

Eero Kontturi

List of Publications by Year in descending order

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129
papers

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citations

71102

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all docs

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docs citations

134
times ranked

5852
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced Materials through Assembly of Nanocelluloses. <i>Advanced Materials</i> , 2018, 30, e1703779.	21.0	493
2	Healable, Stable and Stiff Hydrogels: Combining Conflicting Properties Using Dynamic and Selective Three-Component Recognition with Reinforcing Cellulose Nanorods. <i>Advanced Functional Materials</i> , 2014, 24, 2706-2713.	14.9	227
3	Cellulose "model films and the fundamental approach. <i>Chemical Society Reviews</i> , 2006, 35, 1287-1304.	38.1	213
4	SEM imaging of chiral nematic films cast from cellulose nanocrystal suspensions. <i>Cellulose</i> , 2012, 19, 1599-1605.	4.9	212
5	Nanocellulose: Recent Fundamental Advances and Emerging Biological and Biomimicking Applications. <i>Advanced Materials</i> , 2021, 33, e2004349.	21.0	212
6	Cellulose Model Surfaces Simplified Preparation by Spin Coating and Characterization by X-ray Photoelectron Spectroscopy, Infrared Spectroscopy, and Atomic Force Microscopy. <i>Langmuir</i> , 2003, 19, 5735-5741.	3.5	176
7	Thermoresponsive Nanocellulose Hydrogels with Tunable Mechanical Properties. <i>ACS Macro Letters</i> , 2014, 3, 266-270.	4.8	163
8	Polyelectrolyte Brushes Grafted from Cellulose Nanocrystals Using Cu-Mediated Surface-Initiated Controlled Radical Polymerization. <i>Biomacromolecules</i> , 2011, 12, 2997-3006.	5.4	155
9	Phase behaviour and droplet size of oil-in-water Pickering emulsions stabilised with plant-derived nanocellulosic materials. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 519, 60-70.	4.7	143
10	Degradation and Crystallization of Cellulose in Hydrogen Chloride Vapor for High-Yield Isolation of Cellulose Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14455-14458.	13.8	123
11	Generic Method for Modular Surface Modification of Cellulosic Materials in Aqueous Medium by Sequential "Click" Reaction and Adsorption. <i>Biomacromolecules</i> , 2012, 13, 736-742.	5.4	116
12	Chiral Plasmonics Using Twisting along Cellulose Nanocrystals as a Template for Gold Nanoparticles. <i>Advanced Materials</i> , 2016, 28, 5262-5267.	21.0	105
13	Strong and Stiff: High-Performance Cellulose Nanocrystal/Poly(vinyl alcohol) Composite Fibers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31500-31504.	8.0	101
14	Transition to Reinforced State by Percolating Domains of Intercalated Brush-Modified Cellulose Nanocrystals and Poly(butadiene) in Cross-Linked Composites Based on Thiol-ene Click Chemistry. <i>Biomacromolecules</i> , 2013, 14, 1547-1554.	5.4	96
15	Amorphous Characteristics of an Ultrathin Cellulose Film. <i>Biomacromolecules</i> , 2011, 12, 770-777.	5.4	92
16	Cationic polymer brush-modified cellulose nanocrystals for high-affinity virus binding. <i>Nanoscale</i> , 2014, 6, 11871-11881.	5.6	92
17	Chitin Nanopaper from Mushroom Extract: Natural Composite of Nanofibers and Glucan from a Single Biobased Source. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6492-6496.	6.7	90
18	PROPOSED NANO-SCALE COALESCENCE OF CELLULOSE IN CHEMICAL PULP FIBERS DURING TECHNICAL TREATMENTS. <i>BioResources</i> , 2012, 7, .	1.0	86

