Justin O Zoppe

List of Publications by Year
in descending order

40 papers	3,140 citations	331259 21 h-index	288905 40 g-index
44 all docs	44 docs citations	44 times ranked	4466 citing authors

#	Article	IF	Citations
1	Surface-Initiated Controlled Radical Polymerization: State-of-the-Art, Opportunities, and Challenges in Surface and Interface Engineering with Polymer Brushes. Chemical Reviews, 2017, 117, 1105-1318.	23.0	776
2	Nanofiber Composites of Polyvinyl Alcohol and Cellulose Nanocrystals: Manufacture and Characterization. Biomacromolecules, 2010, 11, 674-681.	2.6	491
3	Pickering emulsions stabilized by cellulose nanocrystals grafted with thermo-responsive polymer brushes. Journal of Colloid and Interface Science, 2012, 369, 202-209.	5.0	315
4	Poly(<i>N</i>-isopropylacrylamide) Brushes Grafted from Cellulose Nanocrystals via Surface-Initiated Single-Electron Transfer Living Radical Polymerization. Biomacromolecules, 2010, 11, 2683-2691.	2.6	261
5	Reinforcing Poly(Îµ-caprolactone) Nanofibers with Cellulose Nanocrystals. ACS Applied Materials & Interfaces, 2009, 1, 1996-2004.	4.0	235
6	Grafting Polymers <i>from</i> Cellulose Nanocrystals: Synthesis, Properties, and Applications. Macromolecules, 2018, 51, 6157-6189.	2.2	175
7	Synthesis of Cellulose Nanocrystals Carrying Tyrosine Sulfate Mimetic Ligands and Inhibition of Alphavirus Infection. Biomacromolecules, 2014, 15, 1534-1542.	2.6	86
8	Chemical Modification of Reducing Endâ€Groups in Cellulose Nanocrystals. Angewandte Chemie - International Edition, 2021, 60, 66-87.	7.2	83
9	Surface Interaction Forces of Cellulose Nanocrystals Grafted with Thermoresponsive Polymer Brushes. Biomacromolecules, 2011, 12, 2788-2796.	2.6	75
10	Recent advances and an industrial perspective of cellulose nanocrystal functionalization through polymer grafting. Current Opinion in Solid State and Materials Science, 2019, 23, 74-91.	5.6	75
11	Cellulose Nanocrystals with Tethered Polymer Chains: Chemically Patchy versus Uniform Decoration. ACS Macro Letters, 2017, 6, 892-897.	2.3	47
12	Effect of functional mineral additive on processability and material properties of wood-fiber reinforced poly(lactic acid) (PLA) composites. Composites Part A: Applied Science and Manufacturing, 2020, 132, 105827.	3.8	40
13	Effect of Surface Charge on Surface-Initiated Atom Transfer Radical Polymerization from Cellulose Nanocrystals in Aqueous Media. Biomacromolecules, 2016, 17, 1404-1413.	2.6	37
14	Patience is a virtue: self-assembly and physico-chemical properties of cellulose nanocrystal allomorphs. Nanoscale, 2020, 12, 17480-17493.	2.8	37
15	Thermally Switchable Liquid Crystals Based on Cellulose Nanocrystals with Patchy Polymer Grafts. Small, 2018, 14, e1802060.	5.2	34
16	Effects of Delignification on Crystalline Cellulose in Lignocellulose Biomass Characterized by Vibrational Sum Frequency Generation Spectroscopy and X-ray Diffraction. Bioenergy Research, 2015, 8, 1750-1758.	2.2	33
17	One-Component Nanocomposites Based on Polymer-Grafted Cellulose Nanocrystals. Macromolecules, 2020, 53, 821-834.	2.2	26
18	Continuous propionic acid production with Propionibacterium acidipropionici immobilized in a novel xylan hydrogel matrix. Bioresource Technology, 2015, 197, 1-6.	4.8	24

