

Albert Mihranyan

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.

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	Toward flexible polymer and paper-based energy storage devices. <i>Advanced Materials</i> , 2011 , 23, 3751-69	24	790
89	Ultrafast all-polymer paper-based batteries. <i>Nano Letters</i> , 2009 , 9, 3635-9	11.5	391
88	Moisture sorption by cellulose powders of varying crystallinity. <i>International Journal of Pharmaceutics</i> , 2004 , 269, 433-42	6.5	276
87	A nanocellulose polypyrrole composite based on microfibrillated cellulose from wood. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 4178-82	3.4	235
86	Cellulose from cladophorales green algae: From environmental problem to high-tech composite materials. <i>Journal of Applied Polymer Science</i> , 2011 , 119, 2449-2460	2.9	176
85	A size-exclusion nanocellulose filter paper for virus removal. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1546-50, 1524	10.1	156
84	Current status and future prospects of nanotechnology in cosmetics. <i>Progress in Materials Science</i> , 2012 , 57, 875-910	42.2	147
83	Paper-Based Energy-Storage Devices Comprising Carbon Fiber-Reinforced Polypyrrole-Cladophora Nanocellulose Composite Electrodes. <i>Advanced Energy Materials</i> , 2012 , 2, 445-454	21.8	141
82	Characterization of water in bacterial cellulose using dielectric spectroscopy and electron microscopy. <i>Polymer</i> , 2007 , 48, 7623-7631	3.9	132
81	Translational study between structure and biological response of nanocellulose from wood and green algae. <i>RSC Advances</i> , 2014 , 4, 2892-2903	3.7	107
80	A novel high specific surface area conducting paper material composed of polypyrrole and Cladophora cellulose. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 12249-55	3.4	107
79	Multifunctional implant coatings providing possibilities for fast antibiotics loading with subsequent slow release. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 1859-67	4.5	75
78	In vitro and in vivo toxicity of rinsed and aged nanocellulose-polypyrrole composites. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 2128-38	5.4	74
77	Citric Acid Cross-Linked Nanocellulose-Based Paper for Size-Exclusion Nanofiltration. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 271-276	5.5	73
76	Convenient one-pot formation of 2,3-dialdehyde cellulose beads via periodate oxidation of cellulose in water. <i>Biomacromolecules</i> , 2014 , 15, 1928-32	6.9	70
75	Characterization of dielectric properties of nanocellulose from wood and algae for electrical insulator applications. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 5911-7	3.4	69
74	Haemocompatibility and ion exchange capability of nanocellulose polypyrrole membranes intended for blood purification. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 1943-55	4.1	64

73	Removal of xenotropic murine leukemia virus by nanocellulose based filter paper. <i>Biologicals</i> , 2015 , 43, 452-6	1.8	60
72	Influence of the type of oxidant on anion exchange properties of fibrous Cladophora cellulose/polypyrrole composites. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 426-33	3.4	56
71	Solubility of fractal nanoparticles. <i>Surface Science</i> , 2007 , 601, 315-319	1.8	54
70	What to do with all these algae?. <i>Materials Letters</i> , 2002 , 57, 569-572	3.3	54
69	High-capacity conductive nanocellulose paper sheets for electrochemically controlled extraction of DNA oligomers. <i>PLoS ONE</i> , 2011 , 6, e29243	3.7	54
68	Membrane characterization and solute diffusion in porous composite nanocellulose membranes for hemodialysis. <i>Cellulose</i> , 2013 , 20, 2959-2970	5.5	53
67	Hyperelastic Nanocellulose-Reinforced Hydrogel of High Water Content for Ophthalmic Applications. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 2072-2079	5.5	53
66	Potential controlled anion absorption in a novel high surface area composite of Cladophora cellulose and polypyrrole. <i>Electrochimica Acta</i> , 2009 , 54, 3394-3401	6.7	51
65	Rheological properties of cellulose hydrogels prepared from Cladophora cellulose powder. <i>Food Hydrocolloids</i> , 2007 , 21, 267-272	10.6	50
64	Cooxidant-free TEMPO-mediated oxidation of highly crystalline nanocellulose in water. <i>RSC Advances</i> , 2014 , 4, 52289-52298	3.7	48
63	Poly(vinyl alcohol) Hydrogels Reinforced with Nanocellulose for Ophthalmic Applications: General Characteristics and Optical Properties. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 13094-13101	3.4	48
62	Strain-induced stiffening of nanocellulose-reinforced poly(vinyl alcohol) hydrogels mimicking collagenous soft tissues. <i>Soft Matter</i> , 2017 , 13, 3936-3945	3.6	47
61	Surface Chemistry of Nanocellulose Fibers Directs Monocyte/Macrophage Response. <i>Biomacromolecules</i> , 2015 , 16, 2787-95	6.9	46
60	A template-free, ultra-adsorbing, high surface area carbonate nanostructure. <i>PLoS ONE</i> , 2013 , 8, e68486	3.7	45
59	A novel graded bioactive high adhesion implant coating. <i>Applied Surface Science</i> , 2009 , 255, 7723-7728	6.7	45
58	Fractal Dimension of Cellulose Powders Analyzed by Multilayer BET Adsorption of Water and Nitrogen. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 14378-14382	3.4	44
57	Mille-feuille paper: a novel type of filter architecture for advanced virus separation applications. <i>Materials Horizons</i> , 2016 , 3, 320-327	14.4	44
56	Nanoparticle-loaded hydrogels as a pathway for enzyme-triggered drug release in ophthalmic applications. <i>International Journal of Pharmaceutics</i> , 2018 , 536, 73-81	6.5	44

