

# Albert Mihranyan

## List of Publications by Year in Descending Order

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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.

90  
papers

4,969  
citations

39  
h-index

69  
g-index

93  
ext. papers

5,354  
ext. citations

6  
avg, IF

5.97  
L-index

#	Paper	IF	Citations
90	Two-Step Size-Exclusion Nanofiltration of Prothrombin Complex Concentrate Using Nanocellulose-Based Filter Paper. <i>Biomedicines</i> , <b>2020</b> , 8,	4.8	3
89	Dissolution Behavior of Flufenamic Acid in Heated Mixtures with Nanocellulose. <i>Molecules</i> , <b>2020</b> , 25,	4.8	3
88	Directly Compressed Tablets of Free Acid Ibuprofen with Nanocellulose Featuring Enhanced Dissolution: A Side-by-Side Comparison with Commercial Oral Dosage Forms. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	3
87	Would 20 nm Filtered Fetal Bovine Serum-Supplemented Media Support Growth of CHO and HEK-293 Cells?. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 8344-8351	4.1	0
86	Aggregate Removal Nanofiltration of Human Serum Albumin Solution Using Nanocellulose-Based Filter Paper. <i>Biomedicines</i> , <b>2020</b> , 8,	4.8	3
85	Immediate-Release Nifedipine Binary Dry Powder Mixtures with Nanocellulose Featuring Enhanced Solubility and Dissolution Rate. <i>Pharmaceutics</i> , <b>2019</b> , 11,	6.4	8
84	Amorphisation of Free Acid Ibuprofen and Other Profens in Mixtures with Nanocellulose: Dry Powder Formulation Strategy for Enhanced Solubility. <i>Pharmaceutics</i> , <b>2019</b> , 11,	6.4	8
83	Virus removal filtration of chemically defined Chinese Hamster Ovary cells medium with nanocellulose-based size exclusion filter. <i>Biologicals</i> , <b>2019</b> , 59, 62-67	1.8	12
82	Scalable and Sustainable Total Pathogen Removal Filter Paper for Point-of-Use Drinking Water Purification in Bangladesh. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 14373-14383	8.3	16
81	Nanocellulose-Based Nanoporous Filter Paper for Virus Removal Filtration of Human Intravenous Immunoglobulin. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 6352-6359	5.6	11
80	Biocompatibility of Nanocellulose-Reinforced PVA Hydrogel with Human Corneal Epithelial Cells for Ophthalmic Applications. <i>Journal of Functional Biomaterials</i> , <b>2019</b> , 10,	4.8	12
79	Growth media filtration using nanocellulose-based virus removal filter for upstream biopharmaceutical processing. <i>Journal of Membrane Science</i> , <b>2019</b> , 572, 464-474	9.6	17
78	Sulfonated nanocellulose beads as potential immunosorbents. <i>Cellulose</i> , <b>2018</b> , 25, 1899-1910	5.5	12
77	High-Performance Virus Removal Filter Paper for Drinking Water Purification. <i>Global Challenges</i> , <b>2018</b> , 2, 1800031	4.3	16
76	Blood Compatibility of Sulfonated Cladophora Nanocellulose Beads. <i>Molecules</i> , <b>2018</b> , 23,	4.8	11
75	Comparative Analysis of Dry and Wet Porometry Methods for Characterization of Regular and Cross-Linked Virus Removal Filter Papers. <i>Membranes</i> , <b>2018</b> , 9,	3.8	29
74	Nanoparticle-loaded hydrogels as a pathway for enzyme-triggered drug release in ophthalmic applications. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 536, 73-81	6.5	44

