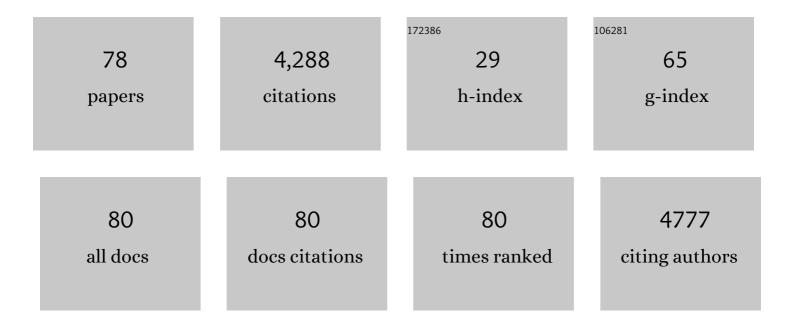
Jacques DesbriÃ"res

List of Publications by Year in descending order

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IACOLIES DESERDIÃ"DES

#	Article	IF	CITATIONS
1	Hydrophobic derivatives of chitosan: Characterization and rheological behaviour. International Journal of Biological Macromolecules, 1996, 19, 21-28.	3.6	291
2	Solid State NMR for Determination of Degree of Acetylation of Chitin and Chitosan. Biomacromolecules, 2000, 1, 746-751.	2.6	290
3	On the influence of deacetylation process on the physicochemical characteristics of chitosan from squid chitin. Polymer, 2000, 41, 2463-2469.	1.8	262
4	Influence of the nature of the metal ions on the complexation with chitosan European Polymer Journal, 2002, 38, 1523-1530.	2.6	255
5	Contribution to the preparation of chitins and chitosans with controlled physico-chemical properties. Polymer, 2003, 44, 7939-7952.	1.8	246
6	Thermogelation of methylcelluloses: new evidence for understanding the gelation mechanism. Polymer, 1998, 39, 6251-6259.	1.8	222
7	Water soluble derivatives obtained by controlled chemical modifications of chitosan. Carbohydrate Polymers, 1994, 24, 209-214.	5.1	211
8	Two Types of Hydrophobic Aggregates in Aqueous Solutions of Chitosan and Its Hydrophobic Derivative. Biomacromolecules, 2001, 2, 483-490.	2.6	211
9	Contribution to the study of the complexation of copper by chitosan and oligomers. Polymer, 2002, 43, 1267-1276.	1.8	195
10	Characterization of chitosan by steric exclusion chromatography. Polymer, 2001, 42, 09921-09927.	1.8	154
11	Chitosan for wastewater treatment. Polymer International, 2018, 67, 7-14.	1.6	145
12	Structural characterization and antioxidant activity of water-soluble polysaccharides from the Tunisian brown seaweed Cystoseira compressa. Carbohydrate Polymers, 2018, 198, 589-600.	5.1	105
13	Investigation of different natural sources of chitin: influence of the source and deacetylation process on the physicochemical characteristics of chitosan. Polymer International, 2000, 49, 337-344.	1.6	104
14	New unsaturated derivatives of Xanthan gum: Synthesis and characterization. Polymer, 2007, 48, 1921-1929.	1.8	90
15	Dynamic surface tension and dilational viscoelasticity of adsorption layers of a hydrophobically modified chitosan. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 255, 119-130.	2.3	87
16	Synthesis and characterization of new unsaturated esters of Gellan Gum. Carbohydrate Polymers, 2008, 71, 92-100.	5.1	72
17	Interfacial properties of dynamic association between chitin derivatives and surfactants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 147, 139-148.	2.3	68
18	Autoassociative natural polymer derivatives: the alkylchitosans. Rheological behaviour and temperature stability. Polymer, 2004, 45, 3285-3295.	1.8	64

