Maren Roman

List of Publications by Citations

36 papers	5,685 citations	18 h-index	39 g-index
39 ext. papers	6,150 ext. citations	4.6 avg, IF	5.91 L-index

#	Paper	IF	Citations
36	Review: current international research into cellulose nanofibres and nanocomposites. *Journal of Materials Science*, **2010**, 45, 1-33	4.3	1760
35	Effect of reaction conditions on the properties and behavior of wood cellulose nanocrystal suspensions. *Biomacromolecules*, **2005**, 6, 1048-54	6.9	1182
34	Effect of sulfate groups from sulfuric acid hydrolysis on the thermal degradation behavior of bacterial cellulose. *Biomacromolecules*, **2004**, 5, 1671-7	6.9	926
33	Fluorescently labeled cellulose nanocrystals for bioimaging applications. *Journal of the American Chemical Society*, **2007**, 129, 13810-1	16.4	397
32	Toxicity of Cellulose Nanocrystals: A Review. *Industrial Biotechnology*, **2015**, 11, 25-33	1.3	197
31	Synthesis and cellular uptake of folic acid-conjugated cellulose nanocrystals for cancer targeting. *Biomacromolecules*, **2014**, 15, 1560-7	6.9	186
30	Acid-catalyzed and solvolytic desulfation of H2SO4-hydrolyzed cellulose nanocrystals. *Langmuir*, **2010**, 26, 17919-25	4	179
29	CYTOTOXICITY AND CELLULAR UPTAKE OF CELLULOSE NANOCRYSTALS. *Nano LIFE*, **2012**, 02, 1241006	0.9	141
28	Formation and properties of chitosan-cellulose nanocrystal polyelectrolyte-macroion complexes for drug delivery applications. *Biomacromolecules*, **2011**, 12, 1585-93	6.9	110
27	Parabolic focal conics in self-assembled solid films of cellulose nanocrystals. *Langmuir*, **2005**, 21, 5555-61	4	101
26	Analysis of the sulfuric acid hydrolysis of wood pulp for cellulose nanocrystal production: A central composite design study. *Industrial Crops and Products*, **2016**, 93, 76-87	5.9	72
25	Equilibrium water contents of cellulose films determined via solvent exchange and quartz crystal microbalance with dissipation monitoring. *Biomacromolecules*, **2011**, 12, 2881-7	6.9	66
24	Ultrathin chitin films for nanocomposites and biosensors. *Biomacromolecules*, **2012**, 13, 714-8	6.9	48
23	Effects of pH and salt concentration on the formation and properties of chitosan-cellulose nanocrystal polyelectrolyte-macroion complexes. *Biomacromolecules*, **2011**, 12, 3708-14	6.9	45
22	Cellulose Nanocrystals for Drug Delivery. *ACS Symposium Series*, **2010**, 81-91	0.4	38
21	Effects of sulfate groups on the adsorption and activity of cellulases on cellulose substrates. *Langmuir*, **2013**, 29, 3280-91	4	33
20	The growing merits and dwindling limitations of bacterial cellulose-based tissue engineering scaffolds. *Current Opinion in Chemical Engineering*, **2019**, 24, 98-106	5.4	31

19	Cellulose Nanocrystals for Thermoplastic Reinforcement: Effect of Filler Surface Chemistry on Composite Properties. *ACS Symposium Series*, **2006**, 99-113	0.4	18
18	Folate Conjugated Cellulose Nanocrystals Potentiate Irreversible Electroporation-induced Cytotoxicity for the Selective Treatment of Cancer Cells. *Technology in Cancer Research and Treatment*, **2015**, 14, 757-66	2.7	17
17	Folic Acid-Conjugated Cellulose Nanocrystals Show High Folate-Receptor Binding Affinity and Uptake by KB and Breast Cancer Cells. *ACS Omega*, **2018**, 3, 13952-13959	3.9	17
16	Surface-initiated dehydrogenative polymerization of monolignols: a quartz crystal microbalance with dissipation monitoring and atomic force microscopy study. *Biomacromolecules*, **2013**, 14, 3964-72	6.9	16
15	Effect of Nonionic Surfactants on Dispersion and Polar Interactions in the Adsorption of Cellulases onto Lignin. *Journal of Physical Chemistry B*, **2017**, 121, 9607-9620	3.4	16
14	Chitinase activity on amorphous chitin thin films: a quartz crystal microbalance with dissipation monitoring and atomic force microscopy study. *Biomacromolecules*, **2013**, 14, 2622-8	6.9	15
13	Enhanced dewatering of polyelectrolyte nanocomposites by hydrophobic polyelectrolytes. *Langmuir*, **2012**, 28, 11086-94	4	12
12	High elastic modulus nanoparticles: a novel tool for subfailure connective tissue matrix damage. *Translational Research*, **2014**, 164, 244-57	11	8
11	Model Cellulosic Surfaces: History and Recent Advances. *ACS Symposium Series*, **2010**, 3-53	0.4	8
10	Bioactive Cellulose Nanocrystal-Poly(ε-Caprolactone) Nanocomposites for Bone Tissue Engineering Applications. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 605924	5.8	8
9	Adsorption of Xyloglucan onto Thin Films of Cellulose Nanocrystals and Amorphous Cellulose: Film Thickness Effects. *ACS Omega*, **2018**, 3, 14004-14012	3.9	7
8	2-Hydroxypropyltrimethylammonium xylan adsorption onto rod-like cellulose nanocrystal. *Journal of Colloid and Interface Science*, **2015**, 440, 119-25	9.3	6
7	Optical Characterization of Cellulose Films via Multiple Incident Media Ellipsometry. *ACS Symposium Series*, **2010**, 137-155	0.4	6
6	Mixed-dimer formation in binary systems of 4-substituted benzoic acids and structure considerations. *Canadian Journal of Chemistry*, **2008**, 86, 525-532	0.9	6
5	Self-Assembly of Cellulose Nanocrystals: Parabolic Focal Conic Films. *ACS Symposium Series*, **2006**, 26-32	0.4	5
4	Deposition of Cellulose Nanocrystals by Inkjet Printing. *ACS Symposium Series*, **2010**, 157-171	0.4	3
3	Multi-axis alignment of Rod-like cellulose nanocrystals in drying droplets. *Journal of Colloid and Interface Science*, **2021**, 603, 450-458	9.3	2
2	Hydrophobically modified pullulan adsorption onto rod-like cellulose nanocrystals. *Cellulose*, **2021**, 28, 9725-9738	5.5	0

1 The Potential of a Cellulose Nanocrystal and Water Soluble Chitosan Complex as an Oral Drug Delivery Carrier. *FASEB Journal*, **2012**, 26, 851.13 0.9