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19	Chemical Modification of Reducing End Groups in Cellulose Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 66-87.	13.8	83
20	Genotoxic and immunotoxic effects of cellulose nanocrystals in vitro. <i>Environmental and Molecular Mutagenesis</i> , 2015, 56, 171-182.	2.2	81
21	Novel method for preparing cellulose model surfaces by spin coating. <i>Polymer</i> , 2003, 44, 3621-3625.	3.8	79
22	Water Vapor Uptake of Ultrathin Films of Biologically Derived Nanocrystals: Quantitative Assessment with Quartz Crystal Microbalance and Spectroscopic Ellipsometry. <i>Langmuir</i> , 2015, 31, 12170-12176.	3.5	79
23	Indirect evidence of supramolecular changes within cellulose microfibrils of chemical pulp fibers upon drying. <i>Cellulose</i> , 2009, 16, 65-74.	4.9	77
24	Cellulose Nanocrystal Submonolayers by Spin Coating. <i>Langmuir</i> , 2007, 23, 9674-9680.	3.5	76
25	Simultaneous preparation of cellulose nanocrystals and micron-sized porous colloidal particles of cellulose by TEMPO-mediated oxidation. <i>Green Chemistry</i> , 2015, 17, 808-811.	9.0	74
26	Supracolloidal Multivalent Interactions and Wrapping of Dendronized Glycopolymers on Native Cellulose Nanocrystals. <i>Journal of the American Chemical Society</i> , 2014, 136, 866-869.	13.7	72
27	Distribution of lignin and its coniferyl alcohol and coniferyl aldehyde groups in <i>Picea abies</i> and <i>Pinus sylvestris</i> as observed by Raman imaging. <i>Phytochemistry</i> , 2011, 72, 1889-1895.	2.9	71
28	Cross-linking of cellulose and poly(ethylene glycol) with citric acid. <i>Reactive and Functional Polymers</i> , 2015, 90, 21-24.	4.1	70
29	Nanomaterials Derived from Fungal Sources – Is It the New Hype?. <i>Biomacromolecules</i> , 2020, 21, 30-55.	5.4	68
30	Impact of Drying on Wood Ultrastructure Observed by Deuterium Exchange and Photoacoustic FT-IR Spectroscopy. <i>Biomacromolecules</i> , 2010, 11, 515-520.	5.4	65
31	Impact of Drying on Wood Ultrastructure: Similarities in Cell Wall Alteration between Native Wood and Isolated Wood-Based Fibers. <i>Biomacromolecules</i> , 2010, 11, 2161-2168.	5.4	62
32	Interfacial Mechanisms of Water Vapor Sorption into Cellulose Nanofibril Films as Revealed by Quantitative Models. <i>Biomacromolecules</i> , 2017, 18, 2951-2958.	5.4	55
33	Specific water uptake of thin films from nanofibrillar cellulose. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13655.	10.3	53
34	TEMPO-mediated oxidation of microcrystalline cellulose: limiting factors for cellulose nanocrystal yield. <i>Cellulose</i> , 2017, 24, 1657-1667.	4.9	53
35	Cellulose nanocrystals by acid vapour: towards more effortless isolation of cellulose nanocrystals. <i>Faraday Discussions</i> , 2017, 202, 315-330.	3.2	51
36	Waste-Derived Low-Cost Mycelium Nanopapers with Tunable Mechanical and Surface Properties. <i>Biomacromolecules</i> , 2019, 20, 3513-3523.	5.4	51

