Lars JÃ¤rnstrÃ¶m

List of Publications by Year
in descending order

59 papers	1,303 citations	404762 18 h-index	356229 35 g-index
59 all docs	59 docs citations	59 times ranked	1593 citing authors

#	Article	IF	Citations
1	Molecular structure of citric acid cross-linked starch films. Carbohydrate Polymers, 2013, 96, 270-276.	10.5	175
2	Barrier and surface properties of chitosan-coated greaseproof paper. Carbohydrate Polymers, 2006, 65, 453-460.	10.5	156
3	Influence of citric acid and curing on moisture sorption, diffusion and permeability of starch films. Carbohydrate Polymers, 2013, 94, 765-772.	10.5	116
4	The effect of pH on hydrolysis, cross-linking and barrier properties of starch barriers containing citric acid. Carbohydrate Polymers, 2013, 98, 1505-1513.	10.5	105
5	Comparison of lignin derivatives as substrates for laccase-catalyzed scavenging of oxygen in coatings and films. Journal of Biological Engineering, 2014, 8, 1.	4.8	63
6	Barrier and mechanical properties of modified starches. Cellulose, 2005, 12, 423-433.	5.1	49
7	Adsorption of polyacrylate and carboxy methyl cellulose on kaolinite: Salt effects and competitive adsorption. Colloids and Surfaces, 1990, 50, 47-73.	0.9	45
8	Barrier properties and heat sealability/failure mechanisms of dispersion-coated paperboard. Packaging Technology and Science, 2002, 15, 209-224.	2.9	40
9	Effects of film forming and hydrophobic properties of starches on surface sized packaging paper. Packaging Technology and Science, 2008, 21, 123-135.	2.9	40
10	Preparation and incorporation of microcapsules in functional coatings for selfâ€healing of packaging board. Packaging Technology and Science, 2009, 22, 275-291.	2.9	37
11	Oxygen-scavenging coatings and films based on lignosulfonates and laccase. Journal of Biotechnology, 2012, 161, 14-18.	3.9	37
12	Oxygen and water vapor transmission rates of starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper. Progress in Organic Coatings, 2017, 113, 218-224.	4.1	33
13	Characterization of poly(3,4-ethylenedioxythiophene)/poly(styrene sulfonate) (PEDOT:PSS) adsorption on cellulosic materials. Cellulose, 2009, 16, 807-815.	5.1	32
14	The influence of moisture content on the polymer structure of polyvinyl alcohol in dispersion barrier coatings and its effect on the mass transport of oxygen. Journal of Coatings Technology Research, 2017, 14, 1345-1355.	2.5	32
15	Aggregation in concentrated kaolin suspensions stabilized by polyacrylate. Colloids and Surfaces, 1990, 51, 219-238.	0.9	20
16	Co-immobilization of oxalate oxidase and catalase in films for scavenging of oxygen or oxalic acid. Biochemical Engineering Journal, 2013, 72, 96-101.	3.8	20
17	Film formation and barrier performance of latex based coating: Impact of drying temperature in a flexographic process. Progress in Organic Coatings, 2019, 129, 43-51.	4.1	19
18	Evaluation of the Potential of Fungal and Plant Laccases for Active-Packaging Applications. Journal of Agricultural and Food Chemistry, 2011, 59, 5390-5395.	5.3	18

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19	Lignin-containing coatings for packaging materials. Nordic Pulp and Paper Research Journal, 2018, 33, 548-556.	0.7	17
20	Montmorillonite for starch-based barrier dispersion coating â€" Part 1: The influence of citric acid and poly(ethylene glycol) on viscosity and barrier properties. Applied Clay Science, 2014, 97-98, 160-166.	5.4	16
21	Coating: Oxygen scavenging enzymes in coatings â€" Effect of coating procedures on enzyme activity. Nordic Pulp and Paper Research Journal, 2011, 26, 197-204.	0.7	14
22	Electroconductive paper prepared by coating with blends of poly(3,4â€ethylenedioxythiophene)/poly(4â€styrenesulfonate) and organic solvents. Journal of Applied Polymer Science, 2010, 117, 3524-3532.	2.7	13
23	Montmorillonite for starch-based barrier dispersion coating â€" Part 2: Pilot trials and PE-lamination. Applied Clay Science, 2014, 97-98, 167-173.	5.4	13
24	Physical and Swelling Properties of Spray-Dried Powders made from Starch and Poly(vinyl alcohol). Starch/Staerke, 2006, 58, 632-641.	2.2	11
25	Study of starch and starch-PVOH blends and effects of plasticizers on mechanical and barrier properties of coated paperboard. Nordic Pulp and Paper Research Journal, 2016, 31, 499-510.	0.7	10
26	Starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper and their effects of phase interactions. Progress in Organic Coatings, 2017, 111, 13-22.	4.1	10
27	Phase and Gelation Behavior of 2-Hydroxy-3-(N,N-dimethyl-N-dodecylammonium)propyloxy Starches. Starch/Staerke, 2003, 55, 569-575.	2.2	9
28	The Interaction Between Surfactants and 2-Hydroxy-3-(N,N-dimethyl-N-dodecylammonium)-propyloxy Starches. Starch/Staerke, 2006, 58, 561-571.	2.2	9
29	Adsorption of anionic and cationic polymers on porous and non-porous calcium carbonate surfaces. Applied Surface Science, 1994, 75, 197-203.	6.3	8
30	The Influence of Thickener Addition on Filter Cake Formation During Dewatering of Mineral Suspensions. Applied Rheology, 2003, 13, 125-131.	5.2	8
31	Control of aroma permeability in latex coatings by altering the vinyl acid content and the temperature around Tg. Polymer Testing, 2007, 26, 916-926.	5.0	8
32	Extruded polymer films for optimal enzyme-catalyzed oxygen scavenging. Chemical Engineering Science, 2014, 108, 1-8.	4.0	8
33	Temperature effect on the complex formation between Pluronic F127 and starch. Carbohydrate Polymers, 2017, 166, 264-270.	10.5	8
34	Influence of kaolin addition on the dynamics of oxygen mass transport in polyvinyl alcohol dispersion coatings. Nordic Pulp and Paper Research Journal, 2015, 30, 385-392.	0.7	7
35	Thermosensitive silica-pluronic-starch model coating dispersion-part I: The effect of Pluronic block copolymer adsorption on the colloidal stability and rheology. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 245-253.	4.8	7
36	Effects on Oxygenâ€barrier Properties of Pretreating Paperboard with a Starchâ€"Poly(Vinyl Alcohol) Blend before Polyethylene Extrusion. Packaging Technology and Science, 2017, 30, 399-410.	2.9	7

