

Natlia M Alves

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.

80 papers	3,706 citations	34 h-index	60 g-index
85 ext. papers	4,054 ext. citations	5 avg, IF	5.61 L-index

#	Paper	IF	Citations
80	Adhesive and biodegradable membranes made of sustainable catechol-functionalized marine collagen and chitosan.. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022 , 213, 112409	6	3
79	Poly(Lactic Acid)/Graphite Nanoplatelet Nanocomposite Filaments for Ligament Scaffolds. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
78	3D printing of graphene-based polymeric nanocomposites for biomedical applications. <i>Functional Composite Materials</i> , 2021 , 2,	1.7	9
77	3D-printed cryomilled poly(E-caprolactone)/graphene composite scaffolds for bone tissue regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 , 109, 961-972	3.5	8
76	Polymeric biomaterials inspired by marine mussel adhesive proteins. <i>Reactive and Functional Polymers</i> , 2021 , 159, 104802	4.6	5
75	Spin-coated freestanding films for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 3778-3799	7.3	7
74	Spin-Coated Polysaccharide-Based Multilayered Freestanding Films with Adhesive and Bioactive Moieties. <i>Molecules</i> , 2020 , 25,	4.8	7
73	Biodegradable polymer nanocomposites for ligament/tendon tissue engineering. <i>Journal of Nanobiotechnology</i> , 2020 , 18, 23	9.4	44
72	Bioactive and adhesive properties of multilayered coatings based on catechol-functionalized chitosan/hyaluronic acid and bioactive glass nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2020 , 157, 119-134	7.9	13
71	Layer-by-layer films based on catechol-modified polysaccharides produced by dip- and spin-coating onto different substrates. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020 , 108, 1412-1427	3.5	9
70	Antibacterial free-standing polysaccharide composite films inspired by the sea. <i>International Journal of Biological Macromolecules</i> , 2019 , 133, 933-944	7.9	13
69	Optimization of silver-containing bioglass nanoparticles envisaging biomedical applications. <i>Materials Science and Engineering C</i> , 2019 , 94, 161-168	8.3	28
68	Adhesive Free-standing multilayer films containing sulfated levan for biomedical applications. <i>Acta Biomaterialia</i> , 2018 , 69, 183-195	10.8	42
67	Nanostructured Biopolymer/Few-Layer Graphene Freestanding Films with Enhanced Mechanical and Electrical Properties. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1700316	3.9	5
66	Novel Antibacterial and Bioactive Silicate Glass Nanoparticles for Biomedical Applications. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700855	3.5	6
65	Graphene-polymer nanocomposites for biomedical applications. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 687-700	3.2	51
64	Nacre-inspired nanocomposites produced using layer-by-layer assembly: Design strategies and biomedical applications. <i>Materials Science and Engineering C</i> , 2017 , 76, 1263-1273	8.3	22

63	Biomedical films of graphene nanoribbons and nanoflakes with natural polymers. <i>RSC Advances</i> , 2017 , 7, 27578-27594	3.7	12
62	Antibacterial bioadhesive layer-by-layer coatings for orthopedic applications. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 5385-5393	7.3	41
61	Chitosan nanocomposites based on distinct inorganic fillers for biomedical applications. <i>Science and Technology of Advanced Materials</i> , 2016 , 17, 626-643	7.1	51
60	Adhesive Bioactive Coatings Inspired by Sea Life. <i>Langmuir</i> , 2016 , 32, 560-8	4	32
59	High performance free-standing films by layer-by-layer assembly of graphene flakes and ribbons with natural polymers. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 7718-7730	7.3	12
58	Biomimetic polysaccharide/bioactive glass nanoparticles multilayer membranes for guided tissue regeneration. <i>RSC Advances</i> , 2016 , 6, 75988-75999	3.7	22
57	pH Responsiveness of Multilayered Films and Membranes Made of Polysaccharides. <i>Langmuir</i> , 2015 , 31, 11318-28	4	46
56	Confinement effects on the dynamic behavior of poly(D,L-lactic acid) upon incorporation in β -cyclodextrin. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 6972-81	3.4	8
55	Nanostructured polymeric coatings based on chitosan and dopamine-modified hyaluronic acid for biomedical applications. <i>Small</i> , 2014 , 10, 2459-69	11	131
54	Cell interactions with superhydrophilic and superhydrophobic surfaces. <i>Journal of Adhesion Science and Technology</i> , 2014 , 28, 843-863	2	88
53	Homogeneous poly(L-lactic acid)/chitosan blended films. <i>Polymers for Advanced Technologies</i> , 2014 , 25, 1492-1500	3.2	4
52	Inclusion complexes of β -cyclodextrins with poly(d,l-lactic acid): structural, characterization, and glass transition dynamics. <i>Colloid and Polymer Science</i> , 2014 , 292, 863-871	2.4	8
51	Biom mineralization in chitosan/Bioglass® composite membranes under different dynamic mechanical conditions. <i>Materials Science and Engineering C</i> , 2013 , 33, 4480-3	8.3	10
50	Stimuli-Responsive Surfaces for Biomedical Applications 2013 , 63-87		1
49	Development of new poly(ϵ -caprolactone)/chitosan films. <i>Polymer International</i> , 2013 , 62, 1425-1432	3.3	2
48	Chitosan membranes containing micro or nano-size bioactive glass particles: evolution of biom mineralization followed by in situ dynamic mechanical analysis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 20, 173-83	4.1	85
47	Membranes of poly(dl-lactic acid)/Bioglass® with asymmetric bioactivity for biomedical applications. <i>Journal of Bioactive and Compatible Polymers</i> , 2012 , 27, 429-440	2	11
46	Cell behaviour in new poly(l-lactic acid) films with crystallinity gradients. <i>Materials Letters</i> , 2012 , 87, 105-108	3.98	8

