

# Luc Picton

## List of Publications by Year in Descending Order

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**Version:** 2024-04-23

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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.

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	Thermo-responsive hydrogels from hyaluronic acid functionalized with poly(2-alkyl-2-oxazoline) copolymers with tuneable transition temperature. <i>Polymer</i> , <b>2022</b> , 244, 124643	3.9	1
113	Porous nanoparticles with engineered shells release their drug cargo in cancer cells. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 610, 121230	6.5	2
112	Microgels Based on Carboxymethylpullulan Grafted with Ferulic Acid Obtained by Enzymatic Crosslinking in Emulsion for Drug Delivery Systems. <i>Macromolecular Bioscience</i> , <b>2021</b> , 21, e2100165	5.5	
111	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> , <b>2021</b> , 7,	4.2	2
110	Potential of Exopolysaccharide from to Contend with Bacterial Proliferation, Biofilm Formation, and Breast Cancer. <i>Marine Drugs</i> , <b>2021</b> , 19,	6	6
109	A mild and straightforward one-pot hyaluronic acid functionalization through termination of poly-(2-alkyl-2-oxazoline). <i>Polymer</i> , <b>2021</b> , 230, 124059	3.9	2
108	Impact of bio-based binders on rheological properties of aqueous alumina slurries for tape casting. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 5593-5601	6	1
107	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> , <b>2021</b> , 1653, 462404	4.5	1
106	Polyelectrolyte complexes of hyaluronic acid and diethylaminoethyl dextran: Formation, stability and hydrophobicity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 629, 127485	5.1	2
105	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> , <b>2020</b> , 245, 116457	10.3	6
104	Functionalized polysaccharides with aminoguaiacol: a competition between associative behavior and antibacterial and antioxidant activities. <i>Pure and Applied Chemistry</i> , <b>2020</b> , 92, 323-333	2.1	
103	Self-assembled multifunctional core-shell highly porous metal-organic framework nanoparticles. <i>International Journal of Pharmaceutics</i> , <b>2020</b> , 581, 119281	6.5	4
102	Biomimetic hydrogel by enzymatic crosslinking of pullulan grafted with ferulic acid. <i>Carbohydrate Polymers</i> , <b>2020</b> , 250, 116967	10.3	8
101	The red microalga <i>Flintiella sanguinaria</i> as a new exopolysaccharide producer. <i>Journal of Applied Phycology</i> , <b>2018</b> , 30, 2803-2814	3.2	16
100	Glucose-sensitive polyelectrolyte microcapsules based on (alginate/chitosan) pair. <i>Carbohydrate Polymers</i> , <b>2018</b> , 184, 144-153	10.3	32
99	Antioxidant properties and bioactivity of Carboxymethylpullulan grafted with ferulic acid and of their hydrogels obtained by enzymatic reaction. <i>Food Chemistry</i> , <b>2018</b> , 262, 21-29	8.5	16
98	Scaffolds Based on Collagen, Hyaluronan and Sericin with Potential Applications as Controlled Drug Delivery System. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 1528-1533	1.3	3

