

Luc Picton

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5197775/luc-picton-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114
papers

2,624
citations

31
h-index

44
g-index

117
ext. papers

2,858
ext. citations

6
avg, IF

4.74
L-index

#	Paper	IF	Citations
114	Analysis of a complex polysaccharide (gum arabic) by multi-angle laser light scattering coupled on-line to size exclusion chromatography and flow field flow fractionation. <i>Carbohydrate Polymers</i> , 2000 , 42, 23-31	10.3	108
113	Comparison of polysaccharide degradations by dynamic high-pressure homogenization. <i>Food Hydrocolloids</i> , 2012 , 27, 278-286	10.6	92
112	Prickly pear nopals pectin from <i>Opuntia ficus-indica</i> physico-chemical study in dilute and semi-dilute solutions. <i>Carbohydrate Polymers</i> , 2001 , 46, 69-79	10.3	90
111	High-resolution nuclear magnetic resonance spectroscopy studies of polysaccharides crosslinked by sodium trimetaphosphate: a proposal for the reaction mechanism. <i>Carbohydrate Research</i> , 2007 , 342, 943-53	2.9	79
110	Structural investigations of the neutral polysaccharide of <i>Linum usitatissimum</i> L. seeds mucilage. <i>International Journal of Biological Macromolecules</i> , 2005 , 35, 121-5	7.9	75
109	New amphiphilic and pH-sensitive hydrogel for controlled release of a model poorly water-soluble drug. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009 , 73, 345-50	5.7	69
108	Hyaluronan-based hydrogels particles prepared by crosslinking with trisodium trimetaphosphate. Synthesis and characterization. <i>Carbohydrate Polymers</i> , 2004 , 57, 1-6	10.3	65
107	Trisodium trimetaphosphate crosslinked xanthan networks: synthesis, swelling, loading and releasing behaviour. <i>Polymer Bulletin</i> , 2009 , 62, 525-538	2.4	61
106	Hydrogels Based on Pullulan Crosslinked with sodium trimetaphosphate (STMP): Rheological study. <i>Polymer Bulletin</i> , 2004 , 52, 429-436	2.4	58
105	Entrapment and release of sodium polystyrene sulfonate (SPS) from calcium alginate gel beads. <i>European Polymer Journal</i> , 2004 , 40, 2709-2715	5.2	55
104	New amphiphilic modified polysaccharides with original solution behaviour in salt media. <i>Carbohydrate Polymers</i> , 2009 , 75, 454-462	10.3	51
103	Amphiphilic polysaccharides. Evidence for a competition between intra and intermolecular associations in dilute system. <i>Polymer</i> , 2003 , 44, 7917-7924	3.9	50
102	Purification of a low molecular weight fucoidan for SPECT molecular imaging of myocardial infarction. <i>Marine Drugs</i> , 2014 , 12, 4851-67	6	48
101	Different ways for grafting ester derivatives of poly(ethylene glycol) onto chitosan: related characteristics and potential properties. <i>Polymer</i> , 2005 , 46, 639-651	3.9	45
100	Analysis of arabic gum: Study of degradation and water desorption processes. <i>Food Hydrocolloids</i> , 2009 , 23, 1930-1934	10.6	43
99	Synthesis, photopolymerization and adhesive properties of new hydrolytically stable phosphonic acids for dental applications. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 7074-7090	2.5	43
98	Composition, structure and solution properties of polysaccharides extracted from leaves of <i>Mesembryanthemum crystallinum</i> . <i>European Polymer Journal</i> , 2006 , 42, 786-795	5.2	42