73	Potentially Immunogenic Contaminants in Wood-Based and Bacterial Nanocellulose: Assessment of Endotoxin and (1,3)- $\beta$ -Glucan Levels. <i>Biomacromolecules</i> , <b>2018</b> , 19, 150-157	6.9	12
72	Significance of Brownian Motion for Nanoparticle and Virus Capture in Nanocellulose-Based Filter Paper. <i>Membranes</i> , <b>2018</b> , 8,	3.8	15
71	Spectroscopic and Physicochemical Characterization of Sulfonated Cladophora Cellulose Beads. <i>Langmuir</i> , <b>2018</b> , 34, 11121-11125	4	5
70	On importance of impurities, potential leachables and extractables in algal nanocellulose for biomedical use. <i>Carbohydrate Polymers</i> , <b>2017</b> , 172, 11-19	10.3	27
69	Strain-induced stiffening of nanocellulose-reinforced poly(vinyl alcohol) hydrogels mimicking collagenous soft tissues. <i>Soft Matter</i> , <b>2017</b> , 13, 3936-3945	3.6	47
68	Protein-Nanocellulose Interactions in Paper Filters for Advanced Separation Applications. <i>Langmuir</i> , <b>2017</b> , 33, 4729-4736	4	24
67	Favored surface-limited oxidation of cellulose with Oxone $\square$ in water. <i>RSC Advances</i> , <b>2017</b> , 7, 40600-40607	3.7	5
66	Light scattering in poly(vinyl alcohol) hydrogels reinforced with nanocellulose for ophthalmic use. <i>Optical Materials Express</i> , <b>2017</b> , 7, 2824	2.6	17
65	Cellulose Nanofibers Prepared via Pretreatment Based on Oxone Oxidation. <i>Molecules</i> , <b>2017</b> , 22,	4.8	3
64	Feasibility of using DNA-immobilized nanocellulose-based immunoabsorbent for systemic lupus erythematosus plasmapheresis. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 143, 1-6	6	12
63	Transition from Bioinert to Bioactive Material by Tailoring the Biological Cell Response to Carboxylated Nanocellulose. <i>Biomacromolecules</i> , <b>2016</b> , 17, 1224-33	6.9	33
62	Poly(vinyl alcohol) Hydrogels Reinforced with Nanocellulose for Ophthalmic Applications: General Characteristics and Optical Properties. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 13094-13101	3.4	48
61	Mille-feuille paper: a novel type of filter architecture for advanced virus separation applications. <i>Materials Horizons</i> , <b>2016</b> , 3, 320-327	14.4	44
60	Preparation of Porous Cellulose Beads via Introduction of Diamine Spacers. <i>Langmuir</i> , <b>2016</b> , 32, 5600-7	4	29
59	Strategies for Tailoring the Pore-Size Distribution of Virus Retention Filter Papers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 13759-67	9.5	41
58	Hyperelastic Nanocellulose-Reinforced Hydrogel of High Water Content for Ophthalmic Applications. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 2072-2079	5.5	53
57	Citric Acid Cross-Linked Nanocellulose-Based Paper for Size-Exclusion Nanofiltration. <i>ACS Biomaterials Science and Engineering</i> , <b>2015</b> , 1, 271-276	5.5	73
56	Susceptibility of $\beta$ - and $\delta$ -Dominated Cellulose to TEMPO-Mediated Oxidation. <i>Biomacromolecules</i> , <b>2015</b> , 16, 1643-9	6.9	20

