Lokendra Pal

List of Publications by Year
in descending order

53 papers	2,104 citations	257357 24 h-index	233338 45 g-index
53 all docs	53 docs citations	53 times ranked	2380 citing authors

#	Article	IF	Citations
1	Nanocellulose in packaging: Advances in barrier layer technologies. Industrial Crops and Products, 2017, 95, 574-582.	2.5	268
2	Rheology of nanocellulose-rich aqueous suspensions: A Review. BioResources, 2017, 12, 9556-9661.	0.5	196
3	Nanocellulose in Thin Films, Coatings, and Plies for Packaging Applications: A Review. BioResources, 2016, 12, 2143-2233.	0.5	189
4	Hydrogel-Based Sensor Networks: Compositions, Properties, and Applicationsâ€"A Review. ACS Applied Bio Materials, 2021, 4, 140-162.	2.3	139
5	Cellulose and nanocellulose-based flexible-hybrid printed electronics and conductive composites â€" A review. Carbohydrate Polymers, 2018, 198, 249-260.	5.1	137
6	Advances in barrier coatings and film technologies for achieving sustainable packaging of food products â€" A review. Trends in Food Science and Technology, 2021, 115, 461-485.	7.8	122
7	Nanocellulose-based multilayer barrier coatings for gas, oil, and grease resistance. Carbohydrate Polymers, 2019, 206, 281-288.	5.1	92
8	Conversion Economics of Forest Biomaterials: Risk and Financial Analysis of <scp>CNC</scp> Manufacturing. Biofuels, Bioproducts and Biorefining, 2017, 11, 682-700.	1.9	91
9	Recent advances in biodegradable matrices for active ingredient release in crop protection: Towards attaining sustainability in agriculture. Current Opinion in Colloid and Interface Science, 2020, 48, 121-136.	3.4	55
10	High-Strength Antibacterial Chitosanâ€"Cellulose Nanocrystal Composite Tissue Paper. Langmuir, 2019, 35, 104-112.	1.6	51
11	Unique thermo-responsivity and tunable optical performance of poly(N-isopropylacrylamide)-cellulose nanocrystal hydrogel films. Carbohydrate Polymers, 2019, 208, 495-503.	5.1	49
12	Flexible and Pressure-Responsive Sensors from Cellulose Fibers Coated with Multiwalled Carbon Nanotubes. ACS Applied Electronic Materials, 2019, 1, 1179-1188.	2.0	46
13	Highly tunable bioadhesion and optics of 3D printable PNIPAm/cellulose nanofibrils hydrogels. Carbohydrate Polymers, 2020, 234, 115898.	5.1	45
14	High performance nanocellulose-based composite coatings for oil and grease resistance. Cellulose, 2018, 25, 3377-3391.	2.4	39
15	Understanding the Effect of Machine Technology and Cellulosic Fibers on Tissue Properties â€" A Review. BioResources, 2018, 13, .	0.5	39
16	Using micro- and nanofibrillated cellulose as a means to reduce weight of paper products: A review. BioResources, 2020, 15, 4553-4590.	0.5	33
17	A Critical Review of the Performance and Soil Biodegradability Profiles of Biobased Natural and Chemically Synthesized Polymers in Industrial Applications. Environmental Science & Technology, 2022, 56, 2071-2095.	4.6	33
18	Innovating Generation of Nanocellulose from Industrial Hemp by Dual Asymmetric Centrifugation. ACS Sustainable Chemistry and Engineering, 2020, 8, 1850-1858.	3.2	32