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37	Molecular Engineering of Fracture Energy Dissipating Sacrificial Bonds Into Cellulose Nanocrystal Nanocomposites. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5049-5053.	13.8	49
38	Ultrathin Films of Cellulose: A Materials Perspective. <i>Frontiers in Chemistry</i> , 2019, 7, 488.	3.6	48
39	Quantitative Assessment of the Enzymatic Degradation of Amorphous Cellulose by Using a Quartz Crystal Microbalance with Dissipation Monitoring. <i>Langmuir</i> , 2011, 27, 8819-8828.	3.5	47
40	Direct Interfacial Modification of Nanocellulose Films for Thermoresponsive Membrane Templates. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2923-2927.	8.0	47
41	A method for the heterogeneous modification of nanofibrillar cellulose in aqueous media. <i>Carbohydrate Polymers</i> , 2014, 100, 107-115.	10.2	43
42	Noncovalent Surface Modification of Cellulose Nanopapers by Adsorption of Polymers from Aprotic Solvents. <i>Langmuir</i> , 2017, 33, 5707-5712.	3.5	43
43	Mimicking the Humidity Response of the Plant Cell Wall by Using Two-Dimensional Systems: The Critical Role of Amorphous and Crystalline Polysaccharides. <i>Langmuir</i> , 2016, 32, 2032-2040.	3.5	42
44	Accessibility of cellulose: Structural changes and their reversibility in aqueous media. <i>Carbohydrate Polymers</i> , 2013, 93, 424-429.	10.2	40
45	Surface-Sensitive Approach to Interpreting Supramolecular Rearrangements in Cellulose by Synchrotron Grazing Incidence Small-Angle X-ray Scattering. <i>ACS Macro Letters</i> , 2015, 4, 713-716.	4.8	38
46	Following the Kinetics of a Chemical Reaction in Ultrathin Supported Polymer Films by Reliable Mass Density Determination with X-ray Reflectivity. <i>Journal of the American Chemical Society</i> , 2010, 132, 3678-3679.	13.7	36
47	Mushroom-derived chitosan-glucan nanopaper filters for the treatment of water. <i>Reactive and Functional Polymers</i> , 2020, 146, 104428.	4.1	35
48	Visualizing Degradation of Cellulose Nanofibers by Acid Hydrolysis. <i>Biomacromolecules</i> , 2021, 22, 1399-1405.	5.4	31
49	Introducing open films of nanosized cellulose—atomic force microscopy and quantification of morphology. <i>Polymer</i> , 2005, 46, 3307-3317.	3.8	30
50	Processing of Citrus Nanostructured Cellulose: A Rigorous Design—of—Experiment Study of the Hydrothermal Microwave-Assisted Selective Scissoring Process. <i>ChemSusChem</i> , 2018, 11, 1344-1353.	6.8	28
51	Sustainable High Yield Route to Cellulose Nanocrystals from Bacterial Cellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14384-14388.	6.7	28
52	Surface properties of chitin-glucan nanopapers from <i>Agaricus bisporus</i> . <i>International Journal of Biological Macromolecules</i> , 2020, 148, 677-687.	7.5	28
53	Bicomponent fibre mats with adhesive ultra-hydrophobicity tailored with cellulose derivatives. <i>Journal of Materials Chemistry</i> , 2012, 22, 12072.	6.7	27
54	Influence of adsorbed polyelectrolytes on pore size distribution of a water-swollen biomaterial. <i>Soft Matter</i> , 2012, 8, 4740.	2.7	27