55	Characterization of dielectric properties of nanocellulose from wood and algae for electrical insulator applications. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 5911-7	3.4	69
54	Surface Chemistry of Nanocellulose Fibers Directs Monocyte/Macrophage Response. <i>Biomacromolecules</i> , <b>2015</b> , 16, 2787-95	6.9	46
53	Nanocellulose from green algae modulates the in vitro inflammatory response of monocytes/macrophages. <i>Cellulose</i> , <b>2015</b> , 22, 3673-3688	5.5	28
52	Removal of xenotropic murine leukemia virus by nanocellulose based filter paper. <i>Biologicals</i> , <b>2015</b> , 43, 452-6	1.8	60
51	Aspirin degradation in surface-charged TEMPO-oxidized mesoporous crystalline nanocellulose. <i>International Journal of Pharmaceutics</i> , <b>2014</b> , 461, 74-81	6.5	26
50	Tailoring porosities and electrochemical properties of composites composed of microfibrillated cellulose and polypyrrole. <i>RSC Advances</i> , <b>2014</b> , 4, 8489-8497	3.7	15
49	Convenient one-pot formation of 2,3-dialdehyde cellulose beads via periodate oxidation of cellulose in water. <i>Biomacromolecules</i> , <b>2014</b> , 15, 1928-32	6.9	70
48	Translational study between structure and biological response of nanocellulose from wood and green algae. <i>RSC Advances</i> , <b>2014</b> , 4, 2892-2903	3.7	107
47	Is there a future for electrochemically assisted hemodialysis? Focus on the application of polypyrrole-nanocellulose composites. <i>Nanomedicine</i> , <b>2014</b> , 9, 1095-110	5.6	14
46	Cooxidant-free TEMPO-mediated oxidation of highly crystalline nanocellulose in water. <i>RSC Advances</i> , <b>2014</b> , 4, 52289-52298	3.7	48
45	On the pore forming mechanism of Upsalite, a micro- and mesoporous magnesium carbonate. <i>Microporous and Mesoporous Materials</i> , <b>2014</b> , 190, 99-104	5.3	29
44	A size-exclusion nanocellulose filter paper for virus removal. <i>Advanced Healthcare Materials</i> , <b>2014</b> , 3, 1546-50, 1524	10.1	156
43	Mesoporous calcium carbonate as a phase stabilizer of amorphous celecoxib--an approach to increase the bioavailability of poorly soluble pharmaceutical substances. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 1469-76	10.1	22
42	Membrane characterization and solute diffusion in porous composite nanocellulose membranes for hemodialysis. <i>Cellulose</i> , <b>2013</b> , 20, 2959-2970	5.5	53
41	Viscoelastic properties of cross-linked polyvinyl alcohol and surface-oxidized cellulose whisker hydrogels. <i>Cellulose</i> , <b>2013</b> , 20, 1369-1376	5.5	35
40	Drug Solubility: Mesoporous Calcium Carbonate as a Phase Stabilizer of Amorphous Celecoxib [An Approach to Increase the Bioavailability of Poorly Soluble Pharmaceutical Substances (Adv. Healthcare Mater. 11/2013)]. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 1414-1414	10.1	
39	A template-free, ultra-adsorbing, high surface area carbonate nanostructure. <i>PLoS ONE</i> , <b>2013</b> , 8, e68486	3.7	45
38	Current status and future prospects of nanotechnology in cosmetics. <i>Progress in Materials Science</i> , <b>2012</b> , 57, 875-910	42.2	147

37	Influence of the nanocellulose raw material characteristics on the electrochemical and mechanical properties of conductive paper electrodes. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 4463-4472	4.3	37
36	In vitro and in vivo toxicity of rinsed and aged nanocellulose-polypyrrole composites. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 2128-38	5.4	74
35	Paper-Based Energy-Storage Devices Comprising Carbon Fiber-Reinforced Polypyrrole-Cladophora Nanocellulose Composite Electrodes. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 445-454	21.8	141
34	Energy Storage: Paper-Based Energy-Storage Devices Comprising Carbon Fiber-Reinforced Polypyrrole-Cladophora Nanocellulose Composite Electrodes (Adv. Energy Mater. 4/2012). <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 494-494	21.8	1
33	Haemocompatibility and ion exchange capability of nanocellulose polypyrrole membranes intended for blood purification. <i>Journal of the Royal Society Interface</i> , <b>2012</b> , 9, 1943-55	4.1	64
32	Surface transition on ice induced by the formation of a grain boundary. <i>PLoS ONE</i> , <b>2011</b> , 6, e24373	3.7	12
31	Toward flexible polymer and paper-based energy storage devices. <i>Advanced Materials</i> , <b>2011</b> , 23, 3751-69	2.4	790
30	Cellulose from cladophorales green algae: From environmental problem to high-tech composite materials. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 119, 2449-2460	2.9	176
29	Electrochemically Controlled Separation of DNA Oligomers with High Surface Area Conducting Paper Electrode. <i>ECS Transactions</i> , <b>2011</b> , 35, 135-142	1	8
28	Long Cycle Life Nanocellulose Polypyrrole Electrodes. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1312, 1		
27	High-capacity conductive nanocellulose paper sheets for electrochemically controlled extraction of DNA oligomers. <i>PLoS ONE</i> , <b>2011</b> , 6, e29243	3.7	54
26	A nanocellulose polypyrrole composite based on microfibrillated cellulose from wood. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 4178-82	3.4	235
25	Spatial mapping of elemental distributions in polypyrrole-cellulose nanofibers using energy-filtered transmission electron microscopy. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 13644-9	3.4	18
24	Influence of unsaturated carbonic acids on hemocompatibility and cytotoxicity of poly-vinylacetate based co-polymers. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2010</b> , 21, 1693-702	4.5	5
23	The Salt and Paper Battery; Ultrafast and All-polymer Based. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1197, 60		1
22	Multifunctional implant coatings providing possibilities for fast antibiotics loading with subsequent slow release. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2009</b> , 20, 1859-67	4.5	75
21	Bisphosphonate incorporation in surgical implant coatings by fast loading and co-precipitation at low drug concentrations. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2009</b> , 20, 2053-61	4.5	20
20	Influence of fractal surface dimension on the dissolution process of sparingly soluble CaCO <sub>3</sub> microparticles. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 94, 299-305	2.6	4

