

Pedro L Almeida

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

1,340
citations

19
h-index

34
g-index

77
ext. papers

1,618
ext. citations

4.8
avg, IF

4.81
L-index

#	Paper	IF	Citations
71	Bacterial cellulose: a versatile biopolymer for wound dressing applications. <i>Microbial Biotechnology</i> , 2019 , 12, 586-610	6.3	199
70	Cellulose-Based Biomimetics and Their Applications. <i>Advanced Materials</i> , 2018 , 30, e1703655	24	110
69	Mind the Microgap in Iridescent Cellulose Nanocrystal Films. <i>Advanced Materials</i> , 2017 , 29, 1603560	24	105
68	Structural Color and Iridescence in Transparent Sheared Cellulosic Films. <i>Macromolecular Chemistry and Physics</i> , 2013 , 214, 25-32	2.6	71
67	Transparent, conductive ZnO:Al thin film deposited on polymer substrates by RF magnetron sputtering. <i>Surface and Coatings Technology</i> , 2002 , 151-152, 247-251	4.4	59
66	Dielectric studies of the nematic mixture E7 on a hydroxypropylcellulose substrate. <i>Liquid Crystals</i> , 2002 , 29, 429-441	2.3	44
65	A cellulose liquid crystal motor: a steam engine of the second kind. <i>Scientific Reports</i> , 2013 , 3, 1028	4.9	40
64	Oxidative desulfurization strategies using Keggin-type polyoxometalate catalysts: Biphasic versus solvent-free systems. <i>Catalysis Today</i> , 2019 , 333, 226-236	5.3	33
63	Desulfurization process conciliating heterogeneous oxidation and liquid extraction: Organic solvent or centrifugation/water?. <i>Applied Catalysis A: General</i> , 2017 , 542, 359-367	5.1	27
62	Sensing surface morphology of biofibers by decorating spider silk and cellulosic filaments with nematic microdroplets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 1174-9	11.5	27
61	Mesoporous nanosilica-supported polyoxomolybdate as catalysts for sustainable desulfurization. <i>Microporous and Mesoporous Materials</i> , 2019 , 275, 163-171	5.3	27
60	Molecular mobility, composition and structure analysis in glycerol plasticised chitosan films. <i>Food Chemistry</i> , 2014 , 144, 2-8	8.5	27
59	Electro-optical light scattering shutter using electrospun cellulose-based nano- and microfibers. <i>Applied Physics Letters</i> , 2009 , 95, 043501	3.4	26
58	Marine Environmental Plastic Pollution: Mitigation by Microorganism Degradation and Recycling Valorization. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	24
57	Large-pore silica spheres as support for samarium-coordinated undecamolybdophosphate: Oxidative desulfurization of diesels. <i>Fuel</i> , 2020 , 259, 116213	7.1	23
56	Liquid crystal necklaces: cholesteric drops threaded by thin cellulose fibres. <i>Soft Matter</i> , 2013 , 9, 7928	3.6	22
55	A cellulosic liquid crystal pool for cellulose nanocrystals: Structure and molecular dynamics at high shear rates. <i>European Polymer Journal</i> , 2015 , 72, 72-81	5.2	21

