

Brian D Condon

List of Publications by Year in descending order

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96
papers

3,754
citations

147566

31
h-index

133063

59
g-index

101
all docs

101
docs citations

101
times ranked

4096
citing authors

#	ARTICLE	IF	CITATIONS
1	Segal crystallinity index revisited by the simulation of X-ray diffraction patterns of cotton cellulose I ² and cellulose II. <i>Carbohydrate Polymers</i> , 2016, 135, 1-9.	5.1	417
2	Flame Retardant Behavior of Polyelectrolyte-Clay Thin Film Assemblies on Cotton Fabric. <i>ACS Nano</i> , 2010, 4, 3325-3337.	7.3	394
3	Intumescent All-Polymer Multilayer Nanocoating Capable of Extinguishing Flame on Fabric. <i>Advanced Materials</i> , 2011, 23, 3926-3931.	11.1	311
4	A convenient procedure for the monosilylation of symmetric 1,n-diols. <i>Journal of Organic Chemistry</i> , 1986, 51, 3388-3390.	1.7	229
5	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.	1.8	129
6	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.	0.1	125
7	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.	1.8	97
8	Peptide conjugated cellulose nanocrystals with sensitive human neutrophil elastase sensor activity. <i>Cellulose</i> , 2013, 20, 1223-1235.	2.4	91
9	Optimization for enzyme-retting of flax with pectate lyase. <i>Industrial Crops and Products</i> , 2007, 25, 136-146.	2.5	89
10	Extraction and characterization of nanocellulose crystals from cotton gin motes and cotton gin waste. <i>Cellulose</i> , 2019, 26, 5959-5979.	2.4	84
11	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.	1.6	71
12	Intumescent flame-retardant cotton produced by tannic acid and sodium hydroxide. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 126, 239-246.	2.6	67
13	Flame retardant properties of triazine phosphonates derivative with cotton fabric. <i>Fibers and Polymers</i> , 2011, 12, 334-339.	1.1	66
14	Diastereoselective reactions of an acyclic β -lithiated sulfide: A case of thermodynamic control. <i>Tetrahedron Letters</i> , 1988, 29, 2547-2550.	0.7	62
15	Immobilization of lysozyme-cellulose amide-linked conjugates on cellulose I and II cotton nanocrystalline preparations. <i>Cellulose</i> , 2012, 19, 495-506.	2.4	61
16	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.	0.8	52
17	Catheter Infection. <i>Annals of Surgery</i> , 1988, 208, 651-653.	2.1	48
18	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.	1.6	46

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19	Analysis of 2-Acetyl-1-Pyrroline in Rice by HSSE/GC/MS. <i>Cereal Chemistry</i> , 2011, 88, 271-277.	1.1	43
20	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.	1.8	43
21	Nanocellulose as a colorimetric biosensor for effective and facile detection of human neutrophil elastase. <i>Carbohydrate Polymers</i> , 2019, 216, 360-368.	5.1	42
22	Preparation, Characterization and Activity of a Peptide-Cellulosic Aerogel Protease Sensor from Cotton. <i>Sensors</i> , 2016, 16, 1789.	2.1	41
23	Alkali Hydrolysis of Sulfated Cellulose Nanocrystals: Optimization of Reaction Conditions and Tailored Surface Charge. <i>Nanomaterials</i> , 2019, 9, 1232.	1.9	41
24	Enhanced Flame Retardant Property of Fiber Reactive Halogen-Free Organophosphonate. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 11031-11037.	1.8	38
25	The <i>GhTT2_A07</i> gene is linked to the brown colour and natural flame retardancy phenotypes of <i>Gossypium hirsutum</i> L. fibres. <i>Journal of Experimental Botany</i> , 2016, 67, 5461-5471.	2.4	37
26	Cellulose hydrolysis using ionic liquids and inorganic acids under dilute conditions: morphological comparison of nanocellulose. <i>RSC Advances</i> , 2020, 10, 39413-39424.	1.7	37
27	Covalent attachment of lysozyme to cotton/cellulose materials: protein versus solid support activation. <i>Cellulose</i> , 2011, 18, 1239-1249.	2.4	36
28	The Application of Ultrasound in the Enzymatic Hydrolysis of Switchgrass. <i>Applied Biochemistry and Biotechnology</i> , 2011, 165, 1322-1331.	1.4	36
29	Kinetic and structural analysis of fluorescent peptides on cotton cellulose nanocrystals as elastase sensors. <i>Carbohydrate Polymers</i> , 2015, 116, 278-285.	5.1	35
30	Effect of water pressure on absorbency of hydroentangled cotton non-woven fabrics. <i>Textile Research Journal</i> , 2012, 82, 21-26.	1.1	33
31	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 Research Journal</i> , 2016, 86, 155-166.	1.1	32
32	Synthesis of a novel flame retardant containing phosphorus-nitrogen and its comparison for cotton fabric. <i>Fibers and Polymers</i> , 2012, 13, 963-970.	1.1	31
33	Retention of configuration in the desilylative hydroxyalkylation of β -silyl sulfides. <i>Tetrahedron Letters</i> , 1989, 30, 789-790.	0.7	30
34	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.	2.4	30
35	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.	2.4	29
36	Decreased Immunoglobulin E (IgE) Binding to Cashew Allergens following Sodium Sulfite Treatment and Heating. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 6746-6755.	2.4	28

