Hak Lae Lee

List of Publications by Year
in descending order

48 papers	770 citations	687363 13 h-index	526287 27 g-index
48 all docs	48 docs citations	48 times ranked	838 citing authors

#	Article	IF	Citations
1	Subnanomolar Sensitivity of Filter Paper-Based SERS Sensor for Pesticide Detection by Hydrophobicity Change of Paper Surface. ACS Sensors, 2018, 3, 151-159.	7.8	165
2	Preparation of cross-linked cellulose nanofibril aerogel with water absorbency and shape recovery. Cellulose, 2015, 22, 3715-3724.	4.9	75
3	Optimization of carboxymethylation reaction as a pretreatment for production of cellulose nanofibrils. Cellulose, 2018, 25, 3873-3883.	4.9	51
4	Cellulose nanofibril/carbon nanotube composite foam-stabilized paraffin phase change material for thermal energy storage and conversion. Carbohydrate Polymers, 2021, 273, 118585.	10.2	51
5	Hydrogen peroxide bleaching of hardwood kraft pulp with adsorbed birch xylan and its effect on paper properties. BioResources, 2011, 6, 721-736.	1.0	39
6	Improving the Barrier Properties of Packaging Paper by Polyvinyl Alcohol Based Polymer Coatingâ€"Effect of the Base Paper and Nanoclay. Polymers, 2021, 13, 1334.	4.5	38
7	The effects of process variables for GCC pre-flocculation on floc and handsheet properties. Nordic Pulp and Paper Research Journal, 2012, 27, 382-387.	0.7	31
8	Use of cellulose nanofibril (CNF)/silver nanoparticles (AgNPs) composite in salt hydrate phase change material for efficient thermal energy storage. International Journal of Biological Macromolecules, 2021, 174, 402-412.	7.5	30
9	Role of Cellulose Nanofibrils in Structure Formation of Pigment Coating Layers. Industrial & Engineering Chemistry Research, 2017, 56, 9569-9577.	3.7	25
10	Fold cracking of coated paper: The effect of pulp fiber composition and beating. Nordic Pulp and Paper Research Journal, 2012, 27, 445-450.	0.7	24
11	Cellulose nanofibrils coated paper substrate to detect trace molecules using surface-enhanced Raman scattering. Cellulose, 2018, 25, 3339-3350.	4.9	22
12	Facile fabrication of hydrophobic cellulosic paper with good barrier properties via PVA/AKD dispersion coating. Nordic Pulp and Paper Research Journal, 2019, 34, 516-524.	0.7	20
13	Effects of coating composition and folding direction on the fold cracking of coated paper. Nordic Pulp and Paper Research Journal, 2016, 31, 347-353.	0.7	15
14	Effect of coating binder on fold cracking of coated paper. Nordic Pulp and Paper Research Journal, 2015, 30, 361-368.	0.7	14
15	Comparison of Effects of Sodium Chloride and Potassium Chloride on Spray Drying and Redispersion of Cellulose Nanofibrils Suspension. Nanomaterials, 2021, 11, 439.	4.1	14
16	Adsorption and viscoelastic properties of cationic xylan on cellulose film using QCM-D. Cellulose, 2014, 21, 1251-1260.	4.9	13
17	Preparation of surface-charged CNF aerogels and investigation of their ion adsorption properties. Cellulose, 2017, 24, 2895-2902.	4.9	13
18	Morphological characteristics of carboxymethylated cellulose nanofibrils: the effect of carboxyl content. Cellulose, 2018, 25, 5781-5789.	4.9	13

