

Gustav Nystrom

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

4,392
citations

29
h-index

66
g-index

79
ext. papers

5,409
ext. citations

11.4
avg, IF

6.06
L-index

#	Paper	IF	Citations
71	Toward flexible polymer and paper-based energy storage devices. <i>Advanced Materials</i> , 2011 , 23, 3751-69	24	790
70	Ultrafast all-polymer paper-based batteries. <i>Nano Letters</i> , 2009 , 9, 3635-9	11.5	391
69	Biopolymer Aerogels and Foams: Chemistry, Properties, and Applications. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7580-7608	16.4	292
68	Understanding nanocellulose chirality and structure-properties relationship at the single fibril level. <i>Nature Communications</i> , 2015 , 6, 7564	17.4	290
67	A nanocellulose polypyrrole composite based on microfibrillated cellulose from wood. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 4178-82	3.4	235
66	Self-assembled three-dimensional and compressible interdigitated thin-film supercapacitors and batteries. <i>Nature Communications</i> , 2015 , 6, 7259	17.4	219
65	Nanocellulose aerogels functionalized by rapid layer-by-layer assembly for high charge storage and beyond. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 12038-42	16.4	170
64	Amyloid fibril systems reduce, stabilize and deliver bioavailable nanosized iron. <i>Nature Nanotechnology</i> , 2017 , 12, 642-647	28.7	151
63	Nanocellulose-MXene Biomimetic Aerogels with Orientation-Tunable Electromagnetic Interference Shielding Performance. <i>Advanced Science</i> , 2020 , 7, 2000979	13.6	125
62	Amyloid Templated Gold Aerogels. <i>Advanced Materials</i> , 2016 , 28, 472-8	24	124
61	Electroactive nanofibrillated cellulose aerogel composites with tunable structural and electrochemical properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 19014		123
60	Additive manufacturing of silica aerogels. <i>Nature</i> , 2020 , 584, 387-392	50.4	122
59	Ultralight, Flexible, and Biomimetic Nanocellulose/Silver Nanowire Aerogels for Electromagnetic Interference Shielding. <i>ACS Nano</i> , 2020 , 14, 2927-2938	16.7	121
58	Flexible and Ultrathin Waterproof Cellular Membranes Based on High-Conjunction Metal-Wrapped Polymer Nanofibers for Electromagnetic Interference Shielding. <i>Advanced Materials</i> , 2020 , 32, e1908496	24	101
57	Functional Materials from Nanocellulose: Utilizing Structure-Property Relationships in Bottom-Up Fabrication. <i>Advanced Materials</i> , 2021 , 33, e2000657	24	66
56	Confinement-induced liquid crystalline transitions in amyloid fibril cholesteric tactoids. <i>Nature Nanotechnology</i> , 2018 , 13, 330-336	28.7	66
55	Two-Dimensional Aggregation and Semidilute Ordering in Cellulose Nanocrystals. <i>Langmuir</i> , 2016 , 32, 442-50	4	64