97	Aggregation of hydrophobically modified polysaccharides in solution and at the air-water interface. <i>Journal of Colloid and Interface Science</i> , 2005 , 281, 316-24	9.3	42
96	Rheological properties of hydrophobically modified carboxymethylcelluloses. <i>Carbohydrate Polymers</i> , 2005 , 60, 87-94	10.3	42
95	Synthesis and characterization of thermosensitive and pH-sensitive block copolymers based on polyetheramine and pullulan with different length. <i>Carbohydrate Polymers</i> , 2011 , 86, 304-312	10.3	41
94	Associative pullulan gels and their interaction with biological active substances. <i>Journal of Controlled Release</i> , 2002 , 83, 41-51	11.7	41
93	Aggregation of amphiphilic pullulan derivatives evidenced by on-line flow field flow fractionation/multi-angle laser light scattering. <i>Biomedical Applications</i> , 2001 , 753, 115-22		41
92	Amphiphilic and thermosensitive copolymers based on pullulan and Jeffamine [®] : Synthesis, characterization and physicochemical properties. <i>Carbohydrate Polymers</i> , 2012 , 87, 1522-1531	10.3	40
91	Production and characterization of new families of polyglucuronic acids from TEMPO-NaOCl oxidation of curdlan. <i>International Journal of Biological Macromolecules</i> , 2009 , 45, 458-62	7.9	37
90	Dynamic mechanical properties of polyimide/poly(silsesquioxane)-like hybrid films. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 2500-2516	2.9	37
89	Highly sulphated galactan from <i>Halymenia durvillei</i> (Halymeniales, Rhodophyta), a red seaweed of Madagascar marine coasts. <i>International Journal of Biological Macromolecules</i> , 2009 , 45, 140-5	7.9	35
88	Contributions of intermolecular interactions between constitutive arabinoxylans to the flaxseeds mucilage properties. <i>Biomacromolecules</i> , 2005 , 6, 1871-6	6.9	35
87	Carboxymethylpullulan hydrogels with a ionic and/or amphiphilic behavior: Swelling properties and entrapment of cationic and/or hydrophobic molecules. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006 , 274, 163-169	5.1	35
86	Glucose-sensitive polyelectrolyte microcapsules based on (alginate/chitosan) pair. <i>Carbohydrate Polymers</i> , 2018 , 184, 144-153	10.3	32
85	Adsorption of cellulose derivatives onto montmorillonite: a SEC/MALLS study of molar masses influence. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002 , 203, 77-86	5.1	32
84	Synthesis of new associative gel microspheres from carboxymethyl pullulan and their interactions with lysozyme. <i>European Polymer Journal</i> , 2004 , 40, 283-289	5.2	31
83	Effect of chitosan coating on the swelling and controlled release of a poorly water-soluble drug from an amphiphilic and pH-sensitive hydrogel. <i>International Journal of Biological Macromolecules</i> , 2010 , 47, 120-5	7.9	30
82	Enhancement of the solubility and efficacy of poorly water-soluble drugs by hydrophobically-modified polysaccharide derivatives. <i>Pharmaceutical Research</i> , 2007 , 24, 2317-26	4.5	30
81	Solution Behavior of Hydrophobically Associating Cellulosic Derivatives. <i>International Journal of Polymer Analysis and Characterization</i> , 1996 , 2, 103-113	1.7	30
80	Preparation and characterization of anionic pullulan thermoassociative nanoparticles for drug delivery. <i>Carbohydrate Polymers</i> , 2014 , 111, 892-900	10.3	29

79	Multi-responsive carboxymethyl polysaccharide crosslinked hydrogels containing Jeffamine side-chains. <i>Carbohydrate Polymers</i> , 2012 , 89, 578-85	10.3	29
78	New anionic crosslinked multi-responsive pullulan hydrogels. <i>Carbohydrate Polymers</i> , 2012 , 87, 1440-1446	10.3	27
77	Hypothesis: hyperstructures regulate bacterial structure and the cell cycle. <i>Biochimie</i> , 1999 , 81, 915-20	4.6	26
76	Rheological study of in-situ crosslinkable hydrogels based on hyaluronanic acid, collagen and sericin. <i>Materials Science and Engineering C</i> , 2016 , 69, 388-97	8.3	25
75	Crosslinked hydrogels based on biological macromolecules with potential use in skin tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2016 , 84, 174-81	7.9	24
74	Thermo sensitive behavior of cellulose derivatives in dilute aqueous solutions: from macroscopic to mesoscopic scale. <i>Journal of Colloid and Interface Science</i> , 2011 , 357, 372-8	9.3	24
73	Stiffness xanthan hydrogels: synthesis, swelling characteristics and controlled release properties. <i>Polymer Bulletin</i> , 2008 , 61, 631-641	2.4	24
72	Pullulan/STMP hydrogels: a way to correlate crosslinking mechanism, structure and physicochemical properties. <i>Polymer Bulletin</i> , 2011 , 67, 455-466	2.4	23
71	Chemically modified exopolysaccharide pullulans: physico-chemical characteristics of ionic derivatives. <i>Carbohydrate Polymers</i> , 1995 , 28, 131-136	10.3	23
70	Conventional and Microwave-Assisted Extraction of Mucilage from <i>Opuntia ficus-indica</i> Cladodes: Physico-Chemical and Rheological Properties. <i>Food and Bioprocess Technology</i> , 2016 , 9, 481-492	5.1	22
69	Unusual rheological properties of a new associative polysaccharide in salt media. <i>Carbohydrate Polymers</i> , 2009 , 77, 743-749	10.3	21
68	Adsorption of amphiphilic polysaccharides onto polystyrene latex particles. <i>Polymer</i> , 2005 , 46, 3700-3707	3.9	21
67	Flax (<i>Linum usitatissimum</i>) seed cake: a potential source of high molecular weight arabinoxylans?. <i>Journal of Agricultural and Food Chemistry</i> , 2005 , 53, 1449-52	5.7	20
66	Relationship between potato starch isolation methods and kinetic parameters of hydrolysis by free and immobilised α -amylase on alginate (from <i>Laminaria digitata</i> algae). <i>Journal of Food Composition and Analysis</i> , 2009 , 22, 563-570	4.1	19
65	Influence of alkyl chains length on the conformation and solubilization properties of amphiphilic carboxymethylpullulans. <i>Colloid and Polymer Science</i> , 2008 , 286, 1299-1305	2.4	19
64	Formation of polyelectrolyte complexes with diethylaminoethyl dextran: charge ratio and molar mass effect. <i>Carbohydrate Polymers</i> , 2014 , 113, 217-24	10.3	18
63	Polysaccharide hydrolases are released with mucilages after water hydration of flax seeds. <i>Plant Physiology and Biochemistry</i> , 2013 , 62, 54-62	5.4	18
62	Association states of multisensitive smart polysaccharide-block-polyetheramine copolymers. <i>Carbohydrate Polymers</i> , 2013 , 95, 41-9	10.3	18

