.8	39
75	Enhanced Flame Retardant Property of Fiber Reactive Halogen-Free Organophosphonate. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 11031-11037	3.9	34
74	Covalent attachment of lysozyme to cotton/cellulose materials: protein verses solid support activation. <i>Cellulose</i> , <b>2011</b> , 18, 1239-1249	5.5	31
73	Preparation, Characterization and Activity of a Peptide-Cellulosic Aerogel Protease Sensor from Cotton. <i>Sensors</i> , <b>2016</b> , 16,	3.8	31
72	Analysis of 2-Acetyl-1-Pyrroline in Rice by HSSE/GC/MS. <i>Cereal Chemistry</i> , <b>2011</b> , 88, 271-277	2.4	30
71	The application of ultrasound in the enzymatic hydrolysis of switchgrass. <i>Applied Biochemistry and Biotechnology</i> , <b>2011</b> , 165, 1322-31	3.2	29
70	Effect of water pressure on absorbency of hydroentangled greige cotton non-woven fabrics. <i>Textile Reseach Journal</i> , <b>2012</b> , 82, 21-26	1.7	28
69	Kinetic and structural analysis of fluorescent peptides on cotton cellulose nanocrystals as elastase sensors. <i>Carbohydrate Polymers</i> , <b>2015</b> , 116, 278-85	10.3	27
68	Synthesis of a novel flame retardant containing phosphorus-nitrogen and its comparison for cotton fabric. <i>Fibers and Polymers</i> , <b>2012</b> , 13, 963-970	2	27
67	Decreased immunoglobulin E (IgE) binding to cashew allergens following sodium sulfite treatment and heating. <i>Journal of Agricultural and Food Chemistry</i> , <b>2014</b> , 62, 6746-55	5.7	26
66	Internally dispersed synthesis of uniform silver nanoparticles via in situ reduction of [Ag(NH <sub>3</sub> ) <sub>2</sub> ] <sup>+</sup> along natural microfibrillar substructures of cotton fiber. <i>Cellulose</i> , <b>2014</b> , 21, 2963-2972	5.5	26
65	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> , <b>2019</b> , 132, 989-999	6	26
64	Retention of configuration in the desilylative hydroxyalkylation of $\beta$ -silyl sulfides. <i>Tetrahedron Letters</i> , <b>1989</b> , 30, 789-790	2	25
63	Nanocellulose as a colorimetric biosensor for effective and facile detection of human neutrophil elastase. <i>Carbohydrate Polymers</i> , <b>2019</b> , 216, 360-368	10.3	23
62	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> , <b>2016</b> , 67, 5461-5471	7	23
61	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> , <b>2016</b> , 86, 155-166	1.7	23
60	Cellulose hydrolysis using ionic liquids and inorganic acids under dilute conditions: morphological comparison of nanocellulose.. <i>RSC Advances</i> , <b>2020</b> , 10, 39413-39424	3.7	22
59	Thermal decomposition reactions of cotton fabric treated with piperazine-phosphonates derivatives as a flame retardant. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2014</b> , 110, 122-129	6	21

58	Human neutrophil elastase detection with fluorescent peptide sensors conjugated to cellulosic and nanocellulosic materials: part II, structure/function analysis. <i>Cellulose</i> , <b>2016</b> , 23, 1297-1309	5.5	21
57	Human neutrophil elastase peptide sensors conjugated to cellulosic and nanocellulosic materials: part I, synthesis and characterization of fluorescent analogs. <i>Cellulose</i> , <b>2016</b> , 23, 1283-1295	5.5	20
56	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> , <b>2017</b> , 32, 622-637	2.9	19
55	Alkali Hydrolysis of Sulfated Cellulose Nanocrystals: Optimization of Reaction Conditions and Tailored Surface Charge. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	19
54	High resistance to thermal decomposition in brown cotton is linked to tannins and sodium content. <i>Cellulose</i> , <b>2016</b> , 23, 1137-1152	5.5	19
53	Enhanced thermal and combustion resistance of cotton linked to natural inorganic salt components. <i>Cellulose</i> , <b>2014</b> , 21, 791-802	5.5	19
52	The comparison of differences in flammability and thermal degradation between cotton fabrics treated with phosphoramidate derivatives. <i>Polymers for Advanced Technologies</i> , <b>2014</b> , 25, 665-672	3.2	16
51	Understanding the Mechanism of Action of Triazine-Phosphonate Derivatives as Flame Retardants for Cotton Fabric. <i>Molecules</i> , <b>2015</b> , 20, 11236-56	4.8	16
