

Jacques Desbrires

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78
papers

3,667
citations

27
h-index

60
g-index

80
ext. papers

3,946
ext. citations

4.6
avg, IF

5.24
L-index

#	Paper	IF	Citations
78	Hydrophobic derivatives of chitosan: characterization and rheological behaviour. <i>International Journal of Biological Macromolecules</i> , 1996 , 19, 21-8	7.9	270
77	Solid state NMR for determination of degree of acetylation of chitin and chitosan. <i>Biomacromolecules</i> , 2000 , 1, 746-51	6.9	252
76	On the influence of deacetylation process on the physicochemical characteristics of chitosan from squid chitin. <i>Polymer</i> , 2000 , 41, 2463-2469	3.9	227
75	Influence of the nature of the metal ions on the complexation with chitosan.. <i>European Polymer Journal</i> , 2002 , 38, 1523-1530	5.2	217
74	Thermogelation of methylcelluloses: new evidence for understanding the gelation mechanism. <i>Polymer</i> , 1998 , 39, 6251-6259	3.9	210
73	Contribution to the preparation of chitins and chitosans with controlled physico-chemical properties. <i>Polymer</i> , 2003 , 44, 7939-7952	3.9	203
72	Two types of hydrophobic aggregates in aqueous solutions of chitosan and its hydrophobic derivative. <i>Biomacromolecules</i> , 2001 , 2, 483-90	6.9	197
71	Water soluble derivatives obtained by controlled chemical modifications of chitosan. <i>Carbohydrate Polymers</i> , 1994 , 24, 209-214	10.3	192
70	Contribution to the study of the complexation of copper by chitosan and oligomers. <i>Polymer</i> , 2002 , 43, 1267-1276	3.9	166
69	Characterization of chitosan by steric exclusion chromatography. <i>Polymer</i> , 2001 , 42, 09921-09927	3.9	139
68	Chitosan for wastewater treatment. <i>Polymer International</i> , 2018 , 67, 7-14	3.3	99
67	Dynamic surface tension and dilational viscoelasticity of adsorption layers of a hydrophobically modified chitosan. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 255, 119-130	5.1	82
66	Investigation of different natural sources of chitin: influence of the source and deacetylation process on the physicochemical characteristics of chitosan. <i>Polymer International</i> , 2000 , 49, 337-344	3.3	80
65	New unsaturated derivatives of Xanthan gum: Synthesis and characterization. <i>Polymer</i> , 2007 , 48, 1921-1929	3.9	75
64	Structural characterization and antioxidant activity of water-soluble polysaccharides from the Tunisian brown seaweed <i>Cystoseira compressa</i> . <i>Carbohydrate Polymers</i> , 2018 , 198, 589-600	10.3	73
63	Synthesis and characterization of new unsaturated esters of Gellan Gum. <i>Carbohydrate Polymers</i> , 2008 , 71, 92-100	10.3	66
62	Interfacial properties of dynamic association between chitin derivatives and surfactants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999 , 147, 139-148	5.1	65