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55	All-cellulose multilayers: long nanofibrils assembled with short nanocrystals. <i>Cellulose</i> , 2013, 20, 1777-1789.	4.9	27
56	Noncovalent Dispersion and Functionalization of Cellulose Nanocrystals with Proteins and Polysaccharides. <i>Biomacromolecules</i> , 2016, 17, 1458-1465.	5.4	27
57	Influence of biological origin on the tensile properties of cellulose nanopapers. <i>Cellulose</i> , 2021, 28, 6619.	4.9	27
58	Carboxymethyl cellulose on a fiber substrate: the interactions with cationic polyelectrolytes. <i>Cellulose</i> , 2012, 19, 2217-2231.	4.9	26
59	Plastic to elastic: Fungi-derived composite nanopapers with tunable tensile properties. <i>Composites Science and Technology</i> , 2020, 198, 108327.	7.8	26
60	Biowaste-derived electrode and electrolyte materials for flexible supercapacitors. <i>Chemical Engineering Journal</i> , 2022, 435, 135058.	12.7	25
61	Ultrathin Cellulose Films of Tunable Nanostructured Morphology with a Hydrophobic Component. <i>Biomacromolecules</i> , 2009, 10, 1276-1281.	5.4	24
62	Protein-assisted 2D assembly of gold nanoparticles on a polysaccharide surface. <i>Chemical Communications</i> , 2013, 49, 1318.	4.1	24
63	From vapour to gas: optimising cellulose degradation with gaseous HCl. <i>Reaction Chemistry and Engineering</i> , 2018, 3, 312-318.	3.7	24
64	Cellulose decorated cavities on ultrathin films of PMMA. <i>Soft Matter</i> , 2009, 5, 1786.	2.7	22
65	Optimising CMC sorption in order to improve tensile stiffness of hardwood pulp sheets. <i>Nordic Pulp and Paper Research Journal</i> , 2007, 22, 336-342.	0.7	20
66	Bottom-up Construction of Xylan Nanocrystals in Dimethyl Sulfoxide. <i>Biomacromolecules</i> , 2021, 22, 898-906.	5.4	20
67	Strongly reduced thermal conductivity in hybrid ZnO/nanocellulose thin films. <i>Journal of Materials Science</i> , 2017, 52, 6093-6099.	3.7	19
68	Cellulose carbamate derived cellulose thin films: preparation, characterization and blending with cellulose xanthate. <i>Cellulose</i> , 2019, 26, 7399-7410.	4.9	19
69	Knoevenagel Condensation for Modifying the Reducing End Groups of Cellulose Nanocrystals. <i>ACS Macro Letters</i> , 2019, 8, 1642-1647.	4.8	19
70	Effects of commercial cellobiohydrolase treatment on fiber strength and morphology of bleached hardwood pulp 10 th EWLP, Stockholm, Sweden, August 25 th -28, 2008. <i>Holzforschung</i> , 2009, 63, 731-736.	1.9	18
71	Carboxymethyl Cellulose Treatment As a Method to Inhibit Vessel Picking Tendency in Printing of Eucalyptus Pulp Sheets. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 1887-1892.	3.7	18
72	Entangled and colloidally stable microcrystalline cellulose matrices in controlled drug release. <i>International Journal of Pharmaceutics</i> , 2018, 548, 113-119.	5.2	18

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73	Recovery of Gold from Chloride Solution by TEMPO-Oxidized Cellulose Nanofiber Adsorbent. Sustainability, 2019, 11, 1406.	3.2	17
74	Trimethylsilylcellulose/Polystyrene Blends as a Means To Construct Cellulose Domains on Cellulose. Macromolecules, 2005, 38, 10712-10720.	4.8	16
75	Phase-specific pore growth in ultrathin bicomponent films from cellulose-based polysaccharides. Soft Matter, 2011, 7, 10386.	2.7	16
76	Surface-Induced Frustration in Solid State Polymorphic Transition of Native Cellulose Nanocrystals. Biomacromolecules, 2017, 18, 1975-1982.	5.4	16
77	Nanocellulose-based mechanically stable immobilization matrix for enhanced ethylene production: a framework for photosynthetic solid-state cell factories. Green Chemistry, 2021, 23, 3715-3724.	9.0	15
78	Thickness Dependence of Reflection- \rightarrow Absorption Infrared Spectra of Supported Thin Polymer Films. Macromolecules, 2011, 44, 1775-1778.	4.8	14
79	Structural Order in Cellulose Thin Films Prepared from a Trimethylsilyl Precursor. Biomacromolecules, 2020, 21, 653-659.	5.4	14
80	Challenges in Synthesis and Analysis of Asymmetrically Grafted Cellulose Nanocrystals via Atom Transfer Radical Polymerization. Biomacromolecules, 2021, 22, 2702-2717.	5.4	14
81	Morphology of poly(methyl methacrylate) and polystyrene blends upon Langmuir-Schaefer deposition. Soft Matter, 2011, 7, 743-748.	2.7	12
82	Structural distinction due to deposition method in ultrathin films of cellulose nanofibres. Cellulose, 2018, 25, 1715-1724.	4.9	12
83	Cationic cellulose nanocrystals for fast, efficient and selective heparin recovery. Chemical Engineering Journal, 2021, 420, 129811.	12.7	12
84	Excellence in Excrements: Upcycling of Herbivore Manure into Nanocellulose and Biogas. ACS Sustainable Chemistry and Engineering, 2021, 9, 15506-15513.	6.7	12
85	Ultrastructural evaluation of compression wood-like properties of common juniper (Juniperus) Tj ETQq1 1 0.784314 1.9 BT / Overlock 10	1.9	11
86	The unusual interactions between polymer grafted cellulose nanocrystal aggregates. Soft Matter, 2013, 9, 8965.	2.7	11
87	Dissolution Control of Mg by Cellulose Acetate-Polyelectrolyte Membranes. ACS Applied Materials & Interfaces, 2014, 6, 22393-22399.	8.0	11
88	Parameters affecting monolayer organisation of substituted polysaccharides on solid substrates upon Langmuir-Schaefer deposition. Reactive and Functional Polymers, 2016, 99, 100-106.	4.1	11
89	Impact of hydrothermal and alkaline treatments of birch kraft pulp on the levelling-off degree of polymerization (LODP) of cellulose microfibrils. Cellulose, 2018, 25, 6811-6818.	4.9	11
90	Tuning the Porosity, Water Interaction, and Redispersion of Nanocellulose Hydrogels by Osmotic Dehydration. ACS Applied Polymer Materials, 2022, 4, 24-28.	4.4	11