55	Strategies for Tailoring the Pore-Size Distribution of Virus Retention Filter Papers. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13759-67	9.5	41
54	Sorption of nicotine to cellulose powders. <i>European Journal of Pharmaceutical Sciences</i> , 2004 , 22, 279-86	5.1	40
53	Influence of the nanocellulose raw material characteristics on the electrochemical and mechanical properties of conductive paper electrodes. <i>Journal of Materials Science</i> , 2012 , 47, 4463-4472	4.3	37
52	Viscoelastic properties of cross-linked polyvinyl alcohol and surface-oxidized cellulose whisker hydrogels. <i>Cellulose</i> , 2013 , 20, 1369-1376	5.5	35
51	Transition from Bioinert to Bioactive Material by Tailoring the Biological Cell Response to Carboxylated Nanocellulose. <i>Biomacromolecules</i> , 2016 , 17, 1224-33	6.9	33
50	On the pore forming mechanism of Upsalite, a micro- and mesoporous magnesium carbonate. <i>Microporous and Mesoporous Materials</i> , 2014 , 190, 99-104	5.3	29
49	Assessing surface area evolution during biomimetic growth of hydroxyapatite coatings. <i>Langmuir</i> , 2009 , 25, 1292-5	4	29
48	Preparation of Porous Cellulose Beads via Introduction of Diamine Spacers. <i>Langmuir</i> , 2016 , 32, 5600-7	4	29
47	Comparative Analysis of Dry and Wet Porometry Methods for Characterization of Regular and Cross-Linked Virus Removal Filter Papers. <i>Membranes</i> , 2018 , 9,	3.8	29
46	Nanocellulose from green algae modulates the in vitro inflammatory response of monocytes/macrophages. <i>Cellulose</i> , 2015 , 22, 3673-3688	5.5	28
45	Ionic motion in polypyrrole-cellulose composites: trap release mechanism during potentiostatic reduction. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 4582-9	3.4	28
44	On importance of impurities, potential leachables and extractables in algal nanocellulose for biomedical use. <i>Carbohydrate Polymers</i> , 2017 , 172, 11-19	10.3	27
43	Aspirin degradation in surface-charged TEMPO-oxidized mesoporous crystalline nanocellulose. <i>International Journal of Pharmaceutics</i> , 2014 , 461, 74-81	6.5	26
42	Protein-Nanocellulose Interactions in Paper Filters for Advanced Separation Applications. <i>Langmuir</i> , 2017 , 33, 4729-4736	4	24
41	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> , 2013 , 2, 1469-76	10.1	22
40	Susceptibility of H and D Dominated Cellulose to TEMPO-Mediated Oxidation. <i>Biomacromolecules</i> , 2015 , 16, 1643-9	6.9	20
39	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> , 2009 , 20, 2053-61	4.5	20
38	Influence of water-cellulose binding energy on stability of acetylsalicylic acid. <i>International Journal of Pharmaceutics</i> , 2006 , 323, 139-45	6.5	19

