

Wadood Y Hamad

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.

125 papers	7,370 citations	45 h-index	84 g-index
141 ext. papers	8,413 ext. citations	9.4 avg, IF	6.62 L-index

#	Paper	IF	Citations
125	Free-standing mesoporous silica films with tunable chiral nematic structures. <i>Nature</i> , 2010 , 468, 422-5	50.4	723
124	Cellulose reinforced polymer composites and nanocomposites: a critical review. <i>Cellulose</i> , 2013 , 20, 2221-2262	5.3	437
123	Current characterization methods for cellulose nanomaterials. <i>Chemical Society Reviews</i> , 2018 , 47, 2609-2679	38.5	436
122	Responsive photonic hydrogels based on nanocrystalline cellulose. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8912-6	16.4	266
121	The development of chiral nematic mesoporous materials. <i>Accounts of Chemical Research</i> , 2014 , 47, 1088-96	24.9	223
120	Rheology of nanocrystalline cellulose aqueous suspensions. <i>Langmuir</i> , 2012 , 28, 17124-33	4	217
119	The use of nanocrystalline cellulose for the binding and controlled release of drugs. <i>International Journal of Nanomedicine</i> , 2011 , 6, 321-30	7.3	196
118	Chiral nematic mesoporous carbon derived from nanocrystalline cellulose. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10991-5	16.4	186
117	Parameters Affecting the Chiral Nematic Phase of Nanocrystalline Cellulose Films. <i>Macromolecules</i> , 2010 , 43, 3851-3858	5.5	178
116	Flexible and iridescent chiral nematic mesoporous organosilica films. <i>Journal of the American Chemical Society</i> , 2012 , 134, 867-70	16.4	172
115	Structure and transformation of tactoids in cellulose nanocrystal suspensions. <i>Nature Communications</i> , 2016 , 7, 11515	17.4	156
114	Flexible Photonic Cellulose Nanocrystal Films. <i>Advanced Materials</i> , 2016 , 28, 10042-10047	24	153
113	Chiral nematic assemblies of silver nanoparticles in mesoporous silica thin films. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3728-31	16.4	145
112	Flexible mesoporous photonic resins with tunable chiral nematic structures. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8921-4	16.4	137
111	Hard templating of nanocrystalline titanium dioxide with chiral nematic ordering. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6886-90	16.4	132
110	Ionic strength effects on the microstructure and shear rheology of cellulose nanocrystal suspensions. <i>Cellulose</i> , 2014 , 21, 3347-3359	5.5	131
109	Responsive mesoporous photonic cellulose films by supramolecular cotemplating. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8880-4	16.4	125