2

JACQUES DESBRIÃ["]RES

#	Article	IF	CITATIONS
19	Synthesis and Biological Activity of Some New 1,3,4-Thiadiazole and 1,2,4-Triazole Compounds Containing a Phenylalanine Moiety. Molecules, 2009, 14, 2621-2631.	1.7	57
20	Stimuli-Sensitive Xanthan Derivatives/N-Isopropylacrylamide Hydrogels: Influence of Cross-Linking Agent on Interpenetrating Polymer Network Properties. Biomacromolecules, 2009, 10, 1911-1922.	2.6	56
21	Formation of an ordered nanostructure in surfactant-polyelectrolyte complexes formed by interfacial diffusion. Polymer Bulletin, 2000, 45, 77-81.	1.7	55
22	Modulated release from liposomes entrapped in chitosan/gelatin hydrogels. Materials Science and Engineering C, 2014, 43, 383-391.	3.8	51
23	Dynamic surface tension and dilational viscoelasticity of adsorption layers of alkylated chitosans and surfactant–chitosan complexes. Colloid and Polymer Science, 2006, 284, 745-754.	1.0	49
24	Low Molecular Weight Chitosan (LMWC)-based Polyplexes for pDNA Delivery: From Bench to Bedside. Polymers, 2014, 6, 1727-1755.	2.0	46
25	Physicochemical characterization of the layer-by-layer self-assembly of polyphenol oxidase and chitosan on glassy carbon electrode. Electrochimica Acta, 2005, 50, 2865-2877.	2.6	40
26	Interfacial properties of chitin and chitosan based systems. Soft Matter, 2010, 6, 2358.	1.2	35
27	The Benefits of Smart Nanoparticles in Dental Applications. International Journal of Molecular Sciences, 2021, 22, 2585.	1.8	35
28	Interactions between quaternized chitosan and surfactant studied by diffusion NMR and conductivity. Carbohydrate Polymers, 2017, 156, 182-192.	5.1	33
29	Surface activity of water soluble amphiphilic chitin derivatives. Polymer Bulletin, 1997, 39, 209-215.	1.7	32
30	Dynamic surface tension of hydrophobically modified chitosans. Mendeleev Communications, 2004, 14, 66-68.	0.6	29
31	Amphiphilic derivatives of chitosan using microwave irradiation. Toward an eco-friendly process to chitosan derivatives. Carbohydrate Polymers, 2015, 116, 26-33.	5.1	29
32	The extracellular matrix of the oleolytic biofilms of <i>Marinobacter hydrocarbonoclasticus</i> comprises cytoplasmic proteins and T2SS effectors that promote growth on hydrocarbons and lipids. Environmental Microbiology, 2017, 19, 159-173.	1.8	29
33	New highly-percolating alginate-PEI membranes for efficient recovery of chromium from aqueous solutions. Carbohydrate Polymers, 2019, 225, 115177.	5.1	29
34	Dilational viscoelasticity and relaxation properties of interfacial electrostatic complexes between oppositely charged hydrophobic and hydrophilic polyelectrolytes. Colloids and Surfaces B: Biointerfaces, 2008, 65, 43-49.	2.5	28
35	Surface characterization and drug release from porous microparticles based on methacrylic monomers and xanthan. Carbohydrate Polymers, 2015, 125, 323-333.	5.1	27
36	The effect of alkyl chain length of a polysoap on the surface activity of its complexes with cationic surfactants. Mendeleev Communications, 1997, 7, 149-151.	0.6	26

JACQUES DESBRIÃ["]RES

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37	Surfactant-polysaccharide complexes based on quaternized chitosan. Characterization and application to emulsion stability. European Polymer Journal, 2018, 104, 128-135.	2.6	26
38	On the stiffness of chitosan hydrochloride in acid-free aqueous solutions. Carbohydrate Polymers, 2000, 43, 351-357.	5.1	25
39	Alkyl-Chitosan-Based Adhesive: Water Resistance Improvement. Molecules, 2019, 24, 1987.	1.7	25
40	Original stimuli-sensitive polysaccharide derivatives/N-isopropylacrylamide hydrogels. Role of polysaccharide backbone. Carbohydrate Polymers, 2012, 89, 438-447.	5.1	24
41	Formulation and evaluation of cefuroxim loaded submicron particles for ophthalmic delivery. International Journal of Pharmaceutics, 2015, 493, 16-29.	2.6	24
42	Interfacial properties of amphiphilic natural polymer systems based on derivatives of chitin. Polymer International, 2006, 55, 1177-1183.	1.6	23
43	Microwave synthesis: An alternative approach to synthesize conducting end-capped polymers. Polymer, 2011, 52, 33-39.	1.8	21
44	Formation of polyelectrolyte complexes in an organic solvent. European Polymer Journal, 1981, 17, 1265-1269.	2.6	20
45	Magnetic microparticles based on natural polymers. International Journal of Pharmaceutics, 2011, 404, 83-93.	2.6	19
46	Thermodynamic investigation of thermoresponsive xanthanâ€poly (<i>N</i> â€isopropylacrylamide) hydrogels. Polymer International, 2011, 60, 1527-1534.	1.6	18
47	Oil removal from crude oil-in-saline water emulsions using chitosan as biosorbent. Separation Science and Technology, 2020, 55, 835-847.	1.3	18
48	Reversible thermothickening of aqueous solutions of polycations from natural origin. Macromolecular Symposia, 1997, 113, 135-149.	0.4	17
49	Dilational viscoelasticity of the adsorption layers of hydrophobically modified chitosans. Mendeleev Communications, 2005, 15, 35-38.	0.6	17
50	Thermo-sensitive gellan maleate/N-isopropylacrylamide hydrogels: initial "in vitro―and "in vivo― evaluation as ocular inserts. Polymer Bulletin, 2020, 77, 741-755.	1.7	17
51	Removal of copper ions from water of boilers by a modified natural based, corncobs. Journal of Applied Polymer Science, 2006, 102, 4637-4645.	1.3	15
52	Viscosimetric behaviour of hydrolyzed polyacrylamide-poly(4-vinylpyridine) [AD37-P4VP] mixture in aqueous solution. European Polymer Journal, 2007, 43, 540-549.	2.6	15
53	Complex microparticulate systems based on glycidyl methacrylate and xanthan. Carbohydrate Polymers, 2014, 104, 213-222.	5.1	15
54	Valorization of chitins extracted from North Morocco shrimps: Comparison of chitin reactivity and characteristics. Journal of Applied Polymer Science, 2019, 136, 47804.	1.3	15

