Wolfgang Bauer

List of Publications by Year
in descending order

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58	903	516561 16	552653 26
papers	citations	h-index	g-index

59	59	59	946
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanistic investigation of the effect of endoglucanases related to pulp refining. Cellulose, 2022, 29, 2579-2598.	2.4	8
2	Evaluation of fines separation from unbleached softwood kraft pulp using microperforated hole screens. Nordic Pulp and Paper Research Journal, 2022, 37, 1-13.	0.3	1
3	Towards a better understanding of synergistic enzyme effects during refining of cellulose fibers. Carbohydrate Polymer Technologies and Applications, 2022, 4, 100223.	1.6	5
4	How cellulose nanofibrils and cellulose microparticles impact paper strengthâ€”A visualization approach. Carbohydrate Polymers, 2021, 254, 117406.	5.1	12
5	Biorefining: the role of endoglucanases in refining of cellulose fibers. Cellulose, 2021, 28, 7633-7650.	2.4	9
6	Reinforcement effect of pulp fines and microfibrillated cellulose in highly densified binderless paperboards. Journal of Cleaner Production, 2021, 281, 125258.	4.6	19
7	Comparison of the Functional Barrier Properties of Chitosan Acetate Films with Conventionally Applied Polymers. Molecules, 2020, 25, 3491.	1.7	4
8	Nanocellulose from fractionated sulfite wood pulp. Cellulose, 2020, 27, 9325-9336.	2.4	8
9	Softwood kraft pulp fines: application and impact on specific refining energy and strength properties. Cellulose, 2020, 27, 10359-10367.	2.4	3
10	Investigation of the Adsorption Behavior of Jet-Cooked Cationic Starches on Pulp Fibers. Polymers, 2020, 12, 2249.	2.0	4
11	Effects of enzymes on the refining of different pulps. Journal of Biotechnology, 2020, 320, 1-10.	1.9	8
12	Cationic starches in paper-based applicationsâ€”A review on analytical methods. Carbohydrate Polymers, 2020, 235, 115964.	5.1	17
13	Willow Bark for Sustainable Energy Storage Systems. Materials, 2020, 13, 1016.	1.3	9
14	Affinity of Serum Albumin and Fibrinogen to Cellulose, Its Hydrophobic Derivatives and Blends. Frontiers in Chemistry, 2019, 7, 581.	1.8	7
15	Theory and practice of European co-operative education and training for the support of energy transition. Energy, Sustainability and Society, 2019, 9, .	1.7	4
16	Localization of cellulosic fines in paper via fluorescent labeling. Cellulose, 2019, 26, 6933-6942.	2.4	9
17	Cobalt Ferrite Nanoparticles for Three-Dimensional Visualization of Micro- and Nanostructured Cellulose in Paper. ACS Applied Nano Materials, 2019, 2, 3864-3869.	2.4	5
18	Characterization of natural polymers as functional barriers for cellulose-based packaging materials. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2019, 36, 976-988.	1.1	17

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19	Fine Cellulosic Materials Produced from Chemical Pulp: the Combined Effect of Morphology and Rate of Addition on Paper Properties. Nanomaterials, 2019, 9, 321.	1.9	9
20	A continuum micromechanics approach to the elasticity and strength of planar fiber networks: Theory and application to paper sheets. European Journal of Mechanics, A/Solids, 2019, 75, 516-531.	2.1	7
21	Laccase modified lignosulfonates as novel binder in pigment based paper coating formulations. Reactive and Functional Polymers, 2018, 123, 20-25.	2.0	30
22	Technical Lignins and Their Utilization in the Surface Sizing of Paperboard. Industrial & Engineering Chemistry Research, 2018, 57, 6284-6291.	1.8	15
23	Influence of relative humidity on the strength of hardwood and softwood pulp fibres and fibre to fibre joints. Cellulose, 2018, 25, 2681-2690.	2.4	24
24	Green Procedure to Manufacture Nanoparticle-Decorated Paper Substrates. Materials, 2018, 11, 2412.	1.3	7
25	Application of Industrially Produced Chitosan in the Surface Treatment of Fibre-Based Material: Effect of Drying Method and Number of Coating Layers on Mechanical and Barrier Properties. Polymers, 2018, 10, 1232.	2.0	19
26	Laccase: old enzyme with new applications. New Biotechnology, 2018, 44, S29.	2.4	2
27	Alginate and Chitosan as a Functional Barrier for Paper-Based Packaging Materials. Coatings, 2018, 8, 235.	1.2	79
28	A novel approach to determining the contribution of the fiber and fines fraction to the water retention value (WRV) of chemical and mechanical pulps. Cellulose, 2017, 24, 3029-3036.	2.4	26
29	Pulp Finesâ€"Characterization, Sheet Formation, and Comparison to Microfibrillated Cellulose. Polymers, 2017, 9, 366.	2.0	43
30	Improved microscopy method for morphological characterisation of pulp fines. Nordic Pulp and Paper Research Journal, 2017, 32, 244-252.	0.3	12
31	The effect of Dean Flow in a tube flow fractionation device. Nordic Pulp and Paper Research Journal, 2016, 31, 641-647.	0.3	3
32	The influence of fibrillation on the oxygen barrier properties of films from microfibrillated cellulose. Nordic Pulp and Paper Research Journal, 2016, 31, 548-560.	0.3	11
33	Morphology and rheology of cellulose nanofibrils derived from mixtures of pulp fibres and papermaking fines. Cellulose, 2016, 23, 2439-2448.	2.4	27
34	Strength of individual hardwood fibres and fibre to fibre joints. Cellulose, 2016, 23, 2049-2060.	2.4	27
35	Influence of Oxygen and Mediators on Laccase-Catalyzed Polymerization of Lignosulfonate. ACS Sustainable Chemistry and Engineering, 2016, 4, 5303-5310.	3.2	55
36	Mechanistic understanding of size-based fiber separation in coiled tubes. International Journal of Multiphase Flow, 2016, 83, 239-253.	1.6	9