108	Unwinding a spiral of cellulose nanocrystals for stimuli-responsive stretchable optics. <i>Nature Communications</i> , 2019 , 10, 510	17.4	113
107	Antimicrobial nanocomposite films made of poly(lactic acid)-cellulose nanocrystals (PLA-CNC) in food applications: part B: effect of oregano essential oil release on the inactivation of <i>Listeria monocytogenes</i> in mixed vegetables. <i>Cellulose</i> , 2014 , 21, 4271-4285	5.5	102
106	On the Development and Applications of Cellulosic Nanofibrillar and Nanocrystalline Materials. <i>Canadian Journal of Chemical Engineering</i> , 2008 , 84, 513-519	2.3	102
105	Influence of degree of sulfation on the rheology of cellulose nanocrystal suspensions. <i>Rheologica Acta</i> , 2013 , 52, 741-751	2.3	101
104	Biopolymer Templated Glass with a Twist: Controlling the Chirality, Porosity, and Photonic Properties of Silica with Cellulose Nanocrystals. <i>Advanced Functional Materials</i> , 2014 , 24, 327-338	15.6	99
103	Iridescent Chiral Nematic Cellulose Nanocrystal/Polymer Composites Assembled in Organic Solvents.. <i>ACS Macro Letters</i> , 2013 , 2, 1016-1020	6.6	98
102	CdS Quantum Dots Encapsulated in Chiral Nematic Mesoporous Silica: New Iridescent and Luminescent Materials. <i>Advanced Functional Materials</i> , 2014 , 24, 777-783	15.6	96
101	Shear rheology of polylactide (PLA)-cellulose nanocrystal (CNC) nanocomposites. <i>Cellulose</i> , 2016 , 23, 1885-1897	5.5	84
100	Antimicrobial nanocomposite films made of poly(lactic acid)-cellulose nanocrystals (PLA-CNC) in food applications: part A: Effect of nisin release on the inactivation of <i>Listeria monocytogenes</i> in ham. <i>Cellulose</i> , 2014 , 21, 1837-1850	5.5	83
99	Chiral nematic cellulose-gold nanoparticle composites from mesoporous photonic cellulose. <i>Chemical Communications</i> , 2015 , 51, 530-3	5.8	82
98	Structure-Process-Yield interrelations in nanocrystalline cellulose extraction. <i>Canadian Journal of Chemical Engineering</i> , 2010 , 88, n/a-n/a	2.3	80
97	Tunable mesoporous bilayer photonic resins with chiral nematic structures and actuator properties. <i>Advanced Materials</i> , 2014 , 26, 2323-8	24	79
96	Imprinting of Photonic Patterns with Thermosetting Amino-Formaldehyde-Cellulose Composites. <i>ACS Macro Letters</i> , 2013 , 2, 818-821	6.6	75
95	Tuning the iridescence of chiral nematic cellulose nanocrystals and mesoporous silica films by substrate variation. <i>Chemical Communications</i> , 2013 , 49, 11296-8	5.8	74
94	Hydrothermal Gelation of Aqueous Cellulose Nanocrystal Suspensions. <i>Biomacromolecules</i> , 2016 , 17, 2747-54	6.9	72
93	Chiral nematic stained glass: controlling the optical properties of nanocrystalline cellulose-templated materials. <i>Langmuir</i> , 2012 , 28, 17256-62	4	68
92	In-situ polymerized cellulose nanocrystals (CNC)-poly(l-lactide) (PLLA) nanomaterials and applications in nanocomposite processing. <i>Carbohydrate Polymers</i> , 2016 , 153, 549-558	10.3	66
91	Photonic patterns printed in chiral nematic mesoporous resins. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4304-8	16.4	62

90	Large, Crack-Free Freestanding Films with Chiral Nematic Structures. <i>Advanced Optical Materials</i> , 2013 , 1, 295-299	8.1	60
89	Cellulose Nanocrystal Elastomers with Reversible Visible Color. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 226-231	16.4	60
88	Tactoid Annealing Improves Order in Self-Assembled Cellulose Nanocrystal Films with Chiral Nematic Structures. <i>Langmuir</i> , 2018 , 34, 646-652	4	57
87	Thermal switching of the reflection in chiral nematic mesoporous organosilica films infiltrated with liquid crystals. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6854-9	9.5	57
86	Chiroptical, morphological and conducting properties of chiral nematic mesoporous cellulose/polypyrrole composite films. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19184-19194	13	57
85	Transparent Depolarizing Organic and Inorganic Films for Optics and Sensors. <i>Advanced Materials</i> , 2017 , 29, 1606083	24	56
84	Stable and sensitive stimuli-responsive anisotropic hydrogels for sensing ionic strength and pressure. <i>Materials Horizons</i> , 2018 , 5, 1076-1081	14.4	56
83	Shape Memory Cellulose-Based Photonic Reflectors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31935-31940	9.5	54
82	Polymer and Mesoporous Silica Microspheres with Chiral Nematic Order from Cellulose Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12460-4	16.4	50
81	Optically tunable chiral nematic mesoporous cellulose films. <i>Soft Matter</i> , 2015 , 11, 4686-94	3.6	48
80	Critical insights into the reinforcement potential of cellulose nanocrystals in polymer nanocomposites. <i>Current Opinion in Solid State and Materials Science</i> , 2019 , 23, 100761	12	45
79	New insights into nano-crystalline cellulose structure and morphology based on solid-state NMR. <i>Cellulose</i> , 2012 , 19, 1619-1629	5.5	45
78	CO ₂ -Switchable Cellulose Nanocrystal Hydrogels. <i>Chemistry of Materials</i> , 2018 , 30, 376-385	9.6	42
77	Aerogel materials with periodic structures imprinted with cellulose nanocrystals. <i>Nanoscale</i> , 2018 , 10, 3805-3812	7.7	40
76	Effects of emulsion droplet size on the structure of electrospun ultrafine biocomposite fibers with cellulose nanocrystals. <i>Biomacromolecules</i> , 2013 , 14, 3801-7	6.9	39
75	Chiral Nematic Mesoporous Carbon Derived From Nanocrystalline Cellulose. <i>Angewandte Chemie</i> , 2011 , 123, 11183-11187	3.6	37
74	Pressure-Responsive Hierarchical Chiral Photonic Aerogels. <i>Advanced Materials</i> , 2019 , 31, e1808186	24	36
73	Chiroptical luminescent nanostructured cellulose films. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 979-987	7.8	35

