

# Jacques Desbrires

## List of Publications by Year in Descending Order

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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.

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|-------------------|-------------------------|----------------|-----------------|
| 78<br>papers      | 3,667<br>citations      | 27<br>h-index  | 60<br>g-index   |
| 80<br>ext. papers | 3,946<br>ext. citations | 4.6<br>avg, IF | 5.24<br>L-index |

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 78 | The Benefits of Smart Nanoparticles in Dental Applications. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,   | 6.3  | 7         |
| 77 | Immobilization and Release Studies of Triazole Derivatives from Grafted Copolymer Based on Gellan-Carrying Betaine Units. <i>Molecules</i> , <b>2021</b> , 26,   | 4.8  | 2         |
| 76 | 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> , <b>2020</b> , 10, 1655 | 2.6  | 7         |
| 75 | Chemically modified xanthan and gellan for preparation of biomaterials for ophthalmic applications. <i>Polymer International</i> , <b>2020</b> , 69, 1051-1057   | 3.3  | 4         |
| 74 | New Grafted Copolymers Carrying Betaine Units Based on Gellan and N-Vinylimidazole as Precursors for Design of Drug Delivery Systems. <i>Molecules</i> , <b>2020</b> , 25,   | 4.8  | 3         |
| 73 | Investigation of Echin extracted from cuttlefish: comparison with squid Echin. <i>Polymer Bulletin</i> , <b>2020</b> , 1   | 2.4  | 0         |
| 72 | Oil removal from crude oil-in-saline water emulsions using chitosan as biosorbent. <i>Separation Science and Technology</i> , <b>2020</b> , 55, 835-847  | 2.5  | 12        |
| 71 | 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> , <b>2020</b> , 77, 741-755                      | 2.4  | 6         |
| 70 | Application of Chitosan-Based Formulations in Controlled Drug Delivery. <i>Sustainable Agriculture Reviews</i> , <b>2019</b> , 241-314   | 1.3  | 1         |
| 69 | Alkyl-Chitosan-Based Adhesive: Water Resistance Improvement. <i>Molecules</i> , <b>2019</b> , 24,  | 4.8  | 13        |
| 68 | Valorization of chitins extracted from North Morocco shrimps: Comparison of chitin reactivity and characteristics. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47804                            | 2.9  | 8         |
| 67 | New highly-percolating alginate-PEI membranes for efficient recovery of chromium from aqueous solutions. <i>Carbohydrate Polymers</i> , <b>2019</b> , 225, 115177  | 10.3 | 20        |
| 66 | Chitosan for wastewater treatment. <i>Polymer International</i> , <b>2018</b> , 67, 7-14   | 3.3  | 99        |
| 65 | Chemically Modified Polysaccharides With Applications in Nanomedicine <b>2018</b> , 351-399  |      | 5         |
| 64 | Coupling Raman spectroscopy and drop tensiometry for in situ monitoring of radical polymerization in a single monomer droplet. <i>Journal of Raman Spectroscopy</i> , <b>2018</b> , 49, 2046-2049                  | 2.3  | 3         |
| 63 | Surfactant-polysaccharide complexes based on quaternized chitosan. Characterization and application to emulsion stability. <i>European Polymer Journal</i> , <b>2018</b> , 104, 128-135                            | 5.2  | 20        |
| 62 | Structural characterization and antioxidant activity of water-soluble polysaccharides from the Tunisian brown seaweed <i>Cystoseira compressa</i> . <i>Carbohydrate Polymers</i> , <b>2018</b> , 198, 589-600      | 10.3 | 73        |