61	New anionic amphiphilic thermosensitive pullulan derivatives. <i>Carbohydrate Polymers</i> , 2011 , 84, 276-281	10.3	18
60	Saccharide effect on the LCST property of a polyether: Influence of structure and length. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 428, 25-31	5.1	17
59	Anionic polysaccharide hydrogels with thermosensitive properties. <i>Carbohydrate Polymers</i> , 2011 , 83, 52-59	10.3	17
58	The red microalga <i>Flintiella sanguinaria</i> as a new exopolysaccharide producer. <i>Journal of Applied Phycology</i> , 2018 , 30, 2803-2814	3.2	16
57	Antioxidant properties and bioactivity of Carboxymethylpullulan grafted with ferulic acid and of their hydrogels obtained by enzymatic reaction. <i>Food Chemistry</i> , 2018 , 262, 21-29	8.5	16
56	Novel cationic and amphiphilic pullulan derivatives II: pH dependant physicochemical properties. <i>Carbohydrate Polymers</i> , 2010 , 80, 123-129	10.3	16
55	Enzymatic cross-linking of carboxymethylpullulan grafted with ferulic acid. <i>Carbohydrate Polymers</i> , 2016 , 151, 78-87	10.3	15
54	Molecular size characterization and kinetics studies on hydrolysis of pullulan by pullulanase in an entangled alginate medium. <i>Biomacromolecules</i> , 2013 , 14, 2234-41	6.9	15
53	Water Retention Capacity of Polysaccharides from Prickly Pear Nopals of <i>Opuntia Ficus Indica</i> and <i>Opuntia Litoralis</i> : Physical-Chemical Approach. <i>Journal of Polymers and the Environment</i> , 2010 , 18, 451-458	4.5	15
52	Novel cationic and amphiphilic pullulan derivatives I: Synthesis and characterization. <i>European Polymer Journal</i> , 2007 , 43, 4940-4950	5.2	15
51	Contribution of flow field flow fractionation with on line static and dynamic light scattering to the study of hydrosoluble polyelectrolyte complexes. <i>Analytica Chimica Acta</i> , 2007 , 604, 2-8	6.6	15
50	pH-dependent stability of scleroglucan borate gels. <i>Carbohydrate Polymers</i> , 2007 , 69, 65-71	10.3	14
49	Synthesis and physicochemical characterization of a novel ampholytic pullulan derivative with amphiphilic behavior in alkaline media. <i>Journal of Colloid and Interface Science</i> , 2007 , 313, 108-116	9.3	14
48	Synthesis of lipid-b-poly(2-isopropyl-2-oxazoline) and successive study of pH- and thermo-sensitive mixed micelles by combination with lipid-b-poly(acrylic acid). <i>Polymer Chemistry</i> , 2014 , 5, 4009	4.9	13
47	Effect of carboxymethyl groups on degradation of modified pullulan by pullulanase from <i>Klebsiella pneumoniae</i> . <i>Carbohydrate Polymers</i> , 2013 , 93, 109-115	10.3	13
46	Carboxymethylpullulan Grafted with Aminoguaiacol: Synthesis, Characterization, and Assessment of Antibacterial and Antioxidant Properties. <i>Biomacromolecules</i> , 2017 , 18, 3238-3251	6.9	13
45	Covalent immobilization of pullulanase on alginate and study of its hydrolysis of pullulan. <i>Biotechnology Progress</i> , 2015 , 31, 883-9	2.8	13
44	Two methods for one-point anchoring of a linear polysaccharide on a gold surface. <i>Langmuir</i> , 2015 , 31, 254-61	4	13

