

Jean-Luc Putaux

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215
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ext. papers

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ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
215	Homogeneous suspensions of individualized microfibrils from TEMPO-catalyzed oxidation of native cellulose. <i>Biomacromolecules</i> , 2006 , 7, 1687-91	6.9	1291
214	The shape and size distribution of crystalline nanoparticles prepared by acid hydrolysis of native cellulose. <i>Biomacromolecules</i> , 2008 , 9, 57-65	6.9	892
213	Measurement of the displacement field of dislocations to 0.03 Å by electron microscopy. <i>Nature</i> , 2003 , 423, 270-3	50.4	424
212	Aqueous Dispersions of Silane-Functionalized Laponite Clay Platelets. A First Step toward the Elaboration of Water-Based Polymer/Clay Nanocomposites. <i>Langmuir</i> , 2004 , 20, 1564-1571	4	358
211	Cellulose microfibrils from banana rachis: Effect of alkaline treatments on structural and morphological features. <i>Carbohydrate Polymers</i> , 2009 , 76, 51-59	10.3	305
210	Platelet nanocrystals resulting from the disruption of waxy maize starch granules by acid hydrolysis. <i>Biomacromolecules</i> , 2003 , 4, 1198-202	6.9	262
209	Structural characterization of bacterial cellulose produced by <i>Gluconacetobacter swingsii</i> sp. from Colombian agroindustrial wastes. <i>Carbohydrate Polymers</i> , 2011 , 84, 96-102	10.3	260
208	Preparation by grafting onto, characterization, and properties of thermally responsive polymer-decorated cellulose nanocrystals. <i>Biomacromolecules</i> , 2010 , 11, 3652-9	6.9	192
207	Cellulose microfibrils from banana farming residues: isolation and characterization. <i>Cellulose</i> , 2007 , 14, 585-592	5.5	169
206	Processing and characterization of carbon nanotube/poly(styrene-co-butyl acrylate) nanocomposites. <i>Journal of Materials Science</i> , 2002 , 37, 3915-3923	4.3	167
205	Effects of the environmental factors on the casein micelle structure studied by cryo transmission electron microscopy and small-angle x-ray scattering/ultrasmall-angle x-ray scattering. <i>Journal of Chemical Physics</i> , 2007 , 126, 045101	3.9	165
204	Bacterial cellulose produced by a new acid-resistant strain of <i>Gluconacetobacter</i> genus. <i>Carbohydrate Polymers</i> , 2012 , 89, 1033-7	10.3	143
203	Preparation, morphology and structure of cellulose nanocrystals from bamboo fibers. <i>Cellulose</i> , 2012 , 19, 1527-1536	5.5	141
202	Orientation of native cellulose in an electric field. <i>Langmuir</i> , 2006 , 22, 4899-901	4	134
201	Metabolic symbiosis and the birth of the plant kingdom. <i>Molecular Biology and Evolution</i> , 2008 , 25, 536-483	4.3	132
200	Formation of polymer vesicles by simultaneous chain growth and self-assembly of amphiphilic block copolymers. <i>Chemical Communications</i> , 2009 , 2887-9	5.8	130
199	Mechanical properties of natural rubber nanocomposites reinforced with high aspect ratio cellulose nanocrystals isolated from soy hulls. <i>Carbohydrate Polymers</i> , 2016 , 153, 143-152	10.3	125