97	Synthesis of Dual-Sensitive Core Cross-Linked Mixed Micelles through Thiol-ene Addition and Subsequent Drug Release Behavior. <i>Macromolecular Chemistry and Physics</i> , <b>2017</b> , 218, 1700016	2.6	7
96	Carboxymethylpullulan Grafted with Aminoguaiacol: Synthesis, Characterization, and Assessment of Antibacterial and Antioxidant Properties. <i>Biomacromolecules</i> , <b>2017</b> , 18, 3238-3251	6.9	13
95	Enzymatic cross-linking of carboxymethylpullulan grafted with ferulic acid. <i>Carbohydrate Polymers</i> , <b>2016</b> , 151, 78-87	10.3	15
94	Crosslinked hydrogels based on biological macromolecules with potential use in skin tissue engineering. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 84, 174-81	7.9	24
93	Thermo-controlled rheology of electro-assembled polyanionic polysaccharide (alginate) and polycationic thermo-sensitive polymers. <i>Carbohydrate Polymers</i> , <b>2016</b> , 139, 67-74	10.3	9
92	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> , <b>2016</b> , 9, 481-492	5.1	22
91	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> , <b>2016</b> , 54, 1507-1514	2.6	4
90	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> , <b>2016</b> , 54, 1944-1949	2.6	
89	Rheological study of in-situ crosslinkable hydrogels based on hyaluronan acid, collagen and sericin. <i>Materials Science and Engineering C</i> , <b>2016</b> , 69, 388-97	8.3	25
88	Effect of biopolymer addition on the formulation and properties of an oil-in-water microemulsion. <i>Research on Chemical Intermediates</i> , <b>2015</b> , 41, 5665-5679	2.8	
87	Covalent immobilization of pullulanase on alginate and study of its hydrolysis of pullulan. <i>Biotechnology Progress</i> , <b>2015</b> , 31, 883-9	2.8	13
86	Pullulan-Based Polymer Surfactants for Vinyl Acetate Miniemulsion Polymerization: Kinetics and Colloidal Stability Investigations. <i>Macromolecular Chemistry and Physics</i> , <b>2015</b> , 216, 1879-1887	2.6	1
85	Thermo- and pH-sensitive triblock copolymers with tunable hydrophilic/hydrophobic properties. <i>Journal of Polymer Science Part A</i> , <b>2015</b> , 53, 2606-2616	2.5	9
84	Two methods for one-point anchoring of a linear polysaccharide on a gold surface. <i>Langmuir</i> , <b>2015</b> , 31, 254-61	4	13
83	Hydrolysis of pullulan by entrapped pullulanase in Ca/alginate beads. <i>Biopolymers</i> , <b>2014</b> , 101, 938-44	2.2	4
82	Formation of polyelectrolyte complexes with diethylaminoethyl dextran: charge ratio and molar mass effect. <i>Carbohydrate Polymers</i> , <b>2014</b> , 113, 217-24	10.3	18
81	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> , <b>2014</b> , 5, 4009	4.9	13
80	Preparation and characterization of anionic pullulan thermoassociative nanoparticles for drug delivery. <i>Carbohydrate Polymers</i> , <b>2014</b> , 111, 892-900	10.3	29

79	Collagen functionalized with unsaturated cyclic anhydrides-interactions in solution and solid state. <i>Biopolymers</i> , <b>2014</b> , 101, 228-36	2.2	9
78	Purification of a low molecular weight fucoidan for SPECT molecular imaging of myocardial infarction. <i>Marine Drugs</i> , <b>2014</b> , 12, 4851-67	6	48
77	Polysaccharide hydrolases are released with mucilages after water hydration of Flax seeds. <i>Plant Physiology and Biochemistry</i> , <b>2013</b> , 62, 54-62	5.4	18
76	Organization of "Pullulan"-block-polyether copolymers at the aqueous solution/air interface. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 398, 134-41	9.3	10
75	Saccharide effect on the LCST property of a polyether: Influence of structure and length. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2013</b> , 428, 25-31	5.1	17
74	Association states of multisensitive smart polysaccharide-block-polyetheramine copolymers. <i>Carbohydrate Polymers</i> , <b>2013</b> , 95, 41-9	10.3	18
73	Effect of carboxymethyl groups on degradation of modified pullulan by pullulanase from <i>Klebsiella pneumoniae</i> . <i>Carbohydrate Polymers</i> , <b>2013</b> , 93, 109-15	10.3	13
72	Molecular size characterization and kinetics studies on hydrolysis of pullulan by pullulanase in an entangled alginate medium. <i>Biomacromolecules</i> , <b>2013</b> , 14, 2234-41	6.9	15
71	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> , <b>2013</b> , 62, n/a-n/a	3.3	4
70	Synthesis of pH-sensitive micelles from linseed oil using atom transfer radical polymerisation (ATRP). <i>Polymer</i> , <b>2012</b> , 53, 4344-4352	3.9	12
69	Rheological behavior and non-enzymatic degradation of a sulfated galactan from <i>Halymenia durvillei</i> (Halymeniales, Rhodophyta). <i>Applied Biochemistry and Biotechnology</i> , <b>2012</b> , 167, 1303-13	3.2	10
68	Alginate grafted with poly( $\epsilon$ -caprolactone): effect of enzymatic degradation on physicochemical properties. <i>Polymer International</i> , <b>2012</b> , 61, 1456-1461	3.3	9
67	New anionic crosslinked multi-responsive pullulan hydrogels. <i>Carbohydrate Polymers</i> , <b>2012</b> , 87, 1440-1446	10.3	27
66	Amphiphilic and thermosensitive copolymers based on pullulan and Jeffamine <sup>®</sup> : Synthesis, characterization and physicochemical properties. <i>Carbohydrate Polymers</i> , <b>2012</b> , 87, 1522-1531	10.3	40
65	Multi-responsive carboxymethyl polysaccharide crosslinked hydrogels containing Jeffamine side-chains. <i>Carbohydrate Polymers</i> , <b>2012</b> , 89, 578-85	10.3	29
64	Comparison of polysaccharide degradations by dynamic high-pressure homogenization. <i>Food Hydrocolloids</i> , <b>2012</b> , 27, 278-286	10.6	92
63	Pullulan $\beta$ TMP hydrogels: a way to correlate crosslinking mechanism, structure and physicochemical properties. <i>Polymer Bulletin</i> , <b>2011</b> , 67, 455-466	2.4	23
62	Synthesis and evaluation of a tri-tyrosine decorated dextran MR contrast agent for vulnerable plaque detection. <i>Chemical Communications</i> , <b>2011</b> , 47, 5506-8	5.8	3