61	Autoassociative natural polymer derivatives: the alkylchitosans. Rheological behaviour and temperature stability. <i>Polymer</i> , 2004 , 45, 3285-3295	3.9	61
60	Stimuli-sensitive xanthan derivatives/N-isopropylacrylamide hydrogels: influence of cross-linking agent on interpenetrating polymer network properties. <i>Biomacromolecules</i> , 2009 , 10, 1911-22	6.9	54
59	Formation of an ordered nanostructure in surfactant-polyelectrolyte complexes formed by interfacial diffusion. <i>Polymer Bulletin</i> , 2000 , 45, 77-81	2.4	52
58	Synthesis and biological activity of some new 1,3,4-thiadiazole and 1,2,4-triazole compounds containing a phenylalanine moiety. <i>Molecules</i> , 2009 , 14, 2621-31	4.8	49
57	Dynamic surface tension and dilational viscoelasticity of adsorption layers of alkylated chitosans and surfactant-chitosan complexes. <i>Colloid and Polymer Science</i> , 2006 , 284, 745-754	2.4	48
56	Modulated release from liposomes entrapped in chitosan/gelatin hydrogels. <i>Materials Science and Engineering C</i> , 2014 , 43, 383-91	8.3	40
55	Physicochemical characterization of the layer-by-layer self-assembly of polyphenol oxidase and chitosan on glassy carbon electrode. <i>Electrochimica Acta</i> , 2005 , 50, 2865-2877	6.7	38
54	Low Molecular Weight Chitosan (LMWC)-based Polyplexes for pDNA Delivery: From Bench to Bedside. <i>Polymers</i> , 2014 , 6, 1727-1755	4.5	35
53	Interfacial properties of chitin and chitosan based systems. <i>Soft Matter</i> , 2010 , 6, 2358	3.6	30
52	Surface activity of water soluble amphiphilic chitin derivatives. <i>Polymer Bulletin</i> , 1997 , 39, 209-215	2.4	30
51	Interactions between quaternized chitosan and surfactant studied by diffusion NMR and conductivity. <i>Carbohydrate Polymers</i> , 2017 , 156, 182-192	10.3	27
50	Dynamic surface tension of hydrophobically modified chitosans. <i>Mendeleev Communications</i> , 2004 , 14, 66-68	1.9	27
49	Amphiphilic derivatives of chitosan using microwave irradiation. Toward an eco-friendly process to chitosan derivatives. <i>Carbohydrate Polymers</i> , 2015 , 116, 26-33	10.3	26
48	The effect of alkyl chain length of a polysoap on the surface activity of its complexes with cationic surfactants. <i>Mendeleev Communications</i> , 1997 , 7, 149-151	1.9	25
47	Dilational viscoelasticity and relaxation properties of interfacial electrostatic complexes between oppositely charged hydrophobic and hydrophilic polyelectrolytes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008 , 65, 43-9	6	25
46	Formulation and evaluation of cefuroxim loaded submicron particles for ophthalmic delivery. <i>International Journal of Pharmaceutics</i> , 2015 , 493, 16-29	6.5	23
45	Surface characterization and drug release from porous microparticles based on methacrylic monomers and xanthan. <i>Carbohydrate Polymers</i> , 2015 , 125, 323-33	10.3	22
44	Original stimuli-sensitive polysaccharide derivatives/N-isopropylacrylamide hydrogels. Role of polysaccharide backbone. <i>Carbohydrate Polymers</i> , 2012 , 89, 438-47	10.3	22

43	New highly-percolating alginate-PEI membranes for efficient recovery of chromium from aqueous solutions. <i>Carbohydrate Polymers</i> , 2019 , 225, 115177	10.3	20
42	Interfacial properties of amphiphilic natural polymer systems based on derivatives of chitin. <i>Polymer International</i> , 2006 , 55, 1177-1183	3.3	20
41	On the stiffness of chitosan hydrochloride in acid-free aqueous solutions. <i>Carbohydrate Polymers</i> , 2000 , 43, 351-357	10.3	20
40	Surfactant-polysaccharide complexes based on quaternized chitosan. Characterization and application to emulsion stability. <i>European Polymer Journal</i> , 2018 , 104, 128-135	5.2	20
39	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. <i>Environmental Microbiology</i> , 2017 , 19, 159-173	5.2	19
38	Thermodynamic investigation of thermoresponsive xanthan-poly (N-isopropylacrylamide) hydrogels. <i>Polymer International</i> , 2011 , 60, 1527-1534	3.3	18
37	Microwave synthesis: An alternative approach to synthesize conducting end-capped polymers. <i>Polymer</i> , 2011 , 52, 33-39	3.9	17
36	Dilational viscoelasticity of the adsorption layers of hydrophobically modified chitosans. <i>Mendeleev Communications</i> , 2005 , 15, 35-38	1.9	17
35	Magnetic microparticles based on natural polymers. <i>International Journal of Pharmaceutics</i> , 2011 , 404, 83-93	6.5	16
34	Reversible thermothickening of aqueous solutions of polycations from natural origin. <i>Macromolecular Symposia</i> , 1997 , 113, 135-149	0.8	15
33	Viscosimetric behaviour of hydrolyzed polyacrylamide-poly(4-vinylpyridine) [AD37-P4VP] mixture in aqueous solution. <i>European Polymer Journal</i> , 2007 , 43, 540-549	5.2	15
32	Formation of polyelectrolyte complexes in an organic solvent. <i>European Polymer Journal</i> , 1981 , 17, 1265-1269	5.2	15
31	Complex microparticulate systems based on glycidyl methacrylate and xanthan. <i>Carbohydrate Polymers</i> , 2014 , 104, 213-22	10.3	14
30	Alkyl-Chitosan-Based Adhesive: Water Resistance Improvement. <i>Molecules</i> , 2019 , 24,	4.8	13
29	Removal of copper ions from water of boilers by a modified natural based, corncobs. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 4637-4645	2.9	13
28	Oil removal from crude oil-in-saline water emulsions using chitosan as biosorbent. <i>Separation Science and Technology</i> , 2020 , 55, 835-847	2.5	12
27	Dilational rheology of air/water interfaces covered by nonionic amphiphilic polysaccharides. Correlation with stability of oil-in-water emulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 441, 312-318	5.1	11
26	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