72	Black Titania with Nanoscale Helicity. <i>Advanced Functional Materials</i> , 2019 , 29, 1904639	15.6	32
71	Freeze-Thaw Gelation of Cellulose Nanocrystals. <i>ACS Macro Letters</i> , 2019 , 486-491	6.6	31
70	Stimuli-Responsive Anisotropic Materials Based on Unidirectional Organization of Cellulose Nanocrystals in an Elastomer. <i>Macromolecules</i> , 2019 , 52, 5317-5324	5.5	31
69	Flexible Mesoporous Photonic Resins with Tunable Chiral Nematic Structures. <i>Angewandte Chemie</i> , 2013 , 125, 9089-9092	3.6	30
68	Fabrication of Cellulose Nanocrystal Films through Differential Evaporation for Patterned Coatings. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3098-3104	5.6	26
67	Chiral nematic porous germania and germanium/carbon films. <i>Nanoscale</i> , 2015 , 7, 13215-23	7.7	25
66	Near-IR-Sensitive Upconverting Nanostructured Photonic Cellulose Films. <i>Advanced Optical Materials</i> , 2017 , 5, 1600514	8.1	25
65	Tuning the photonic properties of chiral nematic mesoporous organosilica with hydrogen-bonded liquid-crystalline assemblies. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 1537-1545	7.1	25
64	Magnesiothermic Reduction of Thin Films: Towards Semiconducting Chiral Nematic Mesoporous Silicon Carbide and Silicon Structures. <i>Advanced Functional Materials</i> , 2015 , 25, 2175-2181	15.6	24
63	Alkenylation of cellulose nanocrystals (CNC) and their applications. <i>Polymer</i> , 2016 , 101, 338-346	3.9	23
62	Hard Templating of Nanocrystalline Titanium Dioxide with Chiral Nematic Ordering. <i>Angewandte Chemie</i> , 2012 , 124, 6992-6996	3.6	23
61	Novel PPV/mesoporous organosilica composites: influence of the host chirality on a conjugated polymer guest. <i>Langmuir</i> , 2013 , 29, 12579-84	4	22
60	Responsive Photonic Hydrogels Based on Nanocrystalline Cellulose. <i>Angewandte Chemie</i> , 2013 , 125, 9080-9084	3.6	22
59	Thermal Degradation of Cellulose Filaments and Nanocrystals. <i>Biomacromolecules</i> , 2020 , 21, 3374-3386	6.9	22
58	Broadband Circular Polarizing Film Based on Chiral Nematic Liquid Crystals. <i>Advanced Optical Materials</i> , 2018 , 6, 1800412	8.1	22
57	2017,		22
56	Surface modification of lignin for applications in polypropylene blends. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45103	2.9	21
55	Investigation of the formation mechanisms in high internal phase Pickering emulsions stabilized by cellulose nanocrystals. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	21