61	Anionic polysaccharide hydrogels with thermosensitive properties. <i>Carbohydrate Polymers</i> , <b>2011</b> , 83, 52-59	10.3	17
60	New anionic amphiphilic thermosensitive pullulan derivatives. <i>Carbohydrate Polymers</i> , <b>2011</b> , 84, 276-281	10.3	18
59	Synthesis and characterization of thermosensitive and pH-sensitive block copolymers based on polyetheramine and pullulan with different length. <i>Carbohydrate Polymers</i> , <b>2011</b> , 86, 304-312	10.3	41
58	Thermo sensitive behavior of cellulose derivatives in dilute aqueous solutions: from macroscopic to mesoscopic scale. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 357, 372-8	9.3	24
57	Surfactants Synthesis Using Petroleum Fractions and Crude Oil: Application in Microemulsion Formulation. <i>Journal of Dispersion Science and Technology</i> , <b>2010</b> , 31, 877-882	1.5	8
56	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> , <b>2010</b> , 47, 120-5	7.9	30
55	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> , <b>2010</b> , 18, 451-458	4.5	15
54	Novel cationic and amphiphilic pullulan derivatives II: pH dependant physicochemical properties. <i>Carbohydrate Polymers</i> , <b>2010</b> , 80, 123-129	10.3	16
53	Analysis of arabic gum: Study of degradation and water desorption processes. <i>Food Hydrocolloids</i> , <b>2009</b> , 23, 1930-1934	10.6	43
52	Cyclodextrin-anionic polysaccharide hydrogels: Synthesis, characterization, and interaction with some organic molecules (water pollutants, drugs, proteins). <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 112, 1175-1183	2.9	13
51	Trisodium trimetaphosphate crosslinked xanthan networks: synthesis, swelling, loading and releasing behaviour. <i>Polymer Bulletin</i> , <b>2009</b> , 62, 525-538	2.4	61
50	Relationship between potato starch isolation methods and kinetic parameters of hydrolysis by free and immobilised $\alpha$ -amylase on alginate (from <i>Laminaria digitata</i> algae). <i>Journal of Food Composition and Analysis</i> , <b>2009</b> , 22, 563-570	4.1	19
49	New amphiphilic modified polysaccharides with original solution behaviour in salt media. <i>Carbohydrate Polymers</i> , <b>2009</b> , 75, 454-462	10.3	51
48	Unusual rheological properties of a new associative polysaccharide in salt media. <i>Carbohydrate Polymers</i> , <b>2009</b> , 77, 743-749	10.3	21
47	New amphiphilic and pH-sensitive hydrogel for controlled release of a model poorly water-soluble drug. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2009</b> , 73, 345-50	5.7	69
46	Curdlan microspheres. Synthesis, characterization and interaction with proteins (enzymes, vaccines). <i>International Journal of Biological Macromolecules</i> , <b>2009</b> , 44, 215-21	7.9	13
45	Highly sulphated galactan from <i>Halymenia durvillei</i> (Halymeniales, Rhodophyta), a red seaweed of Madagascar marine coasts. <i>International Journal of Biological Macromolecules</i> , <b>2009</b> , 45, 140-5	7.9	35
44	Production and characterization of new families of polyglucuronic acids from TEMPO-NaOCl oxidation of curdlan. <i>International Journal of Biological Macromolecules</i> , <b>2009</b> , 45, 458-62	7.9	37