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91	Arrangements of cationic starch of varying hydrophobicity on hydrophilic and hydrophobic surfaces. <i>Journal of Colloid and Interface Science</i> , 2009, 336, 21-29.	9.4	10
92	A Systematic Study of Noncross-linking Wet Strength Agents. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 12010-12017.	3.7	10
93	Tuning the Physicochemical Properties of Cellulose Nanocrystals through an In Situ Oligosaccharide Surface Modification Method. <i>Biomacromolecules</i> , 2021, 22, 3284-3296.	5.4	10
94	Controlled Hydrophobic Functionalization of Natural Fibers through Self-Assembly of Amphiphilic Diblock Copolymer Micelles. <i>ChemSusChem</i> , 2013, 6, 1203-1208.	6.8	9
95	Colorimetric Behavior and Seasonal Characteristic of Xylem Sap Obtained by Mechanical Compression from Silver Birch (<i>Betula pendula</i>). <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1075-1082.	6.7	9
96	2D dendritic fractal patterns from an amphiphilic polysaccharide. <i>Soft Matter</i> , 2014, 10, 1801.	2.7	9
97	The Effect of Hydrothermal Treatment on the Color Stability and Chemical Properties of Birch Veneer Surfaces. <i>BioResources</i> , 2015, 10, 6610-6623.	1.0	9
98	Humidity Response of Cellulose Thin Films. <i>Biomacromolecules</i> , 2022, 23, 1148-1157.	5.4	9
99	Accessibility of Cell Wall Lignin in Solvent Extraction of Ultrathin Spruce Wood Sections. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 804-808.	6.7	8
100	The Effect of Polymorphism on the Kinetics of Adsorption and Degradation: A Case of Hydrogen Chloride Vapor on Cellulose. <i>Advanced Sustainable Systems</i> , 2018, 2, 1800026.	5.3	8
101	Directed Assembly of Cellulose Nanocrystals in Their Native Solid-State Template of a Processed Fiber Cell Wall. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100092.	3.9	8
102	Chemical characteristics of squeezable sap of hydrothermally treated silver birch logs (<i>Betula</i>). <i>Wood Science and Technology</i> , 2015, 49, 289-302.	3.2	7
103	Influence of the quality of microcrystalline cellulose on the outcome of TEMPO-mediated oxidation. <i>Cellulose</i> , 2017, 24, 5697-5704.	4.9	7
104	Fibre surface and strength of a fibre network. <i>Holzforschung</i> , 2006, 60, 691-693.	1.9	5
105	Cellulose-Nanokristalle in hoher Ausbeute durch Abbau und Kristallisation von Cellulose mittels gasförmigem Chlorwasserstoff. <i>Angewandte Chemie</i> , 2016, 128, 14671-14674.	2.0	5
106	Native Structure of the Plant Cell Wall Utilized for Top-Down Assembly of Aligned Cellulose Nanocrystals into Micrometer-Sized Nanoporous Particles. <i>Macromolecular Rapid Communications</i> , 2020, 41, 2000201.	3.9	5
107	Surface hydrophobization of pulp fibers in paper sheets via gas phase reactions. <i>International Journal of Biological Macromolecules</i> , 2021, 180, 80-87.	7.5	5
108	Solid-state polymer adsorption for surface modification: The role of molecular weight. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 441-450.	9.4	5

