

# Ana Balea

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8357018/publications.pdf>

Version: 2024-02-01

32  
papers

1,268  
citations

361413

20  
h-index

454955

30  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1314  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of the fermentation process and properties of bacterial cellulose: a review. Cellulose, 2016, 23, 57-91.	4.9	197
2	Nanocellulose for Industrial Use. , 2018, , 74-126.		105
3	Industrial Application of Nanocelluloses in Papermaking: A Review of Challenges, Technical Solutions, and Market Perspectives. Molecules, 2020, 25, 526.	3.8	86
4	Nanocelluloses: Natural-Based Materials for Fiber-Reinforced Cement Composites. A Critical Review. Polymers, 2019, 11, 518.	4.5	82
5	Chitosan grafted/cross-linked with biodegradable polymers: A review. International Journal of Biological Macromolecules, 2021, 178, 325-343.	7.5	72
6	Assessing the influence of refining, bleaching and TEMPO-mediated oxidation on the production of more sustainable cellulose nanofibers and their application as paper additives. Industrial Crops and Products, 2017, 97, 374-387.	5.2	55
7	Pickering Emulsions Containing Cellulose Microfibers Produced by Mechanical Treatments as Stabilizer in the Food Industry. Applied Sciences (Switzerland), 2019, 9, 359.	2.5	53
8	Mechanical and chemical dispersion of nanocelluloses to improve their reinforcing effect on recycled paper. Cellulose, 2018, 25, 269-280.	4.9	52
9	Synergies between cellulose nanofibers and retention additives to improve recycled paper properties and the drainage process. Cellulose, 2017, 24, 2987-3000.	4.9	43
10	Comparison Of Mechanical And Chemical Nanocellulose As Additives To Reinforce Recycled Cardboard. Scientific Reports, 2020, 10, 3778.	3.3	42
11	In Situ Production and Application of Cellulose Nanofibers to Improve Recycled Paper Production. Molecules, 2019, 24, 1800.	3.8	40
12	Nanocellulose characterization challenges. BioResources, 2021, 16, 4382-4410.	1.0	34
13	A reproducible method to characterize the bulk morphology of cellulose nanocrystals and nanofibers by transmission electron microscopy. Cellulose, 2020, 27, 4871-4887.	4.9	33
14	Identification of Recalcitrant Stickies and Their Sources in Newsprint Production. Industrial & Engineering Chemistry Research, 2008, 47, 6239-6250.	3.7	32
15	Valorization of Corn Stalk by the Production of Cellulose Nanofibers to Improve Recycled Paper Properties. BioResources, 2016, 11, .	1.0	31
16	Critical comparison of the properties of cellulose nanofibers produced from softwood and hardwood through enzymatic, chemical and mechanical processes. International Journal of Biological Macromolecules, 2022, 205, 220-230.	7.5	31
17	Cellulose nanofibers and chitosan to remove flexographic inks from wastewaters. Environmental Science: Water Research and Technology, 2019, 5, 1558-1567.	2.4	30
18	Effect of Bleached Eucalyptus and Pine Cellulose Nanofibers on the Physico-Mechanical Properties of Cartonboard. BioResources, 2016, 11, .	1.0	28

#	ARTICLE	IF	CITATIONS
19	Interactions between cellulose nanofibers and retention systems in flocculation of recycled fibers. Cellulose, 2017, 24, 677-692.	4.9	28
20	Cellulose nanofibers from residues to improve linting and mechanical properties of recycled paper. Cellulose, 2018, 25, 1339-1351.	4.9	25
21	Application of cellulose nanofibers to remove water-based flexographic inks from wastewaters. Environmental Science and Pollution Research, 2017, 24, 5049-5059.	5.3	22
22	Optimization of reagent consumption in TEMPO-mediated oxidation of Eucalyptus cellulose to obtain cellulose nanofibers. Cellulose, 2022, 29, 6611-6627.	4.9	22
23	Lignocellulosic micro/nanofibers from wood sawdust applied to recycled fibers for the production of paper bags. International Journal of Biological Macromolecules, 2017, 105, 664-670.	7.5	19
24	Study of The Reaction Mechanism to Produce Nanocellulose-Graft-Chitosan Polymer. Nanomaterials, 2018, 8, 883.	4.1	19
25	Combined effect of sodium carboxymethyl cellulose, cellulose nanofibers and drainage aids in recycled paper production process. Carbohydrate Polymers, 2018, 183, 201-206.	10.2	18
26	Correlation between rheological measurements and morphological features of lignocellulosic micro/nanofibers from different softwood sources. International Journal of Biological Macromolecules, 2021, 187, 789-799.	7.5	17
27	Green Production of Glycerol Ketals with a Clay-Based Heterogeneous Acid Catalyst. Applied Sciences (Switzerland), 2019, 9, 4488.	2.5	14
28	Recycled Fibers for Sustainable Hybrid Fiber Cement Based Material: A Review. Materials, 2021, 14, 2408.	2.9	14
29	Gel Point as Measurement of Dispersion Degree of Nano-Cellulose Suspensions and Its Application in Papermaking. Nanomaterials, 2022, 12, 790.	4.1	9
30	Learning by doing: Chem-E-Car® motivating experience. Education for Chemical Engineers, 2019, 26, 24-29.	4.8	8
31	Fiber reinforced cement based composites. , 2021, , 597-648.		4
32	Modelling the Mineralization of Formaldehyde by Treatment with Nitric Acid. Water (Switzerland), 2020, 12, 1567.	2.7	3