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19	Delignification of Lignocellulosic Biomass and Its Effect on Subsequent Enzymatic Hydrolysis. BioResources, 2015, 10, .	0.5	23
20	Cellulose Nanocrystals: Surface Modification, Applications and Opportunities at Interfaces. Chimia, 2017, 71, 376.	0.3	22
21	Cellulose Nanofiber Nanocomposite Pervaporation Membranes for Ethanol Recovery. ACS Applied Nano Materials, 2021, 4, 568-579.	2.4	22
22	Manipulation of cellulose nanocrystal surface sulfate groups toward biomimetic nanostructures in aqueous media. Carbohydrate Polymers, 2015, 126, 23-31.	5.1	21
23	Bioâ€Inspired, Selfâ€Toughening Polymers Enabled by Plasticizerâ€Releasing Microcapsules. Advanced Materials, 2019, 31, e1807212.	11.1	19
24	Asymmetric water transport in dense leaf cuticles and cuticle-inspired compositionally graded membranes. Nature Communications, 2021, 12, 1267.	5.8	19
25	Liquid crystalline thermosets based on anisotropic phases of cellulose nanocrystals. Cellulose, 2013, 20, 2569-2582.	2.4	18
26	Polymer nanocomposites with cellulose nanocrystals made by coâ€precipitation. Journal of Applied Polymer Science, 2018, 135, 45648.	1.3	18
27	Challenges in Synthesis and Analysis of Asymmetrically Grafted Cellulose Nanocrystals via Atom Transfer Radical Polymerization. Biomacromolecules, 2021, 22, 2702-2717.	2.6	14
28	Remote Spatiotemporal Control of a Magnetic and Electroconductive Hydrogel Network via Magnetic Fields for Soft Electronic Applications. ACS Applied Materials & Interfaces, 2021, 13, 42486-42501.	4.0	11
29	Stiffnessâ€Changing of Polymer Nanocomposites with Cellulose Nanocrystals and Polymeric Dispersant. Macromolecular Rapid Communications, 2019, 40, 1800910.	2.0	10
30	Mineral-based composition with deliquescent salt as flame retardant for melamineâ€"ureaâ€"formaldehyde (MUF)-bonded wood composites. Wood Science and Technology, 2021, 55, 5-32.	1.4	10
31	Liquid Crystalline Properties of Symmetric and Asymmetric End-Grafted Cellulose Nanocrystals. Biomacromolecules, 2021, 22, 3552-3564.	2.6	10
32	A variational solution of the time-dependent Schrodinger equation by a restricted superposition of frozen Gaussian wavepackets. Chemical Physics Letters, 2005, 407, 308-314.	1.2	9
33	Influence of the Salt Concentration on the Properties of Saltâ€Free Polyelectrolyte Complex Membranes. Macromolecular Materials and Engineering, 2019, 304, 1900245.	1.7	9
34	Functionally Graded Polyurethane/Cellulose Nanocrystal Composites. Macromolecular Materials and Engineering, 2018, 303, 1700661.	1.7	7
35	Evaluating the use of calcium hydrogen phosphate dihydrate as a mineralâ€based fire retardant for application in melamineâ€ureaâ€formaldehyde (MUF)â€bonded woodâ€based composite materials. Fire and Materials, 0, , .	0.9	4
36	Thermoresponsive Liquid Crystals: Thermally Switchable Liquid Crystals Based on Cellulose Nanocrystals with Patchy Polymer Grafts (Small 46/2018). Small, 2018, 14, 1870218.	5.2	2

#	Article	IF	Citations
37	Surface Modification of Nanocellulosics and Functionalities. , 2020, , 17-63.		2
38	Chemische Modifizierung der reduzierenden Enden von Cellulosenanokristallen. Angewandte Chemie, 2021, 133, 66-88.	1.6	2
39	11th Young Faculty Meeting, 5th June 2018. Chimia, 2018, 72, 550.	0.3	0
40	Polymer Composites: Bioâ€Inspired, Selfâ€Toughening Polymers Enabled by Plasticizerâ€Releasing Microcapsules (Adv. Mater. 14/2019). Advanced Materials, 2019, 31, 1970103.	11.1	0