54	Cycling stability and self-protective properties of a paper-based polypyrrole energy storage device. <i>Electrochemistry Communications</i> , 2011 , 13, 869-871	5.1	64
53	Formation of Colloidal Nanocellulose Glasses and Gels. <i>Langmuir</i> , 2017 , 33, 9772-9780	4	63
52	Rapid potential step charging of paper-based polypyrrole energy storage devices. <i>Electrochimica Acta</i> , 2012 , 70, 91-97	6.7	57
51	High-capacity conductive nanocellulose paper sheets for electrochemically controlled extraction of DNA oligomers. <i>PLoS ONE</i> , 2011 , 6, e29243	3.7	54
50	Influence of the cellulose substrate on the electrochemical properties of paper-based polypyrrole electrode materials. <i>Journal of Materials Science</i> , 2012 , 47, 5317-5325	4.3	45
49	Nanocellulose Fragmentation Mechanisms and Inversion of Chirality from the Single Particle to the Cholesteric Phase. <i>ACS Nano</i> , 2018 , 12, 5141-5148	16.7	43
48	Nanostructural Properties and Twist Periodicity of Cellulose Nanofibrils with Variable Charge Density. <i>Biomacromolecules</i> , 2019 , 20, 1288-1296	6.9	36
47	Ice-Templated and Cross-Linked Amyloid Fibril Aerogel Scaffolds for Cell Growth. <i>Biomacromolecules</i> , 2017 , 18, 2858-2865	6.9	36
46	Titania-Cellulose Hybrid Monolith for In-Flow Purification of Water under Solar Illumination. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29599-29607	9.5	35
45	Amyloid Fibrils Length Controls Shape and Structure of Nematic and Cholesteric Tactoids. <i>ACS Nano</i> , 2019 , 13, 591-600	16.7	35
44	Nanocellulose assisted preparation of ambient dried, large-scale and mechanically robust carbon nanotube foams for electromagnetic interference shielding. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17969-17979	13	30
43	Amyloid Templated Organic/Inorganic Hybrid Aerogels. <i>Advanced Functional Materials</i> , 2018 , 28, 1703609	15.6	29
42	Ultra-Porous Nanocellulose Foams: A Facile and Scalable Fabrication Approach. <i>Nanomaterials</i> , 2019 , 9,	5.4	28
41	Amyloid Fibrils form Hybrid Colloidal Gels and Aerogels with Dispersed CaCO ₃ Nanoparticles. <i>Advanced Functional Materials</i> , 2017 , 27, 1700897	15.6	28
40	Fully 3D Printed and Disposable Paper Supercapacitors. <i>Advanced Materials</i> , 2021 , 33, e2101328	24	26
39	3D-Printing Nanocellulose-Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) Biodegradable Composites by Fused Deposition Modeling. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 10292-10302	8.3	23
38	Nanocellulose Aerogels Functionalized by Rapid Layer-by-Layer Assembly for High Charge Storage and Beyond. <i>Angewandte Chemie</i> , 2013 , 125, 12260-12264	3.6	22
37	Terahertz Birefringent Biomimetic Aerogels Based on Cellulose Nanofibers and Conductive Nanomaterials. <i>ACS Nano</i> , 2021 , 15, 7451-7462	16.7	19

36	Biopolymer-Aerogele und -Schäume: Chemie, Eigenschaften und Anwendungen. <i>Angewandte Chemie</i> , 2018 , 130, 7704-7733	3.6	18
35	Designing Cellulose Nanofibrils for Stabilization of Fluid Interfaces. <i>Biomacromolecules</i> , 2019 , 20, 4574-4580	5.8	18
34	Aligned cellulose nanocrystals and directed nanoscale deposition of colloidal spheres. <i>Cellulose</i> , 2014 , 21, 1591-1599	5.5	17
33	Ultrafine Cellulose Nanofiber-Assisted Physical and Chemical Cross-Linking of MXene Sheets for Electromagnetic Interference Shielding.. <i>Small Methods</i> , 2021 , 5, e2100889	12.8	17
32	Mechanical Properties Tailoring of 3D Printed Photoresponsive Nanocellulose Composites. <i>Advanced Functional Materials</i> , 2020 , 30, 2002914	15.6	16
31	3D printing of shape-morphing and antibacterial anisotropic nanocellulose hydrogels. <i>Carbohydrate Polymers</i> , 2021 , 259, 117716	10.3	16
30	Confinement-Induced Ordering and Self-Folding of Cellulose Nanofibrils. <i>Advanced Science</i> , 2019 , 6, 1801540	15.4	16
29	Dual-porous cellulose nanofibril aerogels via modular drying and cross-linking. <i>Nanoscale</i> , 2020 , 12, 7383-7394	7.7	15
28	Liquid crystalline filamentous biological colloids: Analogies and differences. <i>Current Opinion in Colloid and Interface Science</i> , 2018 , 38, 30-44	7.6	15
27	Globular protein assembly and network formation at fluid interfaces: effect of oil. <i>Soft Matter</i> , 2021 , 17, 1692-1700	3.6	15
26	Particle size distributions for cellulose nanocrystals measured by atomic force microscopy: an interlaboratory comparison. <i>Cellulose</i> , 2021 , 28, 1387-1403	5.5	14
25	Dual physically and chemically crosslinked regenerated cellulose - Gelatin composite hydrogels towards art restoration. <i>Carbohydrate Polymers</i> , 2020 , 234, 115885	10.3	11
24	Assembly of Cellulose Nanocrystal-Lysozyme Composite Films with Varied Lysozyme Morphology. <i>Biomacromolecules</i> , 2020 , 21, 5139-5147	6.9	11
23	Nanocellulose-lysozyme colloidal gels via electrostatic complexation. <i>Carbohydrate Polymers</i> , 2021 , 251, 117021	10.3	9
22	Advantages of Additive Manufacturing for Biomedical Applications of Polyhydroxyalkanoates. <i>Bioengineering</i> , 2021 , 8,	5.3	9
21	Probing the Structure of Filamentous Nonergodic Gels by Dynamic Light Scattering. <i>Macromolecules</i> , 2020 , 53, 5950-5956	5.5	7
20	[P1.028] Development of Nanocellulose/Polypyrrole Composites Towards Blood Purification. <i>Procedia Engineering</i> , 2012 , 44, 733-736		5
19	Self-Assembly Pathways and Antimicrobial Properties of Lysozyme in Different Aggregation States. <i>Biomacromolecules</i> , 2021 , 22, 4327-4336	6.9	5