43	Cyclodextrin-anionic polysaccharide hydrogels: Synthesis, characterization, and interaction with some organic molecules (water pollutants, drugs, proteins). <i>Journal of Applied Polymer Science</i> , 2009 , 112, 1175-1183	2.9	13
42	Curdlan microspheres. Synthesis, characterization and interaction with proteins (enzymes, vaccines). <i>International Journal of Biological Macromolecules</i> , 2009 , 44, 215-21	7.9	13
41	Synthesis of pH-sensitive micelles from linseed oil using atom transfer radical polymerisation (ATRP). <i>Polymer</i> , 2012 , 53, 4344-4352	3.9	12
40	New Polysaccharide-based Microparticles Crosslinked with Siloxane: Interactions with Biologically Active Substances. <i>Journal of Bioactive and Compatible Polymers</i> , 2008 , 23, 82-94	2	11
39	Fractionation and characterization of gum from . Effect of enzymatic and alkaline treatments. <i>Carbohydrate Polymers</i> , 2005 , 62, 239-244	10.3	11
38	Organization of "Pullulan"-block-polyether copolymers at the aqueous solution/air interface. <i>Journal of Colloid and Interface Science</i> , 2013 , 398, 134-41	9.3	10
37	Rheological behavior and non-enzymatic degradation of a sulfated galactan from <i>Halymenia durvillei</i> (Halymeniales, Rhodophyta). <i>Applied Biochemistry and Biotechnology</i> , 2012 , 167, 1303-13	3.2	10
36	New polysaccharide-based microparticles crosslinked with siloxanic units. I. Synthesis and characterization. <i>Reactive and Functional Polymers</i> , 2007 , 67, 60-66	4.6	10
35	Structure/rheological properties relations of crosslinked potato starch suspensions. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 2480-2489	2.9	10
34	Rheological properties of modified cellulosic polymers in semi-dilute regime: Effect of salinity and temperature 1996 , 26-31		10
33	Thermo-controlled rheology of electro-assembled polyanionic polysaccharide (alginate) and polycationic thermo-sensitive polymers. <i>Carbohydrate Polymers</i> , 2016 , 139, 67-74	10.3	9
32	Collagen functionalized with unsaturated cyclic anhydrides-interactions in solution and solid state. <i>Biopolymers</i> , 2014 , 101, 228-36	2.2	9
31	Thermo- and pH-sensitive triblock copolymers with tunable hydrophilic/hydrophobic properties. <i>Journal of Polymer Science Part A</i> , 2015 , 53, 2606-2616	2.5	9
30	Alginate grafted with poly(ϵ -caprolactone): effect of enzymatic degradation on physicochemical properties. <i>Polymer International</i> , 2012 , 61, 1456-1461	3.3	9
29	Acacia macracantha gum as a possible source of arabinogalactan protein. <i>Carbohydrate Polymers</i> , 2008 , 72, 88-94	10.3	9
28	Surfactants Synthesis Using Petroleum Fractions and Crude Oil: Application in Microemulsion Formulation. <i>Journal of Dispersion Science and Technology</i> , 2010 , 31, 877-882	1.5	8
27	Biomimetic hydrogel by enzymatic crosslinking of pullulan grafted with ferulic acid. <i>Carbohydrate Polymers</i> , 2020 , 250, 116967	10.3	8
26	Synthesis of Dual-Sensitive Core Cross-Linked Mixed Micelles through Thiol-Ene Addition and Subsequent Drug Release Behavior. <i>Macromolecular Chemistry and Physics</i> , 2017 , 218, 1700016	2.6	7