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37	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.	2.6	25
38	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.	1.2	25
39	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.	2.4	24
40	A reinforced thermal barrier coat of a Naâ€“tannic acid complex from the view of thermal kinetics. <i>RSC Advances</i> , 2019, 9, 10914-10926.	1.7	24
41	Enhanced thermal and combustion resistance of cotton linked to natural inorganic salt components. <i>Cellulose</i> , 2014, 21, 791-802.	2.4	23
42	High resistance to thermal decomposition in brown cotton is linked to tannins and sodium content. <i>Cellulose</i> , 2016, 23, 1137-1152.	2.4	23
43	Method for identifying the triple transition (glass transition-dehydration-crystallization) of amorphous cellulose in cotton. <i>Carbohydrate Polymers</i> , 2020, 228, 115374.	5.1	23
44	Understanding the Mechanism of Action of Triazine-Phosphonate Derivatives as Flame Retardants for Cotton Fabric. <i>Molecules</i> , 2015, 20, 11236-11256.	1.7	21
45	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, 840.	1.8	21
46	The application of ultrasound and enzymes in textile processing of greige cotton. <i>Ultrasonics</i> , 2018, 84, 223-233.	2.1	20
47	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.	1.6	19
48	Hydrogenation of Cottonseed Oil with Nickel, Palladium and Platinum Catalysts. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2012, 89, 1557-1566.	0.8	18
49	Peptide-Cellulose Conjugates on Cotton-Based Materials Have Protease Sensor/Sequestrant Activity. <i>Sensors</i> , 2018, 18, 2334.	2.1	18
50	Lignin-containing cellulose nanofibers with gradient lignin content obtained from cotton gin motes and cotton gin trash. <i>Cellulose</i> , 2021, 28, 757-773.	2.4	17
51	Comparison of Soybean and Cottonseed Oils upon Hydrogenation with Nickel, Palladium and Platinum Catalysts. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2014, 91, 1461-1469.	0.8	16
52	The adsorption of alkyl-dimethyl-benzyl-ammonium chloride onto cotton nonwoven hydroentangled substrates at the solidâ€“liquid interface is minimized by additive chemistries. <i>Textile Research Journal</i> , 2017, 87, 70-80.	1.1	16
53	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.	2.4	16
54	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.	2.4	15

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55	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.	1.7	15
56	Physical and combustion properties of nonwoven fabrics produced from conventional and naturally colored cottons. <i>Textile Research Journal</i> , 2015, 85, 1666-1680.	1.1	14
57	Application of Brown Cotton-Supported Palladium Nanoparticles in Suzuki–Miyaura Cross-Coupling Reactions. <i>ACS Applied Nano Materials</i> , 2020, 3, 6304-6309.	2.4	14
58	Use of cottonseed protein as a strength additive for nonwoven cotton. <i>Textile Research Journal</i> , 2019, 89, 1725-1733.	1.1	13
59	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.	1.1	12
60	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.	0.8	12
61	Synthesis and characterization of TEMPO-oxidized peptide-cellulose conjugate biosensors for detecting human neutrophil elastase. <i>Cellulose</i> , 2022, 29, 1293-1305.	2.4	11
62	Electrokinetic and Hemostatic Profiles of Nonwoven Cellulosic/Synthetic Fiber Blends with Unbleached Cotton. <i>Journal of Functional Biomaterials</i> , 2014, 5, 273-287.	1.8	10
63	Effect of polyester blends in hydroentangled raw and bleached cotton nonwoven fabrics on the adsorption of alkyl-dimethyl-benzyl-ammonium chloride. <i>Textile Research Journal</i> , 2015, 85, 1221-1233.	1.1	10
64	A Bio-Sensor for Human Neutrophil Elastase Employs Peptide-p-Nitroanilide Cellulose Conjugates. <i>Sensor Letters</i> , 2008, 6, 518-523.	0.4	10
65	Preparation and characterization of aminobenzyl cellulose by two step synthesis from native cellulose. <i>Fibers and Polymers</i> , 2010, 11, 1101-1105.	1.1	9
66	Development of a Nonwoven Hemostatic Dressing Based on Unbleached Cotton: A De Novo Design Approach. <i>Pharmaceutics</i> , 2020, 12, 609.	2.0	9
67	A pilot-scale nonwoven roll goods manufacturing process reduces microbial burden to pharmacopeia acceptance levels for non-sterile hygiene applications. <i>Textile Research Journal</i> , 2014, 84, 546-558.	1.1	8
68	Induction of Low-Level Hydrogen Peroxide Generation by Unbleached Cotton Nonwovens as Potential Wound Dressing Materials. <i>Journal of Functional Biomaterials</i> , 2017, 8, 9.	1.8	8
69	Detection of Human Neutrophil Elastase by Fluorescent Peptide Sensors Conjugated to TEMPO-Oxidized Nanofibrillated Cellulose. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3101.	1.8	8
70	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.	0.3	7
71	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.	1.1	7
72	Effect of Nanocellulose on the Properties of Cottonseed Protein Isolate as a Paper Strength Agent. <i>Materials</i> , 2021, 14, 4128.	1.3	7