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19	Review of electrically conductive composites and films containing cellulosic fibers or nanocellulose. BioResources, 2019, 14, 7494-7542.	0.5	31
20	Hydrothermal and mechanically generated hemp hurd nanofibers for sustainable barrier coatings/films. Industrial Crops and Products, 2021, 168, 113582.	2.5	28
21	Comparison of wood and non-wood market pulps for tissue paper application. BioResources, 2019, 14, 6781-6810.	0.5	28
22	The Topochemistry of Cellulose Nanofibrils as a Function of Mechanical Generation Energy. ACS Sustainable Chemistry and Engineering, 2020, 8, 1471-1478.	3.2	27
23	Carboxymethylation of hemicellulose isolated from poplar (Populus grandidentata) and its potential in water-soluble oxygen barrier films. Cellulose, 2020, 27, 3359-3377.	2.4	27
24	Ecofriendly and innovative processing of hemp hurds fibers for tissue and towel paper. BioResources, 2020, 15, 706-720.	0.5	27
25	Relationship between human perception of softness and instrument measurements. BioResources, 2019, 14, 780-795.	0.5	25
26	Lipase-catalyzed laurate esterification of cellulose nanocrystals and their use as reinforcement in PLA composites. Cellulose, 2020, 27, 6263-6273.	2.4	23
27	Evaluation of paper straws versus plastic straws: Development of a methodology for testing and understanding challenges for paper straws. BioResources, 2019, 14, 8345-8363.	0.5	23
28	Soy Proteins As a Sustainable Solution to Strengthen Recycled Paper and Reduce Deposition of Hydrophobic Contaminants in Papermaking: A Bench and Pilot-Plant Study. ACS Sustainable Chemistry and Engineering, 2017, 5, 7211-7219.	3.2	22
29	Highly conductive carbon nanotubes and flexible cellulose nanofibers composite membranes with semi-interpenetrating networks structure. Carbohydrate Polymers, 2019, 222, 115013.	5.1	20
30	Lignocellulosic Fibers from Renewable Resources Using Green Chemistry for a Circular Economy. Global Challenges, 2021, 5, 2000065.	1.8	19
31	A systematic examination of the dynamics of water-cellulose interactions on capillary force-induced fiber collapse. Carbohydrate Polymers, 2022, 295, 119856.	5.1	19
32	Performance and sustainability vs. the shelf price of tissue paper kitchen towels. BioResources, 2018, 13, 6868-6892.	0.5	17
33	Comparison between uncreped and creped handsheets on tissue paper properties using a creping simulator unit. Cellulose, 2020, 27, 5981-5999.	2.4	14
34	Wet-end addition of nanofibrillated cellulose pretreated with cationic starch to achieve paper strength with less refining and higher bulk. Tappi Journal, 2018, 17, 395-403.	0.2	13
35	Tailored Lignocellulose-Based Biodegradable Matrices with Effective Cargo Delivery for Crop Protection. ACS Sustainable Chemistry and Engineering, 2020, 8, 6590-6600.	3.2	12
36	3D Photoinduced Spatiotemporal Resolution of Cellulose-Based Hydrogels for Fabrication of Biomedical Devices. ACS Applied Bio Materials, 2020, 3, 5007-5019.	2.3	10

#	Article	IF	Citations
37	Soft mechanical treatments of recycled fibers using a high-shear homogenizer for tissue and hygiene products. Cellulose, 2021, 28, 7981-7994.	2.4	10
38	High barrier sustainable co-polymerized coatings. Journal of Coatings Technology Research, 2008, 5, 479-489.	1.2	7
39	Custom tailoring of conductive ink/substrate properties for increased thin film deposition of poly(dimethylsiloxane) films. Journal of Materials Science: Materials in Electronics, 2018, 29, 10461-10470.	1.1	7
40	Crude Wood Rosin and Its Derivatives as Hydrophobic Surface Treatment Additives for Paper and Packaging. ACS Omega, 2020, 5, 31559-31566.	1.6	7
41	Using micro- and nanofibrillated cellulose as a means to reduce weight of paper products: A review. BioResources, 2020, 15, 4553-4590.	0.5	5
42	Wrap-and-plant technology to manage sustainably potato cyst nematodes in East Africa. Nature Sustainability, 0, , .	11.5	5
43	Lignin-containing micro/nanofibrillated cellulose to strengthen recycled fibers for lightweight sustainable packaging solutions. Carbohydrate Polymer Technologies and Applications, 2021, 2, 100135.	1.6	4
44	Sustainable atmospheric-pressure plasma treatment of cellulose triacetate (CTA) films for electronics. Journal of Applied Physics, 2020, 128, 075302.	1.1	3
45	Nanopolysaccharides in Barrier Composites. Springer Series in Biomaterials Science and Engineering, 2019, , 321-366.	0.7	3
46	Paper Need Not Be Flat: Paper and Biomaterials Industries Need to Converge to Bring about True Innovation. BioResources, 2017, 12, 2249-2251.	0.5	3
47	Production of polyhydroxyalkanoates (PHA)-based renewable packaging materials using photonic energy: A bench and pilot-scale study. Tappi Journal, 2018, 17, 557-565.	0.2	3
48	Creating hierarchically porous banana paper-metal organic framework (MOF) composites with multifunctionality. Applied Materials Today, 2022, 28, 101517.	2.3	2
49	Transparent and high barrier plasma functionalized acrylic coated cellulose triacetate films. Progress in Organic Coatings, 2021, 150, 105988.	1.9	1
50	Study of tobaccoâ€derived proteins in paper coatings. Biopolymers, 2021, 112, e23425.	1.2	1
51	Citrus-based hydrocolloids: A water retention aid and rheology modifier for paper coatings. Tappi Journal, 2019, 18, 443-450.	0.2	1
52	Evidence for antimicrobial activity in hemp hurds and lignin-containing nanofibrillated cellulose materials. Cellulose, 0, , .	2.4	1
53	Cover Image, Volume 11, Issue 4. Biofuels, Bioproducts and Biorefining, 2017, 11, i-i.	1.9	0