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|----|--|------|----|
| 61 | 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> , <b>2017</b> , 19, 159-173        | 5.2  | 19 |
| 60 | Interactions between quaternized chitosan and surfactant studied by diffusion NMR and conductivity. <i>Carbohydrate Polymers</i> , <b>2017</b> , 156, 182-192  | 10.3 | 27 |
| 59 | Using full-factorial design analysis and response surface methodology to better understand the production of cationized chitosan from epoxides. <i>Polymer International</i> , <b>2016</b> , 65, 811-819   | 3.3  | 5  |
| 58 | Formulation and evaluation of cefuroxim loaded submicron particles for ophthalmic delivery. <i>International Journal of Pharmaceutics</i> , <b>2015</b> , 493, 16-29   | 6.5  | 23 |
| 57 | Amphiphilic derivatives of chitosan using microwave irradiation. Toward an eco-friendly process to chitosan derivatives. <i>Carbohydrate Polymers</i> , <b>2015</b> , 116, 26-33   | 10.3 | 26 |
| 56 | Extensive N-methylation of chitosan: evaluating the effects of the reaction conditions by using response surface methodology. <i>Polymer International</i> , <b>2015</b> , 64, 1617-1626   | 3.3  | 9  |
| 55 | Surface characterization and drug release from porous microparticles based on methacrylic monomers and xanthan. <i>Carbohydrate Polymers</i> , <b>2015</b> , 125, 323-33   | 10.3 | 22 |
| 54 | Modulated release from liposomes entrapped in chitosan/gelatin hydrogels. <i>Materials Science and Engineering C</i> , <b>2014</b> , 43, 383-91  | 8.3  | 40 |
| 53 | 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> , <b>2014</b> , 63, 268-276 | 3    | 3  |
| 52 | 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> , <b>2014</b> , 441, 312-318                | 5.1  | 11 |
| 51 | Low Molecular Weight Chitosan (LMWC)-based Polyplexes for pDNA Delivery: From Bench to Bedside. <i>Polymers</i> , <b>2014</b> , 6, 1727-1755   | 4.5  | 35 |
| 50 | Microwave-assisted modifications of polysaccharides. <i>Pure and Applied Chemistry</i> , <b>2014</b> , 86, 1695-1706   | 2.1  | 10 |
| 49 | Complex microparticulate systems based on glycidyl methacrylate and xanthan. <i>Carbohydrate Polymers</i> , <b>2014</b> , 104, 213-22  | 10.3 | 14 |
| 48 | Polyelectrolyte complex-surfactant interactions: effect of neutralization degree on viscometric behaviour in aqueous solution. <i>Polymer Bulletin</i> , <b>2013</b> , 70, 97-103  | 2.4  | 5  |
| 47 | 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 |
| 46 | 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> , <b>2013</b> , 50, 366-372  | 1.9  | 9  |
| 45 | 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  |
| 44 | Wood Protective Fungicidal Treatment: Quaternary Ammonium Molecules Grafting on Cellulose Assisted by Afterglows at Atmospheric Pressure. <i>Plasma Processes and Polymers</i> , <b>2013</b> , 10, 150-160   | 3.4  | 7  |