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19	Effects of hydroxyethyl methacrylate comonomer in styrene/acrylate latex on coating structure and printability. Progress in Organic Coatings, 2020, 147, 105862.	3.9	13
20	Characterization of Paper Coating Structure Using FIB and FE-SEM. 1. New Method for Image Analysis. Industrial & Engineering Chemistry Research, 2018, 57, 4237-4244.	3.7	9
21	Characterization of the Paper Coating Structure Using Focused Ion Beam and Field-Emission Scanning Electron Microscopy. 2. Structural Variation Depending on the Glass Transition Temperature of an S/B Latex. Industrial & Engineering Chemistry Research, 2018, 57, 16718-16726.	3.7	9
22	Stress Development in a Cellulose-Nanofibril-Containing Pigment Coating Layer during Drying. Industrial & Engineering Chemistry Research, 2019, 58, 18187-18196.	3.7	9
23	Structure characterization of ground calcium carbonate flocs by fractal analysis and their effects on handsheet properties. Tappi Journal, 2013, 12, 17-23.	0.5	7
24	The Effect of a Polymer-Stabilized Latex Cobinder on the Optical and Strength Properties of Pigment Coating Layers. Polymers, 2021, 13, 568.	4.5	6
25	Effect of core-shell structure latex on pigment coating properties. BioResources, 2019, 14, 1241-1251.	1.0	6
26	Deposition Behavior of LbL Multilayered GCC Particles on Pulp Fibers. BioResources, 2013, 8, .	1.0	6
27	Structural Changes of the Coating Layer by Styrene/Acrylate Latex with Hydroxyethyl Methacrylate. ACS Omega, 2019, 4, 18405-18412.	3.5	5
28	Recycling of isopropanol for cost-effective, environmentally friendly production of carboxymethylated cellulose nanofibrils. Carbohydrate Polymers, 2019, 208, 365-371.	10.2	5
29	Retention Performance of Nanocoated GCC with Positive Charge. Palpu Chongi Gisul/Journal of Korea Technical Association of the Pulp and Paper Industry, 2013, 45, 14~22-14~22.	0.4	5
30	Incorporation of CNF with Different Charge Property into PVP Hydrogel and Its Characteristics. Nanomaterials, 2021, 11, 426.	4.1	4
31	Effects of Fractionation and Mechanical Treatments of Korean OCC on Paper Properties. Nordic Pulp and Paper Research Journal, 2017, 32, 148-154.	0.7	4
32	Novel method for the evaluation of mechanical property of pigment coating layer and its application: Influence of spreading of latex binder on final properties of coating layer. Progress in Organic Coatings, 2022, 163, 106652.	3.9	4
33	UV/Vis Spectrometry-Based Analysis of Alkyl Ketene Dimer (AKD) Retention to Solve the Waxy Spot Problem in the Papermaking Process. ACS Omega, 2020, 5, 11227-11234.	3.5	3
34	Development and Application of Nanosized Polymer-Stabilized Cobinders and Their Effect on the Viscoelastic Properties and Foaming Tendencies of Coating Colors. ACS Omega, 2020, 5, 9291-9300.	3.5	3
35	Effect of Ground Calcium Carbonate Modified by Washless Multilayering of Polyelectrolytes on Paper Quality. Palpu Chongi Gisul/Journal of Korea Technical Association of the Pulp and Paper Industry, 2015, 47, 115-126.	0.4	3
36	Evaluation of the flocculation phenomena of GCC by polymeric retention systems. Nordic Pulp and Paper Research Journal, 2014, 29, 418-424.	0.7	2

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37	Analysis of Spotty Deposits on Fine Paper and Investigation of Key Factors Affecting Alkyl Ketene Dimer Spot Formation. ACS Omega, 2020, 5, 15529-15536.	3.5	2
38	Effect of coating formulations and drying methods on the coverage and smoothness of brown grade base papers. Nordic Pulp and Paper Research Journal, 2012, 27, 79-85.	0.7	2
39	Effect of the glass-transition temperature of latexes on drying-stress development of latex films and inkjet coating layers. Nordic Pulp and Paper Research Journal, 2020, 35, 660-669.	0.7	2
40	Quantitative characterization of the spreading and adhesion of styrene-butadiene latex binder in the dried pigment coating layer. Progress in Organic Coatings, 2022, 162, 106555.	3.9	2
41	Adsorption of Xylan onto Cellulose Fibers Pretreated with Cationic Polyelectrolyte and Its Effect on Paper Properties. BioResources, 2014, 10, .	1.0	1
42	The influence of different shapes and size distributions of coating pigments on packing and dewatering. Journal of Coatings Technology Research, 2020, 17, 1425-1436.	2.5	1
43	Effects of charge density and molecular weight of cationic polyacrylamides on growth and structural characteristics of ground calcium carbonate aggregates. Nordic Pulp and Paper Research Journal, 2016, 31, 191-197.	0.7	1
44	Effects of Preflocculated Filler Flocs and Nano-sized Coating Binder on Fold Cracking of Coated Paper. Palpu Chongi Gisul/Journal of Korea Technical Association of the Pulp and Paper Industry, 2015, 47, 91-97.	0.4	1
45	Influence of pigment and binder composition on the dynamic water penetration and dried structure of precoating layers for double-coated paper. Journal of Coatings Technology Research, 0, , 1.	2.5	1
46	Effect of carboxymethyl cellulose and polyvinyl alcohol on the cracking of particulate coating layers. Progress in Organic Coatings, 2022, 170, 106951.	3.9	1
47	Best pigment coating for a dual-purpose coated paper. Journal of Coatings Technology Research, 2021, 18, 1281-1294.	2.5	0
48	Quantitative analysis of the pigment coating structure influenced by the spreading of latex binder: In situ analysis of correlations between different structural properties. Progress in Organic Coatings, 2022, 165, 106739.	3.9	0