45 Surfaces Inducing Biomineralization **2012**, 333-351

44 Surfaces with Extreme Wettability Ranges for Biomedical Applications **2012**, 237-257 1

43 Bioactivity and viscoelastic characterization of chitosan/bioglass \square composite membranes. *Macromolecular Bioscience*, **2012**, 12, 1106-13 5.5 26

42 Chemical modification of bioinspired superhydrophobic polystyrene surfaces to control cell attachment/proliferation. *Soft Matter*, **2011**, 7, 8932 3.6 88

41 Polymer Patterns and Scaffolds for Biomedical Applications and Tissue Engineering **2011**, 291-302

40 Preparation and Characterization of New Biodegradable Films Made from Poly(L-Lactic Acid) and Chitosan Blends Using a Common Solvent. *Journal of Macromolecular Science - Physics*, **2011**, 50, 1121-1129 1.4 4

39 Dual responsive nanostructured surfaces for biomedical applications. *Langmuir*, **2011**, 27, 8415-23 4 42

38 Chitosan/poly(epsilon-caprolactone) blend scaffolds for cartilage repair. *Biomaterials*, **2011**, 32, 1068-79 15.6 182

37 Bioactivity and Viscoelastic Characterization in Physiological Simulated Conditions of Chitosan/Bioglass \square Composite Membranes. *Materials Science Forum*, **2010**, 636-637, 26-30 0.4 3

36 Designing biomaterials based on biomineralization of bone. *Journal of Materials Chemistry*, **2010**, 20, 2911 134

35 New Thermo-responsive Hydrogels Based on Poly (N-isopropylacrylamide)/ Hyaluronic Acid Semi-interpenetrated Polymer Networks: Swelling Properties and Drug Release Studies. *Journal of Bioactive and Compatible Polymers*, **2010**, 25, 169-184 2 45

34 Crosslink effect and albumin adsorption onto chitosan/alginate multilayered systems: an in situ QCM-D study. *Macromolecular Bioscience*, **2010**, 10, 1444-55 5.5 63

33 New poly(epsilon-caprolactone)/chitosan blend fibers for tissue engineering applications. *Acta Biomaterialia*, **2010**, 6, 418-28 10.8 93

32 Nanostructured self-assembled films containing chitosan fabricated at neutral pH. *Carbohydrate Polymers*, **2010**, 80, 570-573 10.3 52

31 Controlling cell behavior through the design of polymer surfaces. *Small*, **2010**, 6, 2208-20 11 257

30 Nanostructured multilayer coatings combining chitosan with bioactive glass nanoparticles. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 1741-8 1.3 55

29 Stimuli-Responsive Thin Coatings Using Elastin-Like Polymers for Biomedical Applications. *Advanced Functional Materials*, **2009**, 19, 3210-3218 15.6 78

28 Bioinspired superhydrophobic poly(L-lactic acid) surfaces control bone marrow derived cells adhesion and proliferation. *Journal of Biomedical Materials Research - Part A*, **2009**, 91, 480-8 5.4 87