19	Potential controlled anion absorption in a novel high surface area composite of Cladophora cellulose and polypyrrole. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 3394-3401	6.7	51
18	A novel graded bioactive high adhesion implant coating. <i>Applied Surface Science</i> , <b>2009</b> , 255, 7723-7728	6.7	45
17	Assessing surface area evolution during biomimetic growth of hydroxyapatite coatings. <i>Langmuir</i> , <b>2009</b> , 25, 1292-5	4	29
16	Ultrafast all-polymer paper-based batteries. <i>Nano Letters</i> , <b>2009</b> , 9, 3635-9	11.5	391
15	Influence of the type of oxidant on anion exchange properties of fibrous Cladophora cellulose/polypyrrole composites. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 426-33	3.4	56
14	Ionic motion in polypyrrole-cellulose composites: trap release mechanism during potentiostatic reduction. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 4582-9	3.4	28
13	A novel high specific surface area conducting paper material composed of polypyrrole and Cladophora cellulose. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 12249-55	3.4	107
12	Order and Disorder in Powder Mixtures: Spatial Distribution Functions as Tools to Assess Powder Homogeneity. <i>Particle and Particle Systems Characterization</i> , <b>2008</b> , 25, 397-405	3.1	
11	Solubility of fractal nanoparticles. <i>Surface Science</i> , <b>2007</b> , 601, 315-319	1.8	54
10	Fractal Aspects of Powder Flow and Densification. <i>Particle and Particle Systems Characterization</i> , <b>2007</b> , 24, 223-228	3.1	5
9	Rheological properties of cellulose hydrogels prepared from Cladophora cellulose powder. <i>Food Hydrocolloids</i> , <b>2007</b> , 21, 267-272	10.6	50
8	Characterization of water in bacterial cellulose using dielectric spectroscopy and electron microscopy. <i>Polymer</i> , <b>2007</b> , 48, 7623-7631	3.9	132
7	Mesopore structure of microcrystalline cellulose tablets characterized by nitrogen adsorption and SEM: the influence on water-induced ionic conduction. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 15776-81	3.4	17
6	Influence of water-cellulose binding energy on stability of acetylsalicylic acid. <i>International Journal of Pharmaceutics</i> , <b>2006</b> , 323, 139-45	6.5	19
5	Sorption of nicotine to cellulose powders. <i>European Journal of Pharmaceutical Sciences</i> , <b>2004</b> , 22, 279-86	5.1	40
4	Moisture sorption by cellulose powders of varying crystallinity. <i>International Journal of Pharmaceutics</i> , <b>2004</b> , 269, 433-42	6.5	276
3	Capillary condensation of moisture in fractal pores of native cellulose powders. <i>Chemical Physics Letters</i> , <b>2004</b> , 393, 389-392	2.5	14
2	Fractal Dimension of Cellulose Powders Analyzed by Multilayer BET Adsorption of Water and Nitrogen. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 14378-14382	3.4	44

1 What to do with all these algae?. *Materials Letters*, **2002**, 57, 569-572

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