JACQUES DESBRIÃ"RES

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55	Structural Features and Rheological Properties of a Sulfated Xylogalactan-Rich Fraction Isolated from Tunisian Red Seaweed Jania adhaerens. Applied Sciences (Switzerland), 2020, 10, 1655.	1.3	14
56	Synthesis and Antimicrobial Activity of New Derivatives of 1,3,4â€Thiadiazoles and 1,2,4â€Triazoles with 5â€Nitroindazole as Support. Journal of Heterocyclic Chemistry, 2013, 50, 366-372.	1.4	13
57	Dilational rheology of air/water interfaces covered by nonionic amphiphilic polysaccharides. Correlation with stability of oil-in-water emulsions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 441, 312-318.	2.3	13
58	Microwave-assisted modifications of polysaccharides. Pure and Applied Chemistry, 2014, 86, 1695-1706.	0.9	12
59	Interfacial properties of amphiphilic systems on the basis of natural polymers—chitin derivatives. Russian Journal of General Chemistry, 2008, 78, 2230-2238.	0.3	11
60	Extensive <i>N</i> -methylation of chitosan: evaluating the effects of the reaction conditions by using response surface methodology. Polymer International, 2015, 64, 1617-1626.	1.6	11
61	Organization of "Pullulan―block-polyether copolymers at the aqueous solution/air interface. Journal of Colloid and Interface Science, 2013, 398, 134-141.	5.0	10
62	Thermosensitive Microparticles Based on Unsaturated Esters of some Poly―and Oligosaccharides: Preparation, Characterization, Drug Inclusion and Release. Macromolecular Symposia, 2010, 297, 114-125.	0.4	9
63	Chemically Modified Polysaccharides With Applications in Nanomedicine. , 2018, , 351-399.		9
64	New Grafted Copolymers Carrying Betaine Units Based on Gellan and N-Vinylimidazole as Precursors for Design of Drug Delivery Systems. Molecules, 2020, 25, 5451.	1.7	8
65	Deborah number for the viscoelasticity of adsorption layers of amphiphilic polyelectrolytes. Mendeleev Communications, 2005, 15, 190-191.	0.6	7
66	Polyelectrolyte complex–surfactant interactions: effect of neutralization degree on viscometric behaviour in aqueous solution. Polymer Bulletin, 2013, 70, 97-103.	1.7	7
67	Wood Protective Fungicidal Treatment: Quaternary Ammonium Molecules Grafting on Cellulose Assisted by Afterglows at Atmospheric Pressure. Plasma Processes and Polymers, 2013, 10, 150-160.	1.6	7
68	Neutralization degree effect on viscosimetric behaviour of hydrolyzed polyacrylamide-poly(4-vinylpyridine) [AD37-P4VP] mixture in aqueous solution. Polymer Bulletin, 2008, 61, 771-777.	1.7	6
69	Dilational rheology and relaxation properties of the adsorption layers of electrostatic complexes between Eudragit RS and chitosan sulfate at the methylene chloride–water interface. Mendeleev Communications, 2008, 18, 35-37.	0.6	5
70	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. Polymer International, 2013, 62, n/a-n/a.	1.6	5
71	Sulfonic Derivatives of 2-Mercaptobenzoxazole and Its Conjugates with Poly(Maleic) Tj ETQq1 1 0.784314 rgB Polymeric Materials and Polymeric Biomaterials, 2014, 63, 268-276.	T /Overlock 1.8	10 Tf 50 107 5
79	Using fullâ€factorial design analysis and response surface methodology to better understand the	16	5

⁷² production of cationized chitosan from epoxides. Polymer International, 2016, 65, 811-819.

JACQUES DESBRIÃ"RES

#	Article	IF	CITATIONS
73	Investigation of β-chitin extracted from cuttlefish: comparison with squid β-chitin. Polymer Bulletin, 2020, , 1.	1.7	5
74	Chemically modified xanthan and gellan for preparation of biomaterials for ophthalmic applications. Polymer International, 2020, 69, 1051-1057.	1.6	4
75	Coupling Raman spectroscopy and drop tensiometry for in situ monitoring of radical polymerization in a single monomer droplet. Journal of Raman Spectroscopy, 2018, 49, 2046-2049.	1.2	3
76	Application of Chitosan-Based Formulations in Controlled Drug Delivery. Sustainable Agriculture Reviews, 2019, , 241-314.	0.6	3
77	Amphiphilic Systems as Biomaterials Based on Chitin, Chitosan, and Their Derivatives. , 2013, , 243-270.		2
78	Immobilization and Release Studies of Triazole Derivatives from Grafted Copolymer Based on Gellan-Carrying Betaine Units. Molecules, 2021, 26, 3330.	1.7	2