37	Spatial mapping of elemental distributions in polypyrrole-cellulose nanofibers using energy-filtered transmission electron microscopy. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 13644-9	3.4	18
36	Light scattering in poly(vinyl alcohol) hydrogels reinforced with nanocellulose for ophthalmic use. <i>Optical Materials Express</i> , 2017 , 7, 2824	2.6	17
35	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> , 2006 , 110, 15776-81	3.4	17
34	Growth media filtration using nanocellulose-based virus removal filter for upstream biopharmaceutical processing. <i>Journal of Membrane Science</i> , 2019 , 572, 464-474	9.6	17
33	High-Performance Virus Removal Filter Paper for Drinking Water Purification. <i>Global Challenges</i> , 2018 , 2, 1800031	4.3	16
32	Scalable and Sustainable Total Pathogen Removal Filter Paper for Point-of-Use Drinking Water Purification in Bangladesh. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14373-14383	8.3	16
31	Tailoring porosities and electrochemical properties of composites composed of microfibrillated cellulose and polypyrrole. <i>RSC Advances</i> , 2014 , 4, 8489-8497	3.7	15
30	Significance of Brownian Motion for Nanoparticle and Virus Capture in Nanocellulose-Based Filter Paper. <i>Membranes</i> , 2018 , 8,	3.8	15
29	Is there a future for electrochemically assisted hemodialysis? Focus on the application of polypyrrole-nanocellulose composites. <i>Nanomedicine</i> , 2014 , 9, 1095-110	5.6	14
28	Capillary condensation of moisture in fractal pores of native cellulose powders. <i>Chemical Physics Letters</i> , 2004 , 393, 389-392	2.5	14
27	Virus removal filtration of chemically defined Chinese Hamster Ovary cells medium with nanocellulose-based size exclusion filter. <i>Biologicals</i> , 2019 , 59, 62-67	1.8	12
26	Sulfonated nanocellulose beads as potential immunosorbents. <i>Cellulose</i> , 2018 , 25, 1899-1910	5.5	12
25	Feasibility of using DNA-immobilized nanocellulose-based immunoabsorbent for systemic lupus erythematosus plasmapheresis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 143, 1-6	6	12
24	Surface transition on ice induced by the formation of a grain boundary. <i>PLoS ONE</i> , 2011 , 6, e24373	3.7	12
23	Biocompatibility of Nanocellulose-Reinforced PVA Hydrogel with Human Corneal Epithelial Cells for Ophthalmic Applications. <i>Journal of Functional Biomaterials</i> , 2019 , 10,	4.8	12
22	Potentially Immunogenic Contaminants in Wood-Based and Bacterial Nanocellulose: Assessment of Endotoxin and (1,3)- β -Glucan Levels. <i>Biomacromolecules</i> , 2018 , 19, 150-157	6.9	12
21	Blood Compatibility of Sulfonated Cladophora Nanocellulose Beads. <i>Molecules</i> , 2018 , 23,	4.8	11
20	Nanocellulose-Based Nanoporous Filter Paper for Virus Removal Filtration of Human Intravenous Immunoglobulin. <i>ACS Applied Nano Materials</i> , 2019 , 2, 6352-6359	5.6	11

19	Immediate-Release Nifedipine Binary Dry Powder Mixtures with Nanocellulose Featuring Enhanced Solubility and Dissolution Rate. <i>Pharmaceutics</i> , 2019 , 11,	6.4	8
18	Amorphisation of Free Acid Ibuprofen and Other Profens in Mixtures with Nanocellulose: Dry Powder Formulation Strategy for Enhanced Solubility. <i>Pharmaceutics</i> , 2019 , 11,	6.4	8
17	Electrochemically Controlled Separation of DNA Oligomers with High Surface Area Conducting Paper Electrode. <i>ECS Transactions</i> , 2011 , 35, 135-142	1	8
16	Favored surface-limited oxidation of cellulose with Oxone [®] in water. <i>RSC Advances</i> , 2017 , 7, 40600-40607	3.7	5
15	Influence of unsaturated carbonic acids on hemocompatibility and cytotoxicity of poly-vinylacetate based co-polymers. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 1693-702	4.5	5
14	Fractal Aspects of Powder Flow and Densification. <i>Particle and Particle Systems Characterization</i> , 2007 , 24, 223-228	3.1	5
13	Spectroscopic and Physicochemical Characterization of Sulfonated Cladophora Cellulose Beads. <i>Langmuir</i> , 2018 , 34, 11121-11125	4	5
12	Influence of fractal surface dimension on the dissolution process of sparingly soluble CaCO ₃ microparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 94, 299-305	2.6	4
11	Two-Step Size-Exclusion Nanofiltration of Prothrombin Complex Concentrate Using Nanocellulose-Based Filter Paper. <i>Biomedicines</i> , 2020 , 8,	4.8	3
10	Dissolution Behavior of Flufenamic Acid in Heated Mixtures with Nanocellulose. <i>Molecules</i> , 2020 , 25,	4.8	3
9	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> , 2020 , 12,	6.4	3
8	Cellulose Nanofibers Prepared via Pretreatment Based on Oxone Oxidation. <i>Molecules</i> , 2017 , 22,	4.8	3
7	Aggregate Removal Nanofiltration of Human Serum Albumin Solution Using Nanocellulose-Based Filter Paper. <i>Biomedicines</i> , 2020 , 8,	4.8	3
6	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> , 2012 , 2, 494-494	21.8	1
5	The Salt and Paper Battery; Ultrafast and All-polymer Based. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1197, 60		1
4	Would 20 nm Filtered Fetal Bovine Serum-Supplemented Media Support Growth of CHO and HEK-293 Cells?. <i>ACS Applied Bio Materials</i> , 2020 , 3, 8344-8351	4.1	0
3	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> , 2013 , 2, 1414-1414	10.1	
2	Long Cycle Life Nanocellulose Polypyrrole Electrodes. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1312, 1		

- 1 Order and Disorder in Powder Mixtures: Spatial Distribution Functions as Tools to Assess Powder Homogeneity. *Particle and Particle Systems Characterization*, **2008**, 25, 397-405 3.1