

Hak Lae Lee

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

770
citations

687363

13
h-index

526287

27
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48
all docs

48
docs citations

48
times ranked

838
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative characterization of the spreading and adhesion of styrene-butadiene latex binder in the dried pigment coating layer. <i>Progress in Organic Coatings</i> , 2022, 162, 106555.	3.9	2
2	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. <i>Progress in Organic Coatings</i> , 2022, 163, 106652.	3.9	4
3	Quantitative analysis of the pigment coating structure influenced by the spreading of latex binder: In situ analysis of correlations between different structural properties. <i>Progress in Organic Coatings</i> , 2022, 165, 106739.	3.9	0
4	Effect of carboxymethyl cellulose and polyvinyl alcohol on the cracking of particulate coating layers. <i>Progress in Organic Coatings</i> , 2022, 170, 106951.	3.9	1
5	The Effect of a Polymer-Stabilized Latex Cobinder on the Optical and Strength Properties of Pigment Coating Layers. <i>Polymers</i> , 2021, 13, 568.	4.5	6
6	Incorporation of CNF with Different Charge Property into PVP Hydrogel and Its Characteristics. <i>Nanomaterials</i> , 2021, 11, 426.	4.1	4
7	Comparison of Effects of Sodium Chloride and Potassium Chloride on Spray Drying and Redispersion of Cellulose Nanofibrils Suspension. <i>Nanomaterials</i> , 2021, 11, 439.	4.1	14
8	Use of cellulose nanofibril (CNF)/silver nanoparticles (AgNPs) composite in salt hydrate phase change material for efficient thermal energy storage. <i>International Journal of Biological Macromolecules</i> , 2021, 174, 402-412.	7.5	30
9	Improving the Barrier Properties of Packaging Paper by Polyvinyl Alcohol Based Polymer Coating—Effect of the Base Paper and Nanoclay. <i>Polymers</i> , 2021, 13, 1334.	4.5	38
10	Best pigment coating for a dual-purpose coated paper. <i>Journal of Coatings Technology Research</i> , 2021, 18, 1281-1294.	2.5	0
11	Cellulose nanofibril/carbon nanotube composite foam-stabilized paraffin phase change material for thermal energy storage and conversion. <i>Carbohydrate Polymers</i> , 2021, 273, 118585.	10.2	51
12	Analysis of Spotty Deposits on Fine Paper and Investigation of Key Factors Affecting Alkyl Ketene Dimer Spot Formation. <i>ACS Omega</i> , 2020, 5, 15529-15536.	3.5	2
13	The influence of different shapes and size distributions of coating pigments on packing and dewatering. <i>Journal of Coatings Technology Research</i> , 2020, 17, 1425-1436.	2.5	1
14	UV/Vis Spectrometry-Based Analysis of Alkyl Ketene Dimer (AKD) Retention to Solve the Waxy Spot Problem in the Papermaking Process. <i>ACS Omega</i> , 2020, 5, 11227-11234.	3.5	3
15	Effects of hydroxyethyl methacrylate comonomer in styrene/acrylate latex on coating structure and printability. <i>Progress in Organic Coatings</i> , 2020, 147, 105862.	3.9	13
16	Development and Application of Nanosized Polymer-Stabilized Cobinders and Their Effect on the Viscoelastic Properties and Foaming Tendencies of Coating Colors. <i>ACS Omega</i> , 2020, 5, 9291-9300.	3.5	3
17	Effect of the glass-transition temperature of latexes on drying-stress development of latex films and inkjet coating layers. <i>Nordic Pulp and Paper Research Journal</i> , 2020, 35, 660-669.	0.7	2
18	Structural Changes of the Coating Layer by Styrene/Acrylate Latex with Hydroxyethyl Methacrylate. <i>ACS Omega</i> , 2019, 4, 18405-18412.	3.5	5