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37	Heat of sorption: A comparison between isotherm models and calorimeter measurements of wood pulp. Drying Technology, 2016, 34, 563-573.	1.7	21
38	A new test device to analyse the flow resistance and compressive behaviour of fibre mats. Nordic Pulp and Paper Research Journal, 2016, 31, 634-640.	0.3	0
39	White Water Recirculation Method as a Means to Evaluate the Influence of Fines on the Properties of Handsheets. BioResources, 2015, 10, .	0.5	10
40	Modifying cellulose fibers by adsorption/precipitation of xylan. Cellulose, 2015, 22, 189-201.	2.4	11
41	How xylan effects the breaking load of individual fiberâ€“fiber joints and the single fiber tensile strength. Cellulose, 2015, 22, 849-859.	2.4	11
42	Laccase mediated oxidation of industrial lignins: Is oxygen limiting?. Process Biochemistry, 2015, 50, 1277-1283.	1.8	49
43	Fast evaluation of spatial coating layer formation using ultraviolet scanner imaging. Tappi Journal, 2015, 14, 527-535.	0.2	1
44	A method for preparing extensible paper on the laboratory scale. Nordic Pulp and Paper Research Journal, 2014, 29, 317-321.	0.3	9
45	Imaging of the formerly bonded area of individual fibre to fibre joints with SEM and AFM. Cellulose, 2014, 21, 251-260.	2.4	28
46	Pulp Fiber Bending Stiffness in Wet and Dry State Measured from Moment of Inertia and Modulus of Elasticity. BioResources, 2014, 9, .	0.5	16
47	What holds paper together: Nanometre scale exploration of bonding between paper fibres. Scientific Reports, 2013, 3, 2432.	1.6	59
48	Evaluation of cut quality of woodfree coated papers. Tappi Journal, 2013, 12, 9-15.	0.2	0
49	Testing of individual fiber-fiber joints under biaxial load and simultaneous analysis of deformation. Nordic Pulp and Paper Research Journal, 2012, 27, 237-244.	0.3	30
50	Automated 3D measurement of fiber cross section morphology in handsheets. Nordic Pulp and Paper Research Journal, 2012, 27, 264-269.	0.3	17
51	Automated serial sectioning applied to 3D paper structure analysis. Journal of Microscopy, 2011, 242, 197-205.	0.8	19
52	Revisiting polarized light microscopy for fiber-fiber bond area measurement - Part I: Theoretical fundamentals. Nordic Pulp and Paper Research Journal, 2010, 25, 65-70.	0.3	12
53	Revisiting polarized light microscopy for fiber-fiber bond area measurement - Part II: Proving the applicability. Nordic Pulp and Paper Research Journal, 2010, 25, 71-75.	0.3	13
54	Detecting Paper Fibre Cross Sections in Microtomy Images. , 2010, , .		2

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55	Calendering Effects on Coating Pore Structure and Ink Setting Behavior. Tappi Journal, 2010, 9, 27-35.	0.2	13
56	A novel approach to quantify spatial coating-layer formation. Tappi Journal, 2010, 9, 7-13.	0.2	2
57	Paper physics. Nordic Pulp and Paper Research Journal, 2009, 24, 199-205.	0.3	20
58	Registration and point wise correlation of local paper properties. Nordic Pulp and Paper Research Journal, 2008, 23, 374-381.	0.3	6