198	In vitro versus in vivo cellulose microfibrils from plant primary wall synthases: structural differences. <i>Journal of Biological Chemistry</i> , 2002 , 277, 36931-9	5.4	122
197	Poly(l-proline) interactions with flavan-3-ols units: Influence of the molecular structure and the polyphenol/protein ratio. <i>Food Hydrocolloids</i> , 2006 , 20, 687-697	10.6	118
196	Self-Association and Crystallization of Amylose. <i>Australian Journal of Chemistry</i> , 2007 , 60, 706	1.2	109
195	Amylose synthesized in vitro by amylosucrase: morphology, structure, and properties. <i>Biomacromolecules</i> , 2005 , 6, 1000-11	6.9	106
194	Crystal Structure of A-amylose: A Revisit from Synchrotron Microdiffraction Analysis of Single Crystals. <i>Macromolecules</i> , 2009 , 42, 1167-1174	5.5	103
193	Plastidial phosphorylase is required for normal starch synthesis in <i>Chlamydomonas reinhardtii</i> . <i>Plant Journal</i> , 2006 , 48, 274-85	6.9	93
192	Synthesis of polymer/Laponite nanocomposite latex particles via emulsion polymerization using silylated and cation-exchanged Laponite clay platelets. <i>Progress in Solid State Chemistry</i> , 2006 , 34, 121-137	8	91
191	Structural Aspects of the Swelling of β -Chitin in HCl and its Conversion into α -Chitin. <i>Macromolecules</i> , 1997 , 30, 3867-3873	5.5	87
190	Crystal structure of amylose complexes with small ligands. <i>International Journal of Biological Macromolecules</i> , 2003 , 33, 227-34	7.9	87
189	Polymer/Laponite Composite Colloids through Emulsion Polymerization: Influence of the Clay Modification Level on Particle Morphology. <i>Macromolecules</i> , 2006 , 39, 9177-9184	5.5	85
188	Starch Nanocrystal Fillers in an Acrylic Polymer Matrix. <i>Macromolecular Symposia</i> , 2005 , 221, 95-104	0.8	84
187	Silicone-polyacrylate composite latex particles. Particles formation and film properties. <i>Polymer</i> , 2005 , 46, 1331-1337	3.9	84
186	Network Formation in Dilute Amylose and Amylopectin Studied by TEM. <i>Macromolecules</i> , 2000 , 33, 6416-6422	5.9	80
185	Reorientation of cellulose nanowhiskers in agarose hydrogels under tensile loading. <i>Biomacromolecules</i> , 2012 , 13, 850-6	6.9	77
184	Polymer/Laponite Composite Latexes: Particle Morphology, Film Microstructure, and Properties. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 1567-1573	4.8	77
183	Flavan-3-ol Aggregation in Model Ethanolic Solutions: Incidence of Polyphenol Structure, Concentration, Ethanol Content, and Ionic Strength. <i>Langmuir</i> , 2003 , 19, 10563-10572	4	76
182	<i>Gluconacetobacter medellinensis</i> sp. nov., cellulose- and non-cellulose-producing acetic acid bacteria isolated from vinegar. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013 , 63, 1119-1125	2.2	74
181	The molecular structure of waxy maize starch nanocrystals. <i>Carbohydrate Research</i> , 2009 , 344, 1558-66	2.9	73