#	ARTICLE	IF	CITATIONS
19	Stress Development in a Cellulose-Nanofibril-Containing Pigment Coating Layer during Drying. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18187-18196.	3.7	9
20	Facile fabrication of hydrophobic cellulosic paper with good barrier properties via PVA/AKD dispersion coating. <i>Nordic Pulp and Paper Research Journal</i> , 2019, 34, 516-524.	0.7	20
21	Recycling of isopropanol for cost-effective, environmentally friendly production of carboxymethylated cellulose nanofibrils. <i>Carbohydrate Polymers</i> , 2019, 208, 365-371.	10.2	5
22	Effect of core-shell structure latex on pigment coating properties. <i>BioResources</i> , 2019, 14, 1241-1251.	1.0	6
23	Characterization of Paper Coating Structure Using FIB and FE-SEM. 1. New Method for Image Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 4237-4244.	3.7	9
24	Subnanomolar Sensitivity of Filter Paper-Based SERS Sensor for Pesticide Detection by Hydrophobicity Change of Paper Surface. <i>ACS Sensors</i> , 2018, 3, 151-159.	7.8	165
25	Cellulose nanofibrils coated paper substrate to detect trace molecules using surface-enhanced Raman scattering. <i>Cellulose</i> , 2018, 25, 3339-3350.	4.9	22
26	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. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 16718-16726.	3.7	9
27	Optimization of carboxymethylation reaction as a pretreatment for production of cellulose nanofibrils. <i>Cellulose</i> , 2018, 25, 3873-3883.	4.9	51
28	Morphological characteristics of carboxymethylated cellulose nanofibrils: the effect of carboxyl content. <i>Cellulose</i> , 2018, 25, 5781-5789.	4.9	13
29	Preparation of surface-charged CNF aerogels and investigation of their ion adsorption properties. <i>Cellulose</i> , 2017, 24, 2895-2902.	4.9	13
30	Role of Cellulose Nanofibrils in Structure Formation of Pigment Coating Layers. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 9569-9577.	3.7	25
31	Effects of Fractionation and Mechanical Treatments of Korean OCC on Paper Properties. <i>Nordic Pulp and Paper Research Journal</i> , 2017, 32, 148-154.	0.7	4
32	Effects of coating composition and folding direction on the fold cracking of coated paper. <i>Nordic Pulp and Paper Research Journal</i> , 2016, 31, 347-353.	0.7	15
33	Effects of charge density and molecular weight of cationic polyacrylamides on growth and structural characteristics of ground calcium carbonate aggregates. <i>Nordic Pulp and Paper Research Journal</i> , 2016, 31, 191-197.	0.7	1
34	Effect of coating binder on fold cracking of coated paper. <i>Nordic Pulp and Paper Research Journal</i> , 2015, 30, 361-368.	0.7	14
35	Preparation of cross-linked cellulose nanofibril aerogel with water absorbency and shape recovery. <i>Cellulose</i> , 2015, 22, 3715-3724.	4.9	75
36	Effect of Ground Calcium Carbonate Modified by Washless Multilayering of Polyelectrolytes on Paper Quality. <i>Palpu Chongi Gisul/Journal of Korea Technical Association of the Pulp and Paper Industry</i> , 2015, 47, 115-126.	0.4	3

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37	Effects of Preflocculated Filler Floccs 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
38	Adsorption of Xylan onto Cellulose Fibers Pretreated with Cationic Polyelectrolyte and Its Effect on Paper Properties. BioResources, 2014, 10, .	1.0	1
39	Evaluation of the flocculation phenomena of GCC by polymeric retention systems. Nordic Pulp and Paper Research Journal, 2014, 29, 418-424.	0.7	2
40	Adsorption and viscoelastic properties of cationic xylan on cellulose film using QCM-D. Cellulose, 2014, 21, 1251-1260.	4.9	13
41	Deposition Behavior of LbL Multilayered GCC Particles on Pulp Fibers. BioResources, 2013, 8, .	1.0	6
42	Structure characterization of ground calcium carbonate floccs by fractal analysis and their effects on handsheet properties. Tappi Journal, 2013, 12, 17-23.	0.5	7
43	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
44	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
45	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
46	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
47	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
48	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