18	Chitin-amyloid synergism and their use as sustainable structural adhesives. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 19741-19753	13	5
17	Versatile carbon-loaded shellac ink for disposable printed electronics. <i>Scientific Reports</i> , 2021 , 11, 23784	4.9	5
16	Structure-property relationships of cellulose nanofibril hydro- and aerogels and their building blocks. <i>Nanoscale</i> , 2020 , 12, 11638-11646	7.7	4
15	Polysaccharide-reinforced amyloid fibril hydrogels and aerogels. <i>Nanoscale</i> , 2021 , 13, 12534-12545	7.7	4
14	Rheology of cocoa butter. <i>Journal of Food Engineering</i> , 2021 , 305, 110598	6	4
13	Enzyme Activities of Five White-Rot Fungi in the Presence of Nanocellulose. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021 , 7,	5.6	2
12	Hierarchical Structure of Cellulose Nanofibril-Based Foams Explored by Multimodal X-ray Scattering. <i>Biomacromolecules</i> , 2022 , 23, 676-686	6.9	2
11	Sustainable Cellulose Nanofiber Films from Carrot Pomace as Sprayable Coatings for Food Packaging Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 342-352	8.3	2
10	Nanocellulose-assisted preparation of electromagnetic interference shielding materials with diversified microstructure. <i>SmartMat</i> ,	22.8	2
9	Benchmarking supramolecular adhesive behaviour of nanocelluloses, cellulose derivatives and proteins. <i>Carbohydrate Polymers</i> , 2022 , 119681	10.3	2
8	The Salt and Paper Battery; Ultrafast and All-polymer Based. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1197, 60		1
7	Melanized-Cationic Cellulose Nanofiber Foams for Bioinspired Removal of Cationic Dyes. <i>Biomacromolecules</i> , 2021 , 22, 4681-4690	6.9	0
6	Self-Sensing Cellulose Structures With Design-Controlled Stiffness. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 4017-4024	4.2	0
5	Nanocellulose: Functional Materials from Nanocellulose: Utilizing Structure-Property Relationships in Bottom-Up Fabrication (Adv. Mater. 28/2021). <i>Advanced Materials</i> , 2021 , 33, 2170216	24	0
4	Biohybrid Nanocellulose-Lysozyme Amyloid Aerogels via Electrostatic Complexation. <i>ACS Omega</i> , 2022 , 7, 578-586	3.9	0
3	Superinsulating nanocellulose aerogels: Effect of density and nanofiber alignment. <i>Carbohydrate Polymers</i> , 2022 , 119675	10.3	0
2	Long Cycle Life Nanocellulose Polypyrrole Electrodes. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1312, 1		
1	Ultrafine Cellulose Nanofiber-Assisted Physical and Chemical Cross-Linking of MXene Sheets for Electromagnetic Interference Shielding (Small Methods 12/2021). <i>Small Methods</i> , 2021 , 5, 2170062	12.8	