25	Microwave-assisted modifications of polysaccharides. <i>Pure and Applied Chemistry</i> , 2014 , 86, 1695-1706	2.1	10
24	Interfacial properties of amphiphilic systems on the basis of natural polymers—chitin derivatives. <i>Russian Journal of General Chemistry</i> , 2008 , 78, 2230-2238	0.7	10
23	Extensive N-methylation of chitosan: evaluating the effects of the reaction conditions by using response surface methodology. <i>Polymer International</i> , 2015 , 64, 1617-1626	3.3	9
22	Synthesis and Antimicrobial Activity of New Derivatives of 1,3,4-Thiadiazoles and 1,2,4-Triazoles with 5-Nitroindazole as Support. <i>Journal of Heterocyclic Chemistry</i> , 2013 , 50, 366-372	1.9	9
21	Valorization of chitins extracted from North Morocco shrimps: Comparison of chitin reactivity and characteristics. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47804	2.9	8
20	Thermosensitive Microparticles Based on Unsaturated Esters of some Poly- and Oligosaccharides: Preparation, Characterization, Drug Inclusion and Release. <i>Macromolecular Symposia</i> , 2010 , 297, 114-125	0.8	8
19	Structural Features and Rheological Properties of a Sulfated Xylogalactan-Rich Fraction Isolated from Tunisian Red Seaweed <i>Jania adhaerens</i> . <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1655	2.6	7
18	Wood Protective Fungicidal Treatment: Quaternary Ammonium Molecules Grafting on Cellulose Assisted by Afterglows at Atmospheric Pressure. <i>Plasma Processes and Polymers</i> , 2013 , 10, 150-160	3.4	7
17	The Benefits of Smart Nanoparticles in Dental Applications. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	7
16	Neutralization degree effect on viscosimetric behaviour of hydrolyzed polyacrylamide-poly(4-vinylpyridine) [AD37-P4VP] mixture in aqueous solution. <i>Polymer Bulletin</i> , 2008 , 61, 771-777	2.4	6
15	Deborah number for the viscoelasticity of adsorption layers of amphiphilic polyelectrolytes. <i>Mendeleev Communications</i> , 2005 , 15, 190-191	1.9	6
14	Thermo-sensitive gellan maleate/N-isopropylacrylamide hydrogels: initial <i>in vitro</i> and <i>in vivo</i> evaluation as ocular inserts. <i>Polymer Bulletin</i> , 2020 , 77, 741-755	2.4	6
13	Chemically Modified Polysaccharides With Applications in Nanomedicine 2018 , 351-399		5
12	Polyelectrolyte complex—surfactant interactions: effect of neutralization degree on viscometric behaviour in aqueous solution. <i>Polymer Bulletin</i> , 2013 , 70, 97-103	2.4	5
11	Dilational rheology and relaxation properties of the adsorption layers of electrostatic complexes between Eudragit RS and chitosan sulfate at the methylene chloride/water interface. <i>Mendeleev Communications</i> , 2008 , 18, 35-37	1.9	5
10	Using full-factorial design analysis and response surface methodology to better understand the production of cationized chitosan from epoxides. <i>Polymer International</i> , 2016 , 65, 811-819	3.3	5
9	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
8	Chemically modified xanthan and gellan for preparation of biomaterials for ophthalmic applications. <i>Polymer International</i> , 2020 , 69, 1051-1057	3.3	4

7	Sulfonic Derivatives of 2-Mercaptobenzoxazole and Its Conjugates with Poly(Maleic anhydride-alt-vinyl acetate) with Potential Pharmacological Applications. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2014 , 63, 268-276	3	3
6	New Grafted Copolymers Carrying Betaine Units Based on Gellan and N-Vinylimidazole as Precursors for Design of Drug Delivery Systems. <i>Molecules</i> , 2020 , 25,	4.8	3
5	Coupling Raman spectroscopy and drop tensiometry for in situ monitoring of radical polymerization in a single monomer droplet. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 2046-2049	2.3	3
4	Amphiphilic Systems as Biomaterials Based on Chitin, Chitosan, and Their Derivatives 2013 , 243-270		2
3	Immobilization and Release Studies of Triazole Derivatives from Grafted Copolymer Based on Gellan-Carrying Betaine Units. <i>Molecules</i> , 2021 , 26,	4.8	2
2	Application of Chitosan-Based Formulations in Controlled Drug Delivery. <i>Sustainable Agriculture Reviews</i> , 2019 , 241-314	1.3	1
1	Investigation of Echin extracted from cuttlefish: comparison with squid Echin. <i>Polymer Bulletin</i> , 2020 , 1	2.4	0