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109	Assessing Fire Damage in Historical Papers and Alleviating Damage with Soft Cellulose Nanofibers. <i>Small</i> , 2022, 18, e2105420.	10.0	5
110	The Impact of Surface Charges of Carboxylated Cellulose Nanofibrils on the Water Motions in Hydrated Films. <i>Biomacromolecules</i> , 2022, 23, 3104-3115.	5.4	5
111	Quantification method for hydrogen peroxide formation during oxygen delignification of kraft pulp. <i>Nordic Pulp and Paper Research Journal</i> , 2005, 20, 490-495.	0.7	4
112	Grow it yourself composites: delignification and hybridisation of lignocellulosic material using animals and fungi. <i>Green Chemistry</i> , 2021, 23, 7506-7514.	9.0	4
113	Creaming Layers of Nanocellulose Stabilized Water-Based Polystyrene: High-Solids Emulsions for 3D Printing. <i>Frontiers in Chemical Engineering</i> , 2021, 3, .	2.7	4
114	Effect of Moisture on Polymer Deconstruction in HCl Gas Hydrolysis of Wood. <i>ACS Omega</i> , 2022, 7, 7074-7083.	3.5	4
115	Manufacturing heat-damaged papers as model materials for evaluating conservation methods. <i>Cellulose</i> , 2022, 29, 6373-6391.	4.9	4
116	Utilizing Polymer Blends to Prepare Ultrathin Films with Diverse Cellulose Textures. <i>Macromolecular Symposia</i> , 2010, 294, 45-50.	0.7	3
117	Thermal Degradation of Cellulose Nanocrystals Deposited on Different Surfaces. <i>Macromolecular Symposia</i> , 2010, 294, 51-57.	0.7	3
118	The chemical characteristics of squeezable sap from silver birch (<i>Betula pendula</i>) logs hydrothermally treated at 70°C: the effect of treatment time on the concentration of water extracts. <i>Wood Science and Technology</i> , 2015, 49, 1295-1306.	3.2	3
119	Bio-based materials: general discussion. <i>Faraday Discussions</i> , 2017, 202, 121-139.	3.2	3
120	Cellulose Model Films: Challenges in Preparation. <i>ACS Symposium Series</i> , 2010, , 57-74.	0.5	2
121	Chemische Modifizierung der reduzierenden Enden von Cellulosenanokristallen. <i>Angewandte Chemie</i> , 2021, 133, 66-88.	2.0	2
122	Study of Transport Properties of Polyelectrolyte-Cellulose Acetate Membranes. <i>ECS Transactions</i> , 2017, 77, 663-669.	0.5	1
123	Nanocellulose-Based Materials in Supramolecular Chemistry. , 2017, , 351-364.		1
124	Differences in residual lignin properties between <i>Betula verrucosa</i> and <i>Eucalyptus urograndis</i> kraft pulps. <i>Biopolymers</i> , 2008, 89, 889-893.	2.4	0
125	Thin Film Deposition Techniques. <i>Materials and Energy</i> , 2014, , 7-18.	0.1	0
126	Conversion technologies: general discussion. <i>Faraday Discussions</i> , 2017, 202, 371-389.	3.2	0

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127	Time-Dependent Behavior of Cation Transport through Cellulose Acetate-Cationic Polyelectrolyte Membranes. Journal of the Electrochemical Society, 2018, 165, H39-H44.	2.9	0
128	Deposition of Ultrathin Cellulose Nanofibers Films As Bio-Implant Corrosion Coatings. ECS Meeting Abstracts, 2017, , .	0.0	0
129	Study of Transport Properties of Polyelectrolyte-Cellulose Acetate Membranes. ECS Meeting Abstracts, 2017, , .	0.0	0