

Justin O Zoppe

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

3,140
citations

331259

21
h-index

288905

40
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44
all docs

44
docs citations

44
times ranked

4466
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Modification of Reducing End Groups in Cellulose Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 66-87.	7.2	83
2	Chemische Modifizierung der reduzierenden Enden von Cellulosenanokristallen. <i>Angewandte Chemie</i> , 2021, 133, 66-88.	1.6	2
3	Mineral-based composition with deliquescent salt as flame retardant for melamine-urea-formaldehyde (MUF)-bonded wood composites. <i>Wood Science and Technology</i> , 2021, 55, 5-32.	1.4	10
4	Cellulose Nanofiber Nanocomposite Pervaporation Membranes for Ethanol Recovery. <i>ACS Applied Nano Materials</i> , 2021, 4, 568-579.	2.4	22
5	Asymmetric water transport in dense leaf cuticles and cuticle-inspired compositionally graded membranes. <i>Nature Communications</i> , 2021, 12, 1267.	5.8	19
6	Challenges in Synthesis and Analysis of Asymmetrically Grafted Cellulose Nanocrystals via Atom Transfer Radical Polymerization. <i>Biomacromolecules</i> , 2021, 22, 2702-2717.	2.6	14
7	Liquid Crystalline Properties of Symmetric and Asymmetric End-Grafted Cellulose Nanocrystals. <i>Biomacromolecules</i> , 2021, 22, 3552-3564.	2.6	10
8	Remote Spatiotemporal Control of a Magnetic and Electroconductive Hydrogel Network via Magnetic Fields for Soft Electronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42486-42501.	4.0	11
9	Patience is a virtue: self-assembly and physico-chemical properties of cellulose nanocrystal allomorphs. <i>Nanoscale</i> , 2020, 12, 17480-17493.	2.8	37
10	Surface Modification of Nanocellulosics and Functionalities. , 2020, , 17-63.		2
11	Effect of functional mineral additive on processability and material properties of wood-fiber reinforced poly(lactic acid) (PLA) composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 132, 105827.	3.8	40
12	One-Component Nanocomposites Based on Polymer-Grafted Cellulose Nanocrystals. <i>Macromolecules</i> , 2020, 53, 821-834.	2.2	26
13	Influence of the Salt Concentration on the Properties of Salt-Free Polyelectrolyte Complex Membranes. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900245.	1.7	9
14	Bio-Inspired, Self-Toughening Polymers Enabled by Plasticizer-Releasing Microcapsules. <i>Advanced Materials</i> , 2019, 31, e1807212.	11.1	19
15	Polymer Composites: Bio-Inspired, Self-Toughening Polymers Enabled by Plasticizer-Releasing Microcapsules (<i>Adv. Mater.</i> 14/2019). <i>Advanced Materials</i> , 2019, 31, 1970103.	11.1	0
16	Stiffness-Changing of Polymer Nanocomposites with Cellulose Nanocrystals and Polymeric Dispersant. <i>Macromolecular Rapid Communications</i> , 2019, 40, 1800910.	2.0	10
17	Recent advances and an industrial perspective of cellulose nanocrystal functionalization through polymer grafting. <i>Current Opinion in Solid State and Materials Science</i> , 2019, 23, 74-91.	5.6	75
18	Functionally Graded Polyurethane/Cellulose Nanocrystal Composites. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700661.	1.7	7