25	Gd(DOTA)-grafted submicronic polysaccharide-based particles functionalized with fucoidan as potential MR contrast agent able to target human activated platelets. <i>Carbohydrate Polymers</i> , 2020 , 245, 116457	10.3	6
24	Potential of Exopolysaccharide from to Contend with Bacterial Proliferation, Biofilm Formation, and Breast Cancer. <i>Marine Drugs</i> , 2021 , 19,	6	6
23	Self-assembled multifunctional core-shell highly porous metal-organic framework nanoparticles. <i>International Journal of Pharmaceutics</i> , 2020 , 581, 119281	6.5	4
22	Hydrolysis of pullulan by entrapped pullulanase in Ca/alginate beads. <i>Biopolymers</i> , 2014 , 101, 938-44	2.2	4
21	Evolution of the water monomer dynamic interfacial properties during methyl methacrylate radical polymerization in a single monomer droplet: dependence on the chemical structure of the surfactant. <i>Polymer International</i> , 2013 , 62, n/a-n/a	3.3	4
20	Self-organization of Water Soluble and Amphiphile Crosslinked Carboxymethylpullulan. <i>Polymer Journal</i> , 2008 , 40, 1132-1139	2.7	4
19	Synthesis of chitosan microspheres containing pendant cyclodextrin moieties and their interaction with biological active molecules. <i>Current Drug Delivery</i> , 2004 , 1, 227-33	3.2	4
18	Thermosensitive behavior of amphiphilic triblock copolymers based on poly(acrylic acid) and poly(propylene oxide). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 1507-1514	2.6	4
17	Scaffolds Based on Collagen, Hyaluronan and Sericin with Potential Applications as Controlled Drug Delivery System. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 1528-1533	1.3	3
16	Synthesis and evaluation of a tri-tyrosine decorated dextran MR contrast agent for vulnerable plaque detection. <i>Chemical Communications</i> , 2011 , 47, 5506-8	5.8	3
15	Metastable Amphiphilic Hydrogels Based on Crosslinked Carboxymethylpullulan. <i>Polymer Journal</i> , 2008 , 40, 233-240	2.7	3
14	Solvent-polymer interactions in associative polymer/aqueous media systems. <i>Macromolecular Symposia</i> , 1997 , 114, 133-138	0.8	2
13	Associative Polymers and Physical Gels Derived from Natural Biopolymers. <i>Oil & Gas Science & Technology</i> , 1997 , 52, 232-234		2
12	Porous nanoparticles with engineered shells release their drug cargo in cancer cells. <i>International Journal of Pharmaceutics</i> , 2021 , 610, 121230	6.5	2
11	Hyaluronic Acid Functionalization with Jeffamine M2005: A Comparison of the Thermo-Responsiveness Properties of the Hydrogel Obtained through Two Different Synthesis Routes. <i>Gels</i> , 2021 , 7,	4.2	2
10	A mild and straightforward one-pot hyaluronic acid functionalization through termination of poly-(2-alkyl-2-oxazoline). <i>Polymer</i> , 2021 , 230, 124059	3.9	2
9	Polyelectrolyte complexes of hyaluronic acid and diethylaminoethyl dextran: Formation, stability and hydrophobicity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 629, 127485	5.1	2
8	Pullulan-Based Polymer Surfactants for Vinyl Acetate Miniemulsion Polymerization: Kinetics and Colloidal Stability Investigations. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 1879-1887	2.6	1

7	Impact of bio-based binders on rheological properties of aqueous alumina slurries for tape casting. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 5593-5601	6	1
6	Characterization of dextran particle size: How frit-inlet asymmetrical flow field-flow fractionation (FI-AF4) coupled online with dynamic light scattering (DLS) leads to enhanced size distribution. <i>Journal of Chromatography A</i> , 2021 , 1653, 462404	4.5	1
5	Thermo-responsive hydrogels from hyaluronic acid functionalized with poly(2-alkyl-2-oxazoline) copolymers with tuneable transition temperature. <i>Polymer</i> , 2022 , 244, 124643	3.9	1
4	Effect of biopolymer addition on the formulation and properties of an oil-in-water microemulsion. <i>Research on Chemical Intermediates</i> , 2015 , 41, 5665-5679	2.8	
3	Functionalized polysaccharides with aminoguaiacol: a competition between associative behavior and antibacterial and antioxidant activities. <i>Pure and Applied Chemistry</i> , 2020 , 92, 323-333	2.1	
2	Microgels Based on Carboxymethylpullulan Grafted with Ferulic Acid Obtained by Enzymatic Crosslinking in Emulsion for Drug Delivery Systems. <i>Macromolecular Bioscience</i> , 2021 , 21, e2100165	5.5	
1	Hydrophobically controlled self-association of pH- and thermo-sensitive triblock copolymers based on poly(acrylic acid-co-tert-butyl acrylate) and poly(propylene oxide). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 1944-1949	2.6	