27	Self assembling and crosslinking of polyelectrolyte multilayer films of chitosan and alginate studied by QCM and IR spectroscopy. <i>Macromolecular Bioscience</i> , 2009 , 9, 776-85	5.5	111
26	pH-Responsive biomineralization onto chitosan grafted biodegradable substrates. <i>Journal of Materials Chemistry</i> , 2008 , 18, 2493		45
25	Chitosan derivatives obtained by chemical modifications for biomedical and environmental applications. <i>International Journal of Biological Macromolecules</i> , 2008 , 43, 401-14	7.9	594
24	Towards bioinspired superhydrophobic poly(L-lactic acid) surfaces using phase inversion-based methods. <i>Bioinspiration and Biomimetics</i> , 2008 , 3, 034003	2.6	31
23	Chitosan coated alginate beads containing poly(N-isopropylacrylamide) for dual-stimuli-responsive drug release. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 84, 595-603	3.5	106
22	In vitro monitoring of surface mechanical properties of poly(L-lactic acid) using microhardness. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 3860-3864	2.9	8
21	Thermally Responsive Biomineralization on Biodegradable Substrates. <i>Advanced Functional Materials</i> , 2007 , 17, 3312-3318	15.6	60
20	Microhardness of starch based biomaterials in simulated physiological conditions. <i>Acta Biomaterialia</i> , 2007 , 3, 69-76	10.8	16
19	Glass transition of semi-crystalline PLLA with different morphologies as studied by dynamic mechanical analysis. <i>Colloid and Polymer Science</i> , 2007 , 285, 575-580	2.4	34
18	Drug release of pH/temperature-responsive calcium alginate/poly(N-isopropylacrylamide) semi-IPN beads. <i>Macromolecular Bioscience</i> , 2006 , 6, 358-63	5.5	138
17	Study of the Molecular Mobility in Polymers with the Thermally Stimulated Recovery Technique. A Review. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2005 , 45, 99-124		4
16	Glass transition dynamics and structural relaxation of PLLA studied by DSC: Influence of crystallinity. <i>Polymer</i> , 2005 , 46, 8258-8265	3.9	121
15	Enthalpy relaxation studies in polymethyl methacrylate networks with different crosslinking degrees. <i>Polymer</i> , 2005 , 46, 491-504	3.9	56
14	Morphology and mechanical properties of injection molded poly(ethylene terephthalate). <i>Polymer Engineering and Science</i> , 2004 , 44, 2174-2184	2.3	34
13	Departure from the Vogel behaviour in the glass transition. Thermally stimulated recovery, creep and dynamic mechanical analysis studies. <i>Polymer</i> , 2004 , 45, 1007-1017	3.9	49
12	Analysis of the thermal environment inside the furnace of a dynamic mechanical analyser. <i>Polymer Testing</i> , 2003 , 22, 471-481	4.5	11
11	Influence of experimental variables on thermally stimulated recovery results: analysis of simulations and real data on a polymeric system. <i>Polymer International</i> , 2002 , 51, 434-442	3.3	3
10	Molecular mobility in polymers studied with thermally stimulated recovery. II. Study of the glass transition of a semicrystalline PET and comparison with DSC and DMA results. <i>Polymer</i> , 2002 , 43, 3627-3633	3.9	36

9	Glass transition and structural relaxation in semi-crystalline poly(ethylene terephthalate): a DSC study. <i>Polymer</i> , 2002 , 43, 4111-4122	3.9	125
8	Molecular mobility in polymers studied with thermally stimulated recovery. <i>Magyar Árvad Kélemlék</i> , 2002 , 70, 633-649	0	10
7	The Dynamics of the Glass Transition in a Semicrystalline PET Studied by Mechanical and Dielectric Spectroscopic Methods. <i>Defect and Diffusion Forum</i> , 2002 , 206-207, 131-134	0.7	4
6	Molecular mobility in a thermoset as seen by TSR and DMA near Tg. <i>Materials Research Innovations</i> , 2001 , 4, 170-178	1.9	12
5	Structural relaxation in a polyester thermoset as seen by thermally stimulated recovery. <i>Polymer</i> , 2001 , 42, 4173-4180	3.9	18
4	Temperature correction of dynamic mechanical and thermomechanical analysers during heating, cooling and isothermal experiments. <i>Thermochimica Acta</i> , 2000 , 346, 133-145	2.9	6
3	Comparing dielectric measurements on poly(ethylene terephthalate) at constant heating rates with isothermal measurements. <i>Polymer</i> , 1999 , 40, 2675-2679	3.9	4
2	Molecular motions in a polycarbonate composite as studied by thermally stimulated recovery and dynamic mechanical analysis. <i>Macromolecular Symposia</i> , 1999 , 148, 437-454	0.8	11
1	The Potential of Beeswax Colloidal Emulsion/Films for Hydrophobization of Natural Fibers Prior to NTRM Manufacturing. <i>Key Engineering Materials</i> , 916, 82-90	0.4	0