50	Peptide-Cellulose Conjugates on Cotton-Based Materials Have Protease Sensor/Sequestrant Activity. <i>Sensors</i> , <b>2018</b> , 18,	3.8	15
49	The application of ultrasound and enzymes in textile processing of greige cotton. <i>Ultrasonics</i> , <b>2018</b> , 84, 223-233	3.5	15
48	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> , <b>2018</b> , 19,	6.3	14
47	Positively and negatively charged ionic modifications to cellulose assessed as cotton-based protease-lowering and hemostatic wound agents. <i>Cellulose</i> , <b>2009</b> , 16, 911-921	5.5	14
46	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> , <b>2017</b> , 87, 70-80	1.7	13
45	Comparison of Soybean and Cottonseed Oils upon Hydrogenation with Nickel, Palladium and Platinum Catalysts. <i>JAACS, Journal of the American Oil Chemistsr Society</i> , <b>2014</b> , 91, 1461-1469	1.8	13
44	A reinforced thermal barrier coat of a Na-tannic acid complex from the view of thermal kinetics.. <i>RSC Advances</i> , <b>2019</b> , 9, 10914-10926	3.7	10
43	Application of Brown Cotton-Supported Palladium Nanoparticles in Suzuki-Miyaura Cross-Coupling Reactions. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 6304-6309	5.6	10
42	Use of cottonseed protein as a strength additive for nonwoven cotton. <i>Textile Reseach Journal</i> , <b>2019</b> , 89, 1725-1733	1.7	10
41	Physical and combustion properties of nonwoven fabrics produced from conventional and naturally colored cottons. <i>Textile Reseach Journal</i> , <b>2015</b> , 85, 1666-1680	1.7	10

40	Hydrogenation of Cottonseed Oil with Nickel, Palladium and Platinum Catalysts. <i>JAOCS, Journal of the American Oil Chemists Society</i> , <b>2012</b> , 89, 1557	1.8	10
39	Development of a Continuous Finishing Chemistry Process for Manufacture of a Phosphorylated Cotton Chronic Wound Dressing. <i>Journal of Industrial Textiles</i> , <b>2009</b> , 39, 27-43	1.6	10
38	Method for identifying the triple transition (glass transition-dehydration-crystallization) of amorphous cellulose in cotton. <i>Carbohydrate Polymers</i> , <b>2020</b> , 228, 115374	10.3	10
37	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> , <b>2015</b> , 85, 1221-1233	1.7	9
36	A Bio-Sensor for Human Neutrophil Elastase Employs Peptide-p-Nitroanilide Cellulose Conjugates. <i>Sensor Letters</i> , <b>2008</b> , 6, 518-523	0.9	9
35	Lignin-containing cellulose nanofibers with gradient lignin content obtained from cotton gin motes and cotton gin trash. <i>Cellulose</i> , <b>2021</b> , 28, 757-773	5.5	9
34	Water-based binary polyol process for the controllable synthesis of silver nanoparticles inhibiting human and foodborne pathogenic bacteria.. <i>RSC Advances</i> , <b>2018</b> , 8, 21937-21947	3.7	9
33	Silver Nanoparticle-Infused Cotton Fiber: Durability and Aqueous Release of Silver in Laundry Water. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 13231-13240	5.7	8
32	Electrokinetic and hemostatic profiles of nonwoven cellulosic/synthetic fiber blends with unbleached cotton. <i>Journal of Functional Biomaterials</i> , <b>2014</b> , 5, 273-87	4.8	7
31	Application of a Phosphazene Derivative as a Flame Retardant for Cotton Fabric using Conventional Method and Supercritical CO <sub>2</sub> . <i>AATCC Journal of Research</i> , <b>2014</b> , 1, 16-26	1	7
30	Quantification and spatial resolution of silver nanoparticles in cotton textiles by surface-enhanced Raman spectroscopy (SERS). <i>Journal of Nanoparticle Research</i> , <b>2020</b> , 22, 1	2.3	7
29	Induction of Low-Level Hydrogen Peroxide Generation by Unbleached Cotton Nonwovens as Potential Wound Dressing Materials. <i>Journal of Functional Biomaterials</i> , <b>2017</b> , 8,	4.8	6
28	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> , <b>2014</b> , 84, 546-558	1.7	6
27	Preparation and characterization of aminobenzyl cellulose by two step synthesis from native cellulose. <i>Fibers and Polymers</i> , <b>2010</b> , 11, 1101-1105	2	6
26	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> , <b>2014</b> , 84, 157-173	1.7	5
25	Intensification of Enzymatic Reactions in Heterogeneous Systems by Low Intensity, Uniform Sonication: New Road to "Green Chemistry". <i>ACS Symposium Series</i> , <b>2007</b> , 137-156	0.4	5