54	Influence of the Strain on the Electrical Resistance of Zinc Oxide Doped Thin Film Deposited on Polymer Substrates. <i>Advanced Engineering Materials</i> , 2002 , 4, 610-612	3.5	20
53	Carbon Nanotubes as Reinforcement of Cellulose Liquid Crystalline Responsive Networks. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21005-9	9.5	19
52	High ionicity ionic liquids (HILs): comparing the effect of ethylsulfonate and ethylsulfate anions. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 18138-47	3.6	19
51	Cross-linked hydroxypropylcellulose films: mechanical behaviour and electro-optical properties of PDLC type cells. <i>Optical Materials</i> , 2002 , 20, 97-100	3.3	19
50	Water-Based Cellulose Liquid Crystal System Investigated by Rheo-NMR. <i>Macromolecules</i> , 2013 , 46, 4296-4302	5.3	18
49	Extraction of Cellulose Nanocrystals with Structure I and II and Their Applications for Reduction of Graphene Oxide and Nanocomposite Elaboration. <i>Waste and Biomass Valorization</i> , 2019 , 10, 1913-1927	3.2	18
48	A novel red emitting material based on polyoxometalate@periodic mesoporous organosilica. <i>Microporous and Mesoporous Materials</i> , 2016 , 234, 248-256	5.3	17
47	Light shutters from nanocrystalline cellulose rods in a nematic liquid crystal. <i>Liquid Crystals</i> , 2013 , 40, 769-773	2.3	14
46	Thermally Stimulated Depolarization Currents and Optical Transmission on Liquid Crystal/Cellulose Derivative Composite Devices. <i>Molecular Crystals and Liquid Crystals</i> , 2003 , 391, 1-11	0.5	14
45	The ferroelectric properties of piezoelectric ceramic/polymer composites for acoustic emission sensors. <i>Polymer Engineering and Science</i> , 1999 , 39, 483-492	2.3	14
44	Perspectives on the electrically induced properties of electrospun cellulose/liquid crystal devices. <i>Journal of Electrostatics</i> , 2011 , 69, 623-630	1.7	13
43	Reversible water driven chirality inversion in cellulose-based helices isolated from Erodium awns. <i>Soft Matter</i> , 2019 , 15, 2838-2847	3.6	12
42	Electrical properties of a liquid crystal dispersed in an electrospun cellulose acetate network. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 155-163	3	12
41	Filling in the voids of electrospun hydroxypropyl cellulose network: Dielectric investigations. <i>European Physical Journal Plus</i> , 2018 , 133, 1	3.1	12
40	From Cellulosic Based Liquid Crystalline Sheared Solutions to 1D and 2D Soft Materials. <i>Materials</i> , 2014 , 7, 4601-4627	3.5	12
39	Two negative minima of the first normal stress difference in a cellulose-based cholesteric liquid crystal: Helix uncoiling. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017 , 55, 821-830	2.6	11
38	Rheo-NMR study of water-based cellulose liquid crystal system at high shear rates. <i>Polymer</i> , 2015 , 65, 18-25	3.9	11
37	Bactericidal efficacy of molybdenum oxide nanoparticles against antimicrobial-resistant pathogens. <i>Journal of Medical Microbiology</i> , 2018 , 67, 1042-1046	3.2	11

36	Waterborne polyurethane/Fe ₃ O ₄ -synthetic talc composites: synthesis, characterization, and magnetic properties. <i>Polymer Bulletin</i> , 2018 , 75, 1915-1930	2.4	11
35	Polyoxometalate@Periodic mesoporous organosilicas as active materials for oxidative desulfurization of diesels. <i>Microporous and Mesoporous Materials</i> , 2020 , 302, 110193	5.3	10
34	Real-time rheology of actively growing bacteria. <i>Physical Review E</i> , 2013 , 87,	2.4	10
33	Designing silica xerogels containing RTIL for CO capture and CO/CH separation: Influence of ILs anion, cation and cation side alkyl chain length and ramification. <i>Journal of Environmental Management</i> , 2020 , 268, 110340	7.9	9
32	Living bacteria rheology: population growth, aggregation patterns, and collective behavior under different shear flows. <i>Physical Review E</i> , 2014 , 90, 022720	2.4	9
31	Electro-Optical Properties of Cellulose Based PDLC Type Cells: Dependence on the Type of Diisocyanate Cross-Linking Agent Used. <i>Molecular Crystals and Liquid Crystals</i> , 2001 , 368, 121-128		9
30	Sensing and tuning microfiber chirality with nematic chirogyral effect. <i>Physical Review E</i> , 2016 , 93, 032703	2.4	8
29	Liquid crystal beads constrained on thin cellulosic fibers: electric field induced microrotors and N ₂ transition. <i>Soft Matter</i> , 2012 , 8, 3634	3.6	8
28	Deuterium NMR Study of Orientational Order in Cellulosic Network Microfibers. <i>Macromolecules</i> , 2010 , 43, 5749-5755	5.5	8
27	Deformation of isotropic and anisotropic liquid droplets dispersed in a cellulose liquid crystalline derivative. <i>Cellulose</i> , 2009 , 16, 427-434	5.5	8
26	Flexible cellulose derivative PDLC type cells. <i>Liquid Crystals</i> , 2002 , 29, 475-477	2.3	8
25	Effective Zinc-Substituted Keggin Composite To Catalyze the Removal of Sulfur from Real Diesels under a Solvent-Free System. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 18540-18549	3.9	7
24	Enhancement of CO ₂ /N ₂ selectivity and CO ₂ uptake by tuning concentration and chemical structure of imidazolium-based ILs immobilized in mesoporous silica. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103740	6.8	7
23	Electro-optical cells using a cellulose derivative and cholesteric liquid crystals. <i>Liquid Crystals</i> , 2008 , 35, 1345-1350	2.3	7
22	Tunable topographical cellulose matrices for electro-optical liquid crystal cells. <i>Opto-electronics Review</i> , 2006 , 14,	2.4	7
21	Effect of cellulose nanocrystals in a cellulosic liquid crystal behaviour under low shear (regime I): Structure and molecular dynamics. <i>European Polymer Journal</i> , 2016 , 84, 675-684	5.2	7
20	Motility and cell shape roles in the rheology of growing bacteria cultures. <i>European Physical Journal E</i> , 2019 , 42, 26	1.5	6
19	H NMR Relaxometry and Diffusometry Study of Magnetic and Nonmagnetic Ionic Liquid-Based Solutions: Cosolvent and Temperature Effects. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 11472-11484	3.4	6

