Sunghyun Nam

List of Publications by Year
in descending order

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30 papers	1,377 citations	687363 13 h-index	477307 29 g-index
30 all docs	30 docs citations	30 times ranked	1730 citing authors

#	Article	IF	Citations
1	Chemical Composition and Thermogravimetric Behaviors of Glanded and Glandless Cottonseed Kernels. Molecules, 2022, 27, 316.	3.8	16
2	Silver Nanoparticle-Intercalated Cotton Fiber for Catalytic Degradation of Aqueous Organic Dyes for Water Pollution Mitigation. Nanomaterials, 2022, 12, 1621.	4.1	6
3	Thermosensitive textiles made from silver nanoparticle-filled brown cotton fibers. Nanoscale Advances, 2022, 4, 3725-3736.	4.6	4
4	Comparison of the wood bonding performance of water- and alkali-soluble cottonseed protein fractions. Journal of Adhesion Science and Technology, 2021, 35, 1500-1517.	2.6	10
5	Surface and Thermal Characterization of Cotton Fibers of Phenotypes Differing in Fiber Length. Polymers, 2021, 13, 994.	4.5	9
6	Recent Developments of Carboxymethyl Cellulose. Polymers, 2021, 13, 1345.	4.5	258
7	An environmentally-friendly sandwich-like structured nanocoating system for wash durable, flame retardant, and hydrophobic cotton fabrics. Cellulose, 2021, 28, 10277-10289.	4.9	15
8	Antimicrobial and Hemostatic Activities of Cotton-Based Dressings Designed to Address Prolonged Field Care Applications. Military Medicine, 2021, 186, 116-121.	0.8	4
9	Brown Cotton Fibers Self-Produce Ag Nanoparticles for Regenerating Their Antimicrobial Surfaces. ACS Applied Nano Materials, 2021, 4, 13112-13122.	5.0	7
10	Method for identifying the triple transition (glass transition-dehydration-crystallization) of amorphous cellulose in cotton. Carbohydrate Polymers, 2020, 228, 115374.	10.2	23
11	Thermal properties and surface chemistry of cotton varieties mineralized with calcium carbonate polymorphs by cyclic dipping. RSC Advances, 2020, 10, 35214-35225.	3.6	3
12	Flame Resistant Cotton Fabric Containing Casein and Inorganic Materials Using an Environmentally-Friendly Microwave Assisted Technique. Fibers and Polymers, 2020, 21, 2246-2252.	2.1	3
13	Practical SERS method for assessment of the washing durability of textiles containing silver nanoparticles. Analytical Methods, 2020, 12, 1186-1196.	2.7	2
14	Silver Nanoparticle-Infused Cotton Fiber: Durability and Aqueous Release of Silver in Laundry Water. Journal of Agricultural and Food Chemistry, 2020, 68, 13231-13240.	5.2	16
15	Quantification and spatial resolution of silver nanoparticles in cotton textiles by surface-enhanced Raman spectroscopy (SERS). Journal of Nanoparticle Research, 2020, 22, 1.	1.9	12
16	Changing the Landscape: An Introduction to the Agricultural and Food Chemistry Technical Program at the 258th American Chemical Society National Meeting in San Diego. Journal of Agricultural and Food Chemistry, 2020, 68, 12769-12772.	5.2	0
17	Nanocellulose as a colorimetric biosensor for effective and facile detection of human neutrophil elastase. Carbohydrate Polymers, 2019, 216, 360-368.	10.2	42
18	A reinforced thermal barrier coat of a Naâ€“tannic acid complex from the view of thermal kinetics. RSC Advances, 2019, 9, 10914-10926.	3.6	24

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19	Effects of ball milling on the structure of cotton cellulose. Cellulose, 2019, 26, 305-328.	4.9	253
20	Thermally Induced Structural Transitions in Cotton Fiber Revealed by a Finite Mixture Model of Tenacity Distribution. ACS Sustainable Chemistry and Engineering, 2018, 6, 7420-7431.	6.7	1
21	Water-based binary polyol process for the controllable synthesis of silver nanoparticles inhibiting human and foodborne pathogenic bacteria. RSC Advances, 2018, 8, 21937-21947.	3.6	15
22	Intumescent flame-retardant cotton produced by tannic acid and sodium hydroxide. Journal of Analytical and Applied Pyrolysis, 2017, 126, 239-246.	5.5	67
23	Natural resistance of raw cotton fiber to heat evidenced by the suppressed depolymerization of cellulose. Polymer Degradation and Stability, 2017, 138, 133-141.	5.8	23
24	Induction of Low-Level Hydrogen Peroxide Generation by Unbleached Cotton Nonwovens as Potential Wound Dressing Materials. Journal of Functional Biomaterials, 2017, 8, 9.	4.4	8
25	High resistance to thermal decomposition in brown cotton is linked to tannins and sodium content. Cellulose, 2016, 23, 1137-1152.	4.9	23
26	Segal crystallinity index revisited by the simulation of X-ray diffraction patterns of cotton cellulose Iˆ2 and cellulose II. Carbohydrate Polymers, 2016, 135, 1-9.	10.2	417
27	Enhanced thermal and combustion resistance of cotton linked to natural inorganic salt components. Cellulose, 2014, 21, 791-802.	4.9	23
28	Internally dispersed synthesis of uniform silver nanoparticles via in situ reduction of [Ag(NH3)2]+ along natural microfibrillar substructures of cotton fiber. Cellulose, 2014, 21, 2963-2972.	4.9	30
29	Evaluation of three flame retardant (FR) grey cotton blend nonwoven fabrics using micro-scale combustion calorimeter. Journal of Fire Sciences, 2012, 30, 187-200.	2.0	11
30	Importance of poly(ethylene glycol) conformation for the synthesis of silver nanoparticles in aqueous solution. Journal of Nanoparticle Research, 2011, 13, 3755-3764.	1.9	52