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| 43 | Amphiphilic Systems as Biomaterials Based on Chitin, Chitosan, and Their Derivatives <b>2013</b> , 243-270  |      | 2  |
| 42 | Original stimuli-sensitive polysaccharide derivatives/N-isopropylacrylamide hydrogels. Role of polysaccharide backbone. <i>Carbohydrate Polymers</i> , <b>2012</b> , 89, 438-47   | 10.3 | 22 |
| 41 | Magnetic microparticles based on natural polymers. <i>International Journal of Pharmaceutics</i> , <b>2011</b> , 404, 83-93   | 6.5  | 16 |
| 40 | Thermodynamic investigation of thermoresponsive xanthan-poly (N-isopropylacrylamide) hydrogels. <i>Polymer International</i> , <b>2011</b> , 60, 1527-1534  | 3.3  | 18 |
| 39 | Microwave synthesis: An alternative approach to synthesize conducting end-capped polymers. <i>Polymer</i> , <b>2011</b> , 52, 33-39   | 3.9  | 17 |
| 38 | Thermosensitive Microparticles Based on Unsaturated Esters of some Poly- and Oligosaccharides: Preparation, Characterization, Drug Inclusion and Release. <i>Macromolecular Symposia</i> , <b>2010</b> , 297, 114-125                           | 0.8  | 8  |
| 37 | Interfacial properties of chitin and chitosan based systems. <i>Soft Matter</i> , <b>2010</b> , 6, 2358   | 3.6  | 30 |
| 36 | Stimuli-sensitive xanthan derivatives/N-isopropylacrylamide hydrogels: influence of cross-linking agent on interpenetrating polymer network properties. <i>Biomacromolecules</i> , <b>2009</b> , 10, 1911-22                                    | 6.9  | 54 |
| 35 | Synthesis and biological activity of some new 1,3,4-thiadiazole and 1,2,4-triazole compounds containing a phenylalanine moiety. <i>Molecules</i> , <b>2009</b> , 14, 2621-31  | 4.8  | 49 |
| 34 | Neutralization degree effect on viscosimetric behaviour of hydrolyzed polyacrylamide-poly(4-vinylpyridine) [AD37-P4VP] mixture in aqueous solution. <i>Polymer Bulletin</i> , <b>2008</b> , 61, 771-777   | 2.4  | 6  |
| 33 | 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> , <b>2008</b> , 18, 35-37 | 1.9  | 5  |
| 32 | Dilational viscoelasticity and relaxation properties of interfacial electrostatic complexes between oppositely charged hydrophobic and hydrophilic polyelectrolytes. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2008</b> , 65, 43-9     | 6    | 25 |
| 31 | Synthesis and characterization of new unsaturated esters of Gellan Gum. <i>Carbohydrate Polymers</i> , <b>2008</b> , 71, 92-100   | 10.3 | 66 |
| 30 | Interfacial properties of amphiphilic systems on the basis of natural polymers-chitin derivatives. <i>Russian Journal of General Chemistry</i> , <b>2008</b> , 78, 2230-2238  | 0.7  | 10 |
| 29 | Viscosimetric behaviour of hydrolyzed polyacrylamide-poly(4-vinylpyridine) [AD37-P4VP] mixture in aqueous solution. <i>European Polymer Journal</i> , <b>2007</b> , 43, 540-549   | 5.2  | 15 |
| 28 | New unsaturated derivatives of Xanthan gum: Synthesis and characterization. <i>Polymer</i> , <b>2007</b> , 48, 1921-1929  | 3.9  | 75 |
| 27 | Removal of copper ions from water of boilers by a modified natural based, corncobs. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 102, 4637-4645  | 2.9  | 13 |
| 26 | Interfacial properties of amphiphilic natural polymer systems based on derivatives of chitin. <i>Polymer International</i> , <b>2006</b> , 55, 1177-1183  | 3.3  | 20 |