54	Self-Assembly Route to TiO ₂ and TiC with a Liquid Crystalline Order. <i>Chemistry of Materials</i> , 2019 , 31, 2174-2181	9.6	20
53	Iridescent Cellulose Nanocrystal Films Modified with Hydroxypropyl Cellulose. <i>Biomacromolecules</i> , 2020 , 21, 1295-1302	6.9	20
52	Retrieving the Coassembly Pathway of Composite Cellulose Nanocrystal Photonic Films from their Angular Optical Response. <i>Advanced Materials</i> , 2020 , 32, e1906889	24	20
51	Hydrogen-Bonded Liquid Crystals in Confined Spaces Toward Photonic Hybrid Materials. <i>Advanced Functional Materials</i> , 2018 , 28, 1800207	15.6	20
50	Photonic Patterns Printed in Chiral Nematic Mesoporous Resins. <i>Angewandte Chemie</i> , 2015 , 127, 4378-4382	38.2	19
49	Some microrheological aspects of wood-pulp fibres subjected to fatigue loading. <i>Cellulose</i> , 1997 , 4, 51-56	5.5	19
48	Controlling lignin particle size for polymer blend applications. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	18
47	Tunable Diffraction Gratings from Biosourced Lyotropic Liquid Crystals. <i>Advanced Materials</i> , 2020 , 32, e1907376	24	18
46	Hard Photonic Glasses and Corundum Nanostructured Films from Aluminothermic Reduction of Helicoidal Mesoporous Silicas. <i>Chemistry of Materials</i> , 2016 , 28, 2581-2588	9.6	18
45	Post-modification of Cellulose Nanocrystal Aerogels with Thiol-Ene Click Chemistry. <i>Biomacromolecules</i> , 2019 , 20, 2779-2785	6.9	16
44	Microsuspension Polymerization of Styrene Using Cellulose Nanocrystals as Pickering Emulsifiers: On the Evolution of Latex Particles. <i>Langmuir</i> , 2020 , 36, 796-809	4	16
43	Size-Selective Exclusion Effects of Liquid Crystalline Tactoids on Nanoparticles: A Separation Method. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3360-3365	16.4	14
42	Responsive Mesoporous Photonic Cellulose Films by Supramolecular Cotemplating. <i>Angewandte Chemie</i> , 2014 , 126, 9026-9030	3.6	14
41	Boundary Geometry Effects on the Coalescence of Liquid Crystalline Tactoids and Formation of Topological Defects. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 278-282	6.4	14
40	Photopatterning Freestanding Chiral Nematic Mesoporous Organosilica Films. <i>Advanced Functional Materials</i> , 2017 , 27, 1703346	15.6	13
39	Hard-templating of Prussian blue analogues in mesoporous silica and organosilica. <i>Dalton Transactions</i> , 2015 , 44, 14724-31	4.3	13
38	Mechanically tunable nanocomposite hydrogels based on functionalized cellulose nanocrystals. <i>Nordic Pulp and Paper Research Journal</i> , 2014 , 29, 95-104	1.1	13
37	Emulsion-polymerized flexible semi-conducting CNCs/PANIDBSA nanocomposite films. <i>RSC Advances</i> , 2016 , 6, 65494-65503	3.7	13

36	Magnetic Mesoporous Photonic Cellulose Films. <i>Langmuir</i> , 2016 , 32, 9329-34	4	12
35	Photonic and Semiconductor Materials Based on Cellulose Nanocrystals. <i>Advances in Polymer Science</i> , 2015 , 287-328	1.3	11
34	Cellulose Nanocrystal Elastomers with Reversible Visible Color. <i>Angewandte Chemie</i> , 2020 , 132, 232-237	3.6	11
33	Iridescent Chiral Nematic Mesoporous Organosilicas with Alkylene Spacers. <i>Advanced Optical Materials</i> , 2018 , 6, 1800163	8.1	10
32	Microstructural cumulative material degradation and fatigue-failure micromechanisms in wood-pulp fibres. <i>Cellulose</i> , 1995 , 2, 159-177	5.5	10
31	In-situ production of polyethylene/cellulose nanocrystal composites. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 2107-2113	2.3	10
30	Improving Thin-Film Properties of Poly(vinyl alcohol) by the Addition of Low-Weight Percentages of Cellulose Nanocrystals. <i>Langmuir</i> , 2020 , 36, 3550-3557	4	9
29	Photonic metal-polymer resin nanocomposites with chiral nematic order. <i>Chemical Communications</i> , 2016 , 52, 7810-3	5.8	9
28	Growing the Bioeconomy: Advances in the Development of Applications for Cellulose Filaments and Nanocrystals. <i>Industrial Biotechnology</i> , 2019 , 15, 133-137	1.3	9
27	Shape-Memory Photonic Thermoplastics from Cellulose Nanocrystals. <i>Advanced Functional Materials</i> , 2103268	15.6	9
26	Liquid Crystalline Tactoidal Microphases in Ferrofluids: Spatial Positioning and Orientation by Magnetic Field Gradients. <i>Chem</i> , 2019 , 5, 681-692	16.2	8
25	Host-Guest Chemistry Within Cellulose Nanocrystal Gel Receptors. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4705-4710	16.4	8
24	Properties and stabilization mechanism of oil-in-water Pickering emulsions stabilized by cellulose filaments. <i>Carbohydrate Polymers</i> , 2020 , 248, 116775	10.3	8
23	Cellulosic Materials 2002 ,		8
22	Analysis of fibre deformation processes in high-consistency refining based on Raman microscopy and X-ray diffraction. <i>Holzforschung</i> , 2012 , 66, 711-716	2	7
21	Solid-state Na NMR spectroscopy studies of ordered and disordered cellulose nanocrystal films. <i>Solid State Nuclear Magnetic Resonance</i> , 2019 , 97, 31-39	3.1	7
20	Synthesis of Chiral Nematic Mesoporous Metal and Metal Oxide Nanocomposites and their Use as Heterogeneous Catalysts. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 3937-3943	2.3	6
19	Plant-Inspired Polyaleuritate Nanocellulose Composite Photonic Films. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 1528-1534	4.3	6