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73	Silver Nanoparticle-Intercalated Cotton Fiber for Catalytic Degradation of Aqueous Organic Dyes for Water Pollution Mitigation. <i>Nanomaterials</i> , 2022, 12, 1621.	1.9	6
74	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.	0.5	5
75	Antiflammable Properties of Capable Phosphorus~Nitrogen-Containing Triazine Derivatives on Cotton. <i>ACS Symposium Series</i> , 2012, , 123-137.	0.5	5
76	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.	1.1	5
77	Microwave Assisted Preparation of Flame Resistant Cotton Using Economic Inorganic Materials. <i>Fibers</i> , 2018, 6, 85.	1.8	5
78	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.	0.5	5
79	Effect of web formation on properties of hydroentangled nonwoven fabrics. <i>World Journal of Engineering</i> , 2012, 9, 407-416.	1.0	5
80	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.	1.0	4
81	An Assessment of Surface Properties and Moisture Uptake of Nonwoven Fabrics from Ginning By-products. , 0, , .		4
82	Ascorbic Acid as an Adjuvant to Unbleached Cotton Promotes Antimicrobial Activity in Spunlace Nonwovens. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3598.	1.8	4
83	Thermosensitive textiles made from silver nanoparticle-filled brown cotton fibers. <i>Nanoscale Advances</i> , 2022, 4, 3725-3736.	2.2	4
84	Optimized hydroentanglement processing parameters for nonwoven fabrics composed entirely of cotton fibers. <i>Journal of Engineered Fibers and Fabrics</i> , 2020, 15, 155892502093543.	0.5	3
85	Thermal properties and surface chemistry of cotton varieties mineralized with calcium carbonate polymorphs by cyclic dipping. <i>RSC Advances</i> , 2020, 10, 35214-35225.	1.7	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.	1.1	3
87	Structure/Function Analysis of Truncated Amino-Terminal ACE2 Peptide Analogs That Bind to SARS-CoV-2 Spike Glycoprotein. <i>Molecules</i> , 2022, 27, 2070.	1.7	3
88	New Uses for Immobilized Enzymes and Substrates on Cotton and Cellulose Fibers. <i>ACS Symposium Series</i> , 2007, , 171-185.	0.5	2
89	Practical SERS method for assessment of the washing durability of textiles containing silver nanoparticles. <i>Analytical Methods</i> , 2020, 12, 1186-1196.	1.3	2
90	Structure/Function Relations of Chronic Wound Dressings and Emerging Concepts on the Interface of Nanocellulosic Sensors. , 2020, , 249-278.		2

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91	Application of Lignin-Containing Cellulose Nanofibers and Cottonseed Protein Isolate for Improved Performance of Paper. <i>Polymers</i> , 2022, 14, 2154.	2.0	2
92	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.	11.1	1
93	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.	3.2	1
94	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.	1.1	1
95	Non-Bleaching Heather Method for Improved Whiteness of Greige Cotton. <i>Journal of Engineered Fibers and Fabrics</i> , 2017, 12, 155892501701200.	0.5	0
96	Functional assessment of biodegradable cotton nonwoven substrates permeated with spatial insect repellants for disposable applications. <i>Textile Research Journal</i> , 2021, 91, 1578-1593.	1.1	0