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|----|--|------|-----|
| 25 | Dynamic surface tension and dilational viscoelasticity of adsorption layers of alkylated chitosans and surfactant-chitosan complexes. <i>Colloid and Polymer Science</i> , <b>2006</b> , 284, 745-754                    | 2.4  | 48  |
| 24 | Dynamic surface tension and dilational viscoelasticity of adsorption layers of a hydrophobically modified chitosan. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2005</b> , 255, 119-130 | 5.1  | 82  |
| 23 | Physicochemical characterization of the layer-by-layer self-assembly of polyphenol oxidase and chitosan on glassy carbon electrode. <i>Electrochimica Acta</i> , <b>2005</b> , 50, 2865-2877                             | 6.7  | 38  |
| 22 | Dilational viscoelasticity of the adsorption layers of hydrophobically modified chitosans. <i>Mendeleev Communications</i> , <b>2005</b> , 15, 35-38   | 1.9  | 17  |
| 21 | Deborah number for the viscoelasticity of adsorption layers of amphiphilic polyelectrolytes. <i>Mendeleev Communications</i> , <b>2005</b> , 15, 190-191   | 1.9  | 6   |
| 20 | Dynamic surface tension of hydrophobically modified chitosans. <i>Mendeleev Communications</i> , <b>2004</b> , 14, 66-68   | 1.9  | 27  |
| 19 | Autoassociative natural polymer derivatives: the alkylchitosans. Rheological behaviour and temperature stability. <i>Polymer</i> , <b>2004</b> , 45, 3285-3295   | 3.9  | 61  |
| 18 | Contribution to the preparation of chitins and chitosans with controlled physico-chemical properties. <i>Polymer</i> , <b>2003</b> , 44, 7939-7952   | 3.9  | 203 |
| 17 | Contribution to the study of the complexation of copper by chitosan and oligomers. <i>Polymer</i> , <b>2002</b> , 43, 1267-1276  | 3.9  | 166 |
| 16 | Influence of the nature of the metal ions on the complexation with chitosan.. <i>European Polymer Journal</i> , <b>2002</b> , 38, 1523-1530  | 5.2  | 217 |
| 15 | Characterization of chitosan by steric exclusion chromatography. <i>Polymer</i> , <b>2001</b> , 42, 09921-09927  | 3.9  | 139 |
| 14 | Two types of hydrophobic aggregates in aqueous solutions of chitosan and its hydrophobic derivative. <i>Biomacromolecules</i> , <b>2001</b> , 2, 483-90  | 6.9  | 197 |
| 13 | Investigation of different natural sources of chitin: influence of the source and deacetylation process on the physicochemical characteristics of chitosan. <i>Polymer International</i> , <b>2000</b> , 49, 337-344     | 3.3  | 80  |
| 12 | On the stiffness of chitosan hydrochloride in acid-free aqueous solutions. <i>Carbohydrate Polymers</i> , <b>2000</b> , 43, 351-357  | 10.3 | 20  |
| 11 | On the influence of deacetylation process on the physicochemical characteristics of chitosan from squid chitin. <i>Polymer</i> , <b>2000</b> , 41, 2463-2469   | 3.9  | 227 |
| 10 | Solid state NMR for determination of degree of acetylation of chitin and chitosan. <i>Biomacromolecules</i> , <b>2000</b> , 1, 746-51  | 6.9  | 252 |
| 9  | Formation of an ordered nanostructure in surfactant-polyelectrolyte complexes formed by interfacial diffusion. <i>Polymer Bulletin</i> , <b>2000</b> , 45, 77-81   | 2.4  | 52  |
| 8  | Interfacial properties of dynamic association between chitin derivatives and surfactants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>1999</b> , 147, 139-148                           | 5.1  | 65  |

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|---|---|------|-----|
| 7 | Thermogelation of methylcelluloses: new evidence for understanding the gelation mechanism. <i>Polymer</i> , <b>1998</b> , 39, 6251-6259                                       | 3.9  | 210 |
| 6 | Reversible thermothickening of aqueous solutions of polycations from natural origin. <i>Macromolecular Symposia</i> , <b>1997</b> , 113, 135-149                              | 0.8  | 15  |
| 5 | The effect of alkyl chain length of a polysoap on the surface activity of its complexes with cationic surfactants. <i>Mendeleev Communications</i> , <b>1997</b> , 7, 149-151 | 1.9  | 25  |
| 4 | Surface activity of water soluble amphiphilic chitin derivatives. <i>Polymer Bulletin</i> , <b>1997</b> , 39, 209-215   | 2.4  | 30  |
| 3 | Hydrophobic derivatives of chitosan: characterization and rheological behaviour. <i>International Journal of Biological Macromolecules</i> , <b>1996</b> , 19, 21-8           | 7.9  | 270 |
| 2 | Water soluble derivatives obtained by controlled chemical modifications of chitosan. <i>Carbohydrate Polymers</i> , <b>1994</b> , 24, 209-214                                 | 10.3 | 192 |
| 1 | Formation of polyelectrolyte complexes in an organic solvent. <i>European Polymer Journal</i> , <b>1981</b> , 17, 1265-1269   | 15   | 15  |