43	New Polysaccharide-based Microparticles Crosslinked with Siloxane: Interactions with Biologically Active Substances. <i>Journal of Bioactive and Compatible Polymers</i> , <b>2008</b> , 23, 82-94	2	11
42	Stiffness xanthan hydrogels: synthesis, swelling characteristics and controlled release properties. <i>Polymer Bulletin</i> , <b>2008</b> , 61, 631-641	2.4	24
41	Influence of alkyl chains length on the conformation and solubilization properties of amphiphilic carboxymethylpullulans. <i>Colloid and Polymer Science</i> , <b>2008</b> , 286, 1299-1305	2.4	19
40	Synthesis, photopolymerization and adhesive properties of new hydrolytically stable phosphonic acids for dental applications. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 7074-7090	2.5	43
39	Acacia macracantha gum as a possible source of arabinogalactan protein. <i>Carbohydrate Polymers</i> , <b>2008</b> , 72, 88-94	10.3	9
38	Metastable Amphiphilic Hydrogels Based on Crosslinked Carboxymethylpullulan. <i>Polymer Journal</i> , <b>2008</b> , 40, 233-240	2.7	3
37	Self-organization of Water Soluble and Amphiphile Crosslinked Carboxymethylpullulan. <i>Polymer Journal</i> , <b>2008</b> , 40, 1132-1139	2.7	4
36	pH-dependent stability of scleroglucan borate gels. <i>Carbohydrate Polymers</i> , <b>2007</b> , 69, 65-71	10.3	14
35	High-resolution nuclear magnetic resonance spectroscopy studies of polysaccharides crosslinked by sodium trimetaphosphate: a proposal for the reaction mechanism. <i>Carbohydrate Research</i> , <b>2007</b> , 342, 943-53	2.9	79
34	Novel cationic and amphiphilic pullulan derivatives I: Synthesis and characterization. <i>European Polymer Journal</i> , <b>2007</b> , 43, 4940-4950	5.2	15
33	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> , <b>2007</b> , 604, 2-8	6.6	15
32	Synthesis and physicochemical characterization of a novel ampholytic pullulan derivative with amphiphilic behavior in alkaline media. <i>Journal of Colloid and Interface Science</i> , <b>2007</b> , 313, 108-16	9.3	14
31	Enhancement of the solubility and efficacy of poorly water-soluble drugs by hydrophobically-modified polysaccharide derivatives. <i>Pharmaceutical Research</i> , <b>2007</b> , 24, 2317-26	4.5	30
30	New polysaccharide-based microparticles crosslinked with siloxanic units. I. Synthesis and characterization. <i>Reactive and Functional Polymers</i> , <b>2007</b> , 67, 60-66	4.6	10
29	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> , <b>2006</b> , 274, 163-169	5.1	35
28	Composition, structure and solution properties of polysaccharides extracted from leaves of <i>Mesembryanthemum crystallinum</i> . <i>European Polymer Journal</i> , <b>2006</b> , 42, 786-795	5.2	42
27	Contributions of intermolecular interactions between constitutive arabinoxylans to the flaxseeds mucilage properties. <i>Biomacromolecules</i> , <b>2005</b> , 6, 1871-6	6.9	35
26	Structural investigations of the neutral polysaccharide of <i>Linum usitatissimum</i> L. seeds mucilage. <i>International Journal of Biological Macromolecules</i> , <b>2005</b> , 35, 121-5	7.9	75