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19	Polymer nanocomposites with cellulose nanocrystals made by co-precipitation. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45648.	1.3	18
20	Thermoresponsive Liquid Crystals: Thermally Switchable Liquid Crystals Based on Cellulose Nanocrystals with Patchy Polymer Grafts (<i>Small</i> 46/2018). <i>Small</i> , 2018, 14, 1870218.	5.2	2
21	11th Young Faculty Meeting, 5th June 2018. <i>Chimia</i> , 2018, 72, 550.	0.3	0
22	Thermally Switchable Liquid Crystals Based on Cellulose Nanocrystals with Patchy Polymer Grafts. <i>Small</i> , 2018, 14, e1802060.	5.2	34
23	Grafting Polymers from Cellulose Nanocrystals: Synthesis, Properties, and Applications. <i>Macromolecules</i> , 2018, 51, 6157-6189.	2.2	175
24	Surface-Initiated Controlled Radical Polymerization: State-of-the-Art, Opportunities, and Challenges in Surface and Interface Engineering with Polymer Brushes. <i>Chemical Reviews</i> , 2017, 117, 1105-1318.	23.0	776
25	Cellulose Nanocrystals with Tethered Polymer Chains: Chemically Patchy versus Uniform Decoration. <i>ACS Macro Letters</i> , 2017, 6, 892-897.	2.3	47
26	Cellulose Nanocrystals: Surface Modification, Applications and Opportunities at Interfaces. <i>Chimia</i> , 2017, 71, 376.	0.3	22
27	Effect of Surface Charge on Surface-Initiated Atom Transfer Radical Polymerization from Cellulose Nanocrystals in Aqueous Media. <i>Biomacromolecules</i> , 2016, 17, 1404-1413.	2.6	37
28	Delignification of Lignocellulosic Biomass and Its Effect on Subsequent Enzymatic Hydrolysis. <i>BioResources</i> , 2015, 10, .	0.5	23
29	Effects of Delignification on Crystalline Cellulose in Lignocellulose Biomass Characterized by Vibrational Sum Frequency Generation Spectroscopy and X-ray Diffraction. <i>Bioenergy Research</i> , 2015, 8, 1750-1758.	2.2	33
30	Manipulation of cellulose nanocrystal surface sulfate groups toward biomimetic nanostructures in aqueous media. <i>Carbohydrate Polymers</i> , 2015, 126, 23-31.	5.1	21
31	Continuous propionic acid production with <i>Propionibacterium acidipropionici</i> immobilized in a novel xylan hydrogel matrix. <i>Bioresource Technology</i> , 2015, 197, 1-6.	4.8	24
32	Synthesis of Cellulose Nanocrystals Carrying Tyrosine Sulfate Mimetic Ligands and Inhibition of Alphavirus Infection. <i>Biomacromolecules</i> , 2014, 15, 1534-1542.	2.6	86
33	Liquid crystalline thermosets based on anisotropic phases of cellulose nanocrystals. <i>Cellulose</i> , 2013, 20, 2569-2582.	2.4	18
34	Pickering emulsions stabilized by cellulose nanocrystals grafted with thermo-responsive polymer brushes. <i>Journal of Colloid and Interface Science</i> , 2012, 369, 202-209.	5.0	315
35	Surface Interaction Forces of Cellulose Nanocrystals Grafted with Thermoresponsive Polymer Brushes. <i>Biomacromolecules</i> , 2011, 12, 2788-2796.	2.6	75
36	Nanofiber Composites of Polyvinyl Alcohol and Cellulose Nanocrystals: Manufacture and Characterization. <i>Biomacromolecules</i> , 2010, 11, 674-681.	2.6	491

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37	Poly(<i>N</i> -isopropylacrylamide) Brushes Grafted from Cellulose Nanocrystals via Surface-Initiated Single-Electron Transfer Living Radical Polymerization. <i>Biomacromolecules</i> , 2010, 11, 2683-2691.	2.6	261
38	Reinforcing Poly(ϵ -caprolactone) Nanofibers with Cellulose Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1996-2004.	4.0	235
39	A variational solution of the time-dependent Schrodinger equation by a restricted superposition of frozen Gaussian wavepackets. <i>Chemical Physics Letters</i> , 2005, 407, 308-314.	1.2	9
40	Evaluating the use of calcium hydrogen phosphate dihydrate as a mineral-based fire retardant for application in melamine-urea-formaldehyde (MUF) bonded wood-based composite materials. <i>Fire and Materials</i> , 0, , .	0.9	4