180	Polyester nanoparticles presenting mannose residues: toward the development of new vaccine delivery systems combining biodegradability and targeting properties. <i>Biomacromolecules</i> , 2009 , 10, 651-7	6.9	73
179	Self-assembling and chiral nematic properties of organophilic cellulose nanocrystals. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 11069-75	3.4	73
178	Structural data on the intra-crystalline swelling of beta-chitin. <i>International Journal of Biological Macromolecules</i> , 2000 , 28, 81-8	7.9	73
177	Ultrastructural aspects of phytoglycogen from cryo-transmission electron microscopy and quasi-elastic light scattering data. <i>International Journal of Biological Macromolecules</i> , 1999 , 26, 145-50	7.9	64
176	Alpha-D-glucan-based dendritic nanoparticles prepared by in vitro enzymatic chain extension of glycogen. <i>Biomacromolecules</i> , 2006 , 7, 1720-8	6.9	63
175	Anisotropy of structure and transport properties in sulfonated polyimide membranes. <i>Journal of Membrane Science</i> , 2003 , 214, 31-42	9.6	62
174	Surface modification of cellulose microfibrils by periodate oxidation and subsequent reductive amination with benzylamine: a topochemical study. <i>Cellulose</i> , 2014 , 21, 4119-4133	5.5	61
173	Mesoporous self-assembled nanoparticles of biotransesterified cyclodextrins and nonlamellar lipids as carriers of water-insoluble substances. <i>Soft Matter</i> , 2016 , 12, 7539-7550	3.6	60
172	Comprehensive morphological and structural investigation of cellulose I and II nanocrystals prepared by sulphuric acid hydrolysis. <i>RSC Advances</i> , 2016 , 6, 76017-76027	3.7	59
171	Cerium oxide encapsulation by emulsion polymerization using hydrophilic macroRAFT agents. <i>Polymer Chemistry</i> , 2013 , 4, 607-614	4.9	58
170	Silica encapsulation by miniemulsion polymerization: distribution and localization of the silica particles in droplets and latex particles. <i>Langmuir</i> , 2012 , 28, 6021-31	4	57
169	Influence of alkali concentration on the deproteinization and/or gelatinization of rice starch. <i>Carbohydrate Polymers</i> , 2007 , 70, 160-165	10.3	56
168	Nanoparticles of beta-cyclodextrin esters obtained by self-assembling of biotransesterified beta-cyclodextrins. <i>Biomacromolecules</i> , 2006 , 7, 515-20	6.9	56
167	Molecular and Crystal Structures of Inulin from Electron Diffraction Data. <i>Macromolecules</i> , 1996 , 29, 4626-4635	5.5	56
166	Role of double-hydrophilic block copolymers in the synthesis of lanthanum-based nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003 , 217, 179-184	5.1	53
165	Single crystals of V-amylose complexed with alpha-naphthol. <i>Biomacromolecules</i> , 2007 , 8, 1319-26	6.9	52
164	Biosynthesis of (1-->3)-beta-D-glucan (callose) by detergent extracts of a microsomal fraction from <i>Arabidopsis thaliana</i> . <i>FEBS Journal</i> , 2001 , 268, 4628-38		52
163	Rheological Properties and Electrospinnability of High-Amylose Starch in Formic Acid. <i>Biomacromolecules</i> , 2015 , 16, 2529-36	6.9	50

162	THE CHITINOUS NATURE OF FILAMENTS EJECTED BY PHAEOCYSTIS (PRYMNESIOPHYCEAE)1. <i>Journal of Phycology</i> , 1997 , 33, 666-672	3	50
161	Kinetics of fibril formation of bovine kappa-casein indicate a conformational rearrangement as a critical step in the process. <i>Journal of Molecular Biology</i> , 2008 , 381, 1267-80	6.5	50
160	Geometric phase analysis of lattice images from algal cellulose microfibrils. <i>Polymer</i> , 2003 , 44, 1871-1879	9.9	50
159	From Sunflower-like Assemblies toward Giant Wormlike Micelles. <i>Langmuir</i> , 2003 , 19, 6-9	4	50
158	Design of a reduced-graphene-oxide composite electrode from an electropolymerizable graphene aqueous dispersion using a cyclodextrin-pyrrole monomer. Application to dopamine biosensing. <i>Electrochimica Acta</i> , 2015 , 178, 108-112	6.7	49
157	Characterization of substrate and product specificity of the purified recombinant glycogen branching enzyme of <i>Rhodothermus obamensis</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 2167-77	4	49
156	Molecular and Crystal Structure of 7-Fold V-Amylose Complexed with 2-Propanol. <i>Macromolecules</i> , 2010 , 43, 8628-8636	5.5	49
155	Nature of the periplastidial pathway of starch synthesis in the cryptophyte <i>Guillardia theta</i> . <i>Eukaryotic Cell</i> , 2006 , 5, 954-63		49
154	Highly stable metal hydroxide colloids by inorganic polycondensation in suspension. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 3681-5	16.4	49
153	HREM study of self-accommodated thermal martensite in an Fe-Mn-Si-Cr-Ni shape memory alloy. <i>Acta Materialia</i> , 1996 , 44, 1701-1716	8.4	49
152	Synthesis and Characterization of Water-Soluble Amphipatic Polystyrene-Based Dendrigrfts. <i>Macromolecules</i> , 2003 , 36, 5776-5783	5.5	47
151	The plastid division proteins, FtsZ1 and FtsZ2, differ in their biochemical properties and sub-plastidial localization. <i>Biochemical Journal</i> , 2005 , 387, 669-76	3.8	47
150	Influence of combined mechanical treatments on the morphology and structure of cellulose nanofibrils: Thermal and mechanical properties of the resulting films. <i>Industrial Crops and Products</i> , 2016 , 85, 1-10	5.9	46
149	Variation in storage alpha-glucans of the Porphyridiales (Rhodophyta). <i>Plant and Cell Physiology</i> , 2008 , 49, 103-16	4.9	46
148	Stress and strain around grain-boundary dislocations measured by high-resolution electron microscopy. <i>Philosophical Magazine</i> , 2006 , 86, 4641-4656	1.6	46
147	Synthesis and characterisation of novel nanospheres made from amphiphilic perfluoroalkylthio-beta-cyclodextrins. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2005 , 60, 123-31	5.7	46
146	Single crystals of inulin. <i>International Journal of Biological Macromolecules</i> , 1996 , 18, 195-204	7.9	46
145	Influence of the acid type in the production of chitosan films reinforced with bacterial nanocellulose. <i>International Journal of Biological Macromolecules</i> , 2014 , 69, 208-13	7.9	45