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37	Modeling of oxygen permeation through filled polymeric layers for barrier coatings. Journal of Applied Polymer Science, 2017, 134, .	2.7	7
38	Effects of carboxylation of latex on polymer interdiffusion and water vapor permeability of latex films. Nordic Pulp and Paper Research Journal, 2002, 17, 20-28.	0.7	7
39	Composition and Film Properties of Temperature Responsive, Hydrophobically Modified Potato Starch. Starch/Staerke, 2008, 60, 539-550.	2.2	6
40	Structural, microrheological and kinetic properties of a ternary silica-Pluronic F127-starch thermosensitive system. Journal of Colloid and Interface Science, 2018, 514, 459-467.	9.6	6
41	Influence of the functionalization pattern of ethyl cellulose on the interactions with polystyrene latex particles in aqueous mixtures. Journal of Colloid and Interface Science, 2008, 327, 51-57.	9.6	5
42	Latex-based barrier dispersion coating on linerboard: Flexographic multilayering versus single step conventional coating technology. Nordic Pulp and Paper Research Journal, 2015, 30, 350-360.	0.7	5
43	Latex diffusion at high volume fractions studied by fluorescence microscopy. Journal of Colloid and Interface Science, 2006, 298, 162-171.	9.6	4
44	Conductivity of paper containing poly(3,4â€ethylenedioxythiophene)/poly(4â€styrenesulfonate) and multiwall carbon nanotubes. Journal of Applied Polymer Science, 2012, 125, E34.	2.7	4
45	Crack analysis of barrier coatings based on starch and starch-PVOH with and without plasticizer. Nordic Pulp and Paper Research Journal, 2018, 33, 336-347.	0.7	4
46	Influence of latex surface properties on interactions with starch and carboxymethyl cellulose in coating colours. Nordic Pulp and Paper Research Journal, 2000, 15, 431-439.	0.7	4
47	Paper Physics: Electroconductive paper â€“ a study of polymer deposition and conductivity influenced by sheet forming and fibre beating. Nordic Pulp and Paper Research Journal, 2010, 25, 473-480.	0.7	4
48	Thermosensitive Silica-Pluronic-Starch model coating dispersion-Part II: The relationship between rheology and microstructure. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 509, 415-426.	4.8	3
49	Lignin-Containing Coatings for Packaging Materialsâ€"Pilot Trials. Polymers, 2021, 13, 1595.	4.6	3
50	Porous mineral particles as coating pigments. Nordic Pulp and Paper Research Journal, 2000, 15, 88-97.	0.7	3
51	Barrier and film properties of plastisol coatings, a water free coating application based on mixtures of starch, poly(vinyl alcohol) and poly(alkyl methacrylate). Nordic Pulp and Paper Research Journal, 2006, 21, 690-696.	0.7	3
52	Coating: Porosity variations in coating layers â€“ impact on backtrap mottle. Nordic Pulp and Paper Research Journal, 2013, 28, 257-263.	0.7	3
53	Surface Analyses of Thin Multiple Layer Barrier Coatings of Poly(vinyl alcohol) for Paperboard. Coatings, 2023, 13, 1489.	2.7	3
54	The influence of thickeners on the surface structure of coatings evaluated by AFM and pair distribution function analysis. Nordic Pulp and Paper Research Journal, 2005, 20, 481-489.	0.7	2

#	Article	IF	Citations
55	The influence of thickeners on the rheological properties of PCC suspensions and on the surface structure of PCC-based layers. Nordic Pulp and Paper Research Journal, 2007, 22, 102-110.	0.7	2
56	Fractionated Lignosulfonates for Laccase-Catalyzed Oxygen-Scavenging Films and Coatings. Molecules, 2021, 26, 6322.	3.9	2
57	Numerical Modeling of a Short-Dwell Coater for Bio-Based Coating Applications. Coatings, 2021, 11, 13.	2.7	2
58	The reduction of sulphide and oxide compounds on high speed steel powder in a hydrogen gas stream. Materials Science and Engineering, 1980, 42, 353-359.	0.1	1
59	Active product packaging flavour interaction. Developments in Food Science, 2006, 43, 445-448.	0.0	0