25	Flax ( <i>Linum usitatissimum</i> ) seed cake: a potential source of high molecular weight arabinoxylans?. <i>Journal of Agricultural and Food Chemistry</i> , <b>2005</b> , 53, 1449-52	5.7	20
24	Aggregation of hydrophobically modified polysaccharides in solution and at the air-water interface. <i>Journal of Colloid and Interface Science</i> , <b>2005</b> , 281, 316-24	9.3	42
23	Different ways for grafting ester derivatives of poly(ethylene glycol) onto chitosan: related characteristics and potential properties. <i>Polymer</i> , <b>2005</b> , 46, 639-651	3.9	45
22	Fractionation and characterization of gum from . Effect of enzymatic and alkaline treatments. <i>Carbohydrate Polymers</i> , <b>2005</b> , 62, 239-244	10.3	11
21	Rheological properties of hydrophobically modified carboxymethylcelluloses. <i>Carbohydrate Polymers</i> , <b>2005</b> , 60, 87-94	10.3	42
20	Adsorption of amphiphilic polysaccharides onto polystyrene latex particles. <i>Polymer</i> , <b>2005</b> , 46, 3700-3707	3.9	21
19	Synthesis of chitosan microspheres containing pendant cyclodextrin moieties and their interaction with biological active molecules. <i>Current Drug Delivery</i> , <b>2004</b> , 1, 227-33	3.2	4
18	Hydrogels Based on Pullulan Crosslinked with sodium trimetaphosphate (STMP): Rheological study. <i>Polymer Bulletin</i> , <b>2004</b> , 52, 429-436	2.4	58
17	Synthesis of new associative gel microspheres from carboxymethyl pullulan and their interactions with lysozyme. <i>European Polymer Journal</i> , <b>2004</b> , 40, 283-289	5.2	31
16	Entrapment and release of sodium polystyrene sulfonate (SPS) from calcium alginate gel beads. <i>European Polymer Journal</i> , <b>2004</b> , 40, 2709-2715	5.2	55
15	Hyaluronan-based hydrogels particles prepared by crosslinking with trisodium trimetaphosphate. Synthesis and characterization. <i>Carbohydrate Polymers</i> , <b>2004</b> , 57, 1-6	10.3	65
14	Amphiphilic polysaccharides. Evidence for a competition between intra and intermolecular associations in dilute system. <i>Polymer</i> , <b>2003</b> , 44, 7917-7924	3.9	50
13	Associative pullulan gels and their interaction with biological active substances. <i>Journal of Controlled Release</i> , <b>2002</b> , 83, 41-51	11.7	41
12	Adsorption of cellulose derivatives onto montmorillonite: a SEC/MALLS study of molar masses influence. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2002</b> , 203, 77-86	5.1	32
11	Aggregation of amphiphilic pullulan derivatives evidenced by on-line flow field flow fractionation/multi-angle laser light scattering. <i>Biomedical Applications</i> , <b>2001</b> , 753, 115-22		41
10	Structure/rheological properties relations of crosslinked potato starch suspensions. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 81, 2480-2489	2.9	10
9	Dynamic mechanical properties of polyimide/poly(silsesquioxane)-like hybrid films. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 81, 2500-2516	2.9	37
8	Prickly pear nopals pectin from <i>Opuntia ficus-indica</i> physico-chemical study in dilute and semi-dilute solutions. <i>Carbohydrate Polymers</i> , <b>2001</b> , 46, 69-79	10.3	90

7	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> , <b>2000</b> , 42, 23-31	10.3	108
6	Hypothesis: hyperstructures regulate bacterial structure and the cell cycle. <i>Biochimie</i> , <b>1999</b> , 81, 915-20	4.6	26
5	Solvent-polymer interactions in associative polymer/aqueous media systems. <i>Macromolecular Symposia</i> , <b>1997</b> , 114, 133-138	0.8	2
4	Associative Polymers and Physical Gels Derived from Natural Biopolymers. <i>Oil &amp; Gas Science &amp; Technology</i> , <b>1997</b> , 52, 232-234		2
3	Rheological properties of modified cellulosic polymers in semi-dilute regime: Effect of salinity and temperature <b>1996</b> , 26-31		10
2	Solution Behavior of Hydrophobically Associating Cellulosic Derivatives. <i>International Journal of Polymer Analysis and Characterization</i> , <b>1996</b> , 2, 103-113	1.7	30
1	Chemically modified exopolysaccharide pullulans: physico-chemical characteristics of ionic derivatives. <i>Carbohydrate Polymers</i> , <b>1995</b> , 28, 131-136	10.3	23