24	Synthesis and characterization of TEMPO-oxidized peptide-cellulose conjugate biosensors for detecting human neutrophil elastase. <i>Cellulose</i> , <b>2022</b> , 29, 1293-1305	5.5	5
23	Effect of web formation on properties of hydroentangled nonwoven fabrics. <i>World Journal of Engineering</i> , <b>2012</b> , 9, 407-416	1.8	5

22	Microwave Assisted Preparation of Flame Resistant Cotton Using Economic Inorganic Materials. <i>Fibers</i> , <b>2018</b> , 6, 85	3.7	5
21	The comparison of phosphorus-nitrogen and sulfur-phosphorus-nitrogen on the anti-flammability and thermal degradation of cotton fabrics. <i>Fibers and Polymers</i> , <b>2017</b> , 18, 666-674	2	4
20	Antiflammable Properties of Capable Phosphorus-Nitrogen-Containing Triazine Derivatives on Cotton. <i>ACS Symposium Series</i> , <b>2012</b> , 123-137	0.4	4
19	Whiteness and absorbency of hydroentangled cotton-based nonwoven fabrics of different constituent fibers and fiber blends. <i>World Journal of Engineering</i> , <b>2013</b> , 10, 125-132	1.8	4
18	An Assessment of Surface Properties and Moisture Uptake of Nonwoven Fabrics from Ginning By-products <b>2015</b> ,		3
17	Development of a Nonwoven Hemostatic Dressing Based on Unbleached Cotton: A De Novo Design Approach. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	3
16	Effect of Nanocellulose on the Properties of Cottonseed Protein Isolate as a Paper Strength Agent. <i>Materials</i> , <b>2021</b> , 14,	3.5	3
15	Flame Resistant Cotton Fabric Containing Casein and Inorganic Materials Using an Environmentally-Friendly Microwave Assisted Technique. <i>Fibers and Polymers</i> , <b>2020</b> , 21, 2246-2252	2	2
14	Thermal properties and surface chemistry of cotton varieties mineralized with calcium carbonate polymorphs by cyclic dipping.. <i>RSC Advances</i> , <b>2020</b> , 10, 35214-35225	3.7	2
13	The effect of cotton fiber inclusion on the hard surface cleaning capacity of nonwoven substrates. <i>Journal of Engineered Fibers and Fabrics</i> , <b>2019</b> , 14, 155892501988962	0.9	2
12	Detection of Human Neutrophil Elastase by Fluorescent Peptide Sensors Conjugated to TEMPO-Oxidized Nanofibrillated Cellulose.. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23,	6.3	2
11	Practical SERS method for assessment of the washing durability of textiles containing silver nanoparticles. <i>Analytical Methods</i> , <b>2020</b> , 12, 1186-1196	3.2	1
10	Structure/Function Relations of Chronic Wound Dressings and Emerging Concepts on the Interface of Nanocellulosic Sensors <b>2020</b> , 249-278		1
9	Thermally Induced Structural Transitions in Cotton Fiber Revealed by a Finite Mixture Model of Tenacity Distribution. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 7420-7431	8.3	1
8	Flame-Retardant Materials: Intumescent All-Polymer Multilayer Nanocoating Capable of Extinguishing Flame on Fabric (Adv. Mater. 34/2011). <i>Advanced Materials</i> , <b>2011</b> , 23, 3868-3868	24	1
7	New Uses for Immobilized Enzymes and Substrates on Cotton and Cellulose Fibers. <i>ACS Symposium Series</i> , <b>2007</b> , 171-185	0.4	1
6	Silver Nanoparticle-Intercalated Cotton Fiber for Catalytic Degradation of Aqueous Organic Dyes for Water Pollution Mitigation. <i>Nanomaterials</i> , <b>2022</b> , 12, 1621	5.4	1
5	Non-Bleaching Heather Method for Improved Whiteness of Greige Cotton. <i>Journal of Engineered Fibers and Fabrics</i> , <b>2017</b> , 12, 155892501701200	0.9	

4	Optimized hydroentanglement processing parameters for nonwoven fabrics composed entirely of cotton fibers. <i>Journal of Engineered Fibers and Fabrics</i> , <b>2020</b> , 15, 155892502093543	0.9
3	Physical and performance characteristics of nonwoven aviation wipers composed of various staple fibers including raw cotton. <i>Journal of Industrial Textiles</i> , <b>2020</b> , 49, 1198-1217	1.6
2	Functional assessment of biodegradable cotton nonwoven substrates permeated with spatial insect repellants for disposable applications. <i>Textile Reseach Journal</i> , <b>2021</b> , 91, 1578-1593	1.7
1	Application of Lignin-Containing Cellulose Nanofibers and Cottonseed Protein Isolate for Improved Performance of Paper. <i>Polymers</i> , <b>2022</b> , 14, 2154	4.5