18	Rotational tumbling of Escherichia coli aggregates under shear. <i>Physical Review E</i> , 2016 , 94, 062402	2.4	6
17	On the influence of imidazolium ionic liquids on cellulose derived polymers. <i>European Polymer Journal</i> , 2019 , 114, 353-360	5.2	5
16	Cellulose-Based Materials: Cellulose-Based Biomimetics and Their Applications (Adv. Mater. 19/2018). <i>Advanced Materials</i> , 2018 , 30, 1870131	24	4
15	Spotting plants microfilament morphologies and nanostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 13188-13193	11.5	3
14	Novel coating containing molybdenum oxide nanoparticles to reduce Staphylococcus aureus contamination on inanimate surfaces. <i>PLoS ONE</i> , 2019 , 14, e0213151	3.7	3
13	Composite systems for flexible display applications from cellulose derivatives. <i>Synthetic Metals</i> , 2002 , 127, 111-114	3.6	3
12	Cholesteric-type cellulosic structures: from plants to applications. <i>Liquid Crystals</i> , 2019 , 46, 1937-1949	2.3	2
11	Mechanically activated cholesteric polymer dispersed liquid crystals. <i>Liquid Crystals</i> , 2007 , 34, 1269-1273	2.3	2
10	Light Scattering Studies in Cellulose Derivative Based PDLC Type Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2001 , 359, 79-88		2
9	Molecular order and dynamics of water in hybrid cellulose acetate-silica asymmetric membranes. <i>Molecular Physics</i> , 2019 , 117, 975-982	1.7	2
8	Influence of chain length of prepolymers in permanent memory effect of PDLC assessed by solid-state NMR. <i>Liquid Crystals</i> , 2020 , 47, 522-530	2.3	2
7	Tuning the H NMR Paramagnetic Relaxation Enhancement and Local Order of [Aliquat]-Based Systems Mixed with DMSO. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
6	Understanding the influence of carbon nanotubes on the flow behavior of liquid crystalline hydroxypropylcellulose: A Rheo-NMR study. <i>Polymer</i> , 2019 , 180, 121675	3.9	1
5	InOx thin films deposited by plasma assisted evaporation: Application in light shutters. <i>Vacuum</i> , 2014 , 107, 116-119	3.7	1
4	Micro- and nanofibers and liquid crystals for light-scattering shutters: simulation of electro-optical properties. <i>Physical Review E</i> , 2014 , 89, 012507	2.4	1
3	Antibiotic Activity Screened by the Rheology of S. aureus Cultures. <i>Fluids</i> , 2020 , 5, 76	1.6	0
2	Preliminary Results on UV and High Temperature Exposure Effects on the Electro-Optical Properties of Cellulose Derivatives Based PDLC Type Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2000 , 351, 61-68		
1	S. aureus and E. coli Co-culture Growth Under Shear. <i>Springer Proceedings in Materials</i> , 2020 , 108-112	0.2	