18	Chiral nematic mesoporous magnetic ferrites. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 11382-11386	7.1	6
17	Aerogel templating on functionalized fibers of nanocellulose networks. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 1655-1663	7.8	5
16	Polymer and Mesoporous Silica Microspheres with Chiral Nematic Order from Cellulose Nanocrystals. <i>Angewandte Chemie</i> , 2016 , 128, 12648-12652	3.6	5
15	Thermal annealing of iridescent cellulose nanocrystal films. <i>Carbohydrate Polymers</i> , 2021 , 272, 118468	10.3	5
14	Chiral Nematic Cellulose Nanocrystal/Germania and Carbon/Germania Composite Aerogels as Supercapacitor Materials. <i>Chemistry of Materials</i> , 2021 , 33, 5197-5209	9.6	4
13	A rheological investigation of oil-in-water Pickering emulsions stabilized by cellulose nanocrystals. <i>Journal of Colloid and Interface Science</i> , 2021 , 608, 2820-2820	9.3	3
12	Size-Selective Exclusion Effects of Liquid Crystalline Tactoids on Nanoparticles: A Separation Method. <i>Angewandte Chemie</i> , 2018 , 130, 3418-3423	3.6	2
11	Fast Self-Assembly of Scalable Photonic Cellulose Nanocrystal and Hybrid Films via Electrophoresis.. <i>Advanced Materials</i> , 2022 , e2109170	24	2
10	Concentric chiral nematic polymeric fibers from cellulose nanocrystals. <i>Nanoscale Advances</i> , 2021 , 3, 5111-5121	5.1	2
9	Moisture-tunable, ionic strength-controlled piezoelectric effect in cellulose nanocrystal films. <i>Applied Materials Today</i> , 2021 , 24, 101082	6.6	2
8	Cellulose Nanocrystals and Nanofibrils in Advanced Applications 2017 , 799-832		1
7	Chiral Photonic Aerogels: Pressure-Responsive Hierarchical Chiral Photonic Aerogels (Adv. Mater. 21/2019). <i>Advanced Materials</i> , 2019 , 31, 1970153	24	1
6	Guest-conditioned multicolor writing on cellulose nanocrystal canvases. <i>Materials Advances</i> , 2020 , 1, 2536-2541	3.3	1
5	Effect of thermal treatments on chiral nematic cellulose nanocrystal films. <i>Carbohydrate Polymers</i> , 2021 , 272, 118404	10.3	1
4	Cellulose Nanocrystal Chiral Nematic Composites with Wet Mechanical Adaptability. <i>Chemistry of Materials</i> ,	9.6	1
3	Host-Guest Chemistry Within Cellulose Nanocrystal Gel Receptors. <i>Angewandte Chemie</i> , 2020 , 132, 4735-4740	3.6	0
2	Sustainable biochars from carbonization of cellulose filaments and nanocrystals. <i>Bioresource Technology Reports</i> , 2021 , 100838	4.1	0
1	Electro-osmotic Actuators from Cellulose Nanocrystals and Nanocomposite Hydrogels. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 598-606	4.3	0