144	High solids content, soap-free, film-forming latexes stabilized by laponite clay platelets. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 1874-80	4.8	45
143	Pathway of cytosolic starch synthesis in the model glaucophyte <i>Cyanophora paradoxa</i> . <i>Eukaryotic Cell</i> , 2008 , 7, 247-57		43
142	Mannosylated poly(ethylene oxide)-b-poly(epsilon-caprolactone) diblock copolymers: synthesis, characterization, and interaction with a bacterial lectin. <i>Biomacromolecules</i> , 2007 , 8, 2717-25	6.9	43
141	Tunable Aggregation and Gelation of Thermoresponsive Suspensions of Polymer-Grafted Cellulose Nanocrystals. <i>Biomacromolecules</i> , 2016 , 17, 2112-9	6.9	43
140	B->A Allomorphic transition in native starch and amylose spherocrystals monitored by in situ synchrotron X-ray diffraction. <i>Biomacromolecules</i> , 2010 , 11, 76-87	6.9	42
139	Nanofibrillar cellulose from <i>Posidonia oceanica</i> : Properties and morphological features. <i>Industrial Crops and Products</i> , 2015 , 72, 97-106	5.9	41
138	Synthesis of PEDOT Nanoparticles and Vesicles by Dispersion Polymerization in Alcoholic Media. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 1446-1453	4.8	41
137	Stabilization of miniemulsion droplets by cerium oxide nanoparticles: a step toward the elaboration of armored composite latexes. <i>Langmuir</i> , 2012 , 28, 6163-74	4	40
136	Influence of chemical structure of amphiphilic beta-cyclodextrins on their ability to form stable nanoparticles. <i>International Journal of Pharmaceutics</i> , 2002 , 242, 301-5	6.5	40
135	Effect of the polymer nature on the structural organization of lipid/polymer particle assemblies. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 13812-22	3.4	39
134	Surface peeling of cellulose nanocrystals resulting from periodate oxidation and reductive amination with water-soluble polymers. <i>Cellulose</i> , 2015 , 22, 3701-3714	5.5	38
133	Long-term shelf stability of amphiphilic beta-cyclodextrin nanosphere suspensions monitored by dynamic light scattering and cryo-transmission electron microscopy. <i>Journal of Microencapsulation</i> , 2004 , 21, 607-13	3.4	38
132	In vitro model assemblies to study the impact of lignin-carbohydrate interactions on the enzymatic conversion of xylan. <i>Biomacromolecules</i> , 2009 , 10, 2489-98	6.9	37
131	Split crystallization during debranching of maltodextrins at high concentration by isoamylase. <i>Biomacromolecules</i> , 2004 , 5, 1792-8	6.9	37
130	Molecular containers based on amphiphilic PS-b-PMVE dendrigraft copolymers: topology, organization, and aqueous solution properties. <i>Journal of the American Chemical Society</i> , 2005 , 127, 2990-8	16.4	36
129	Glucose slows down the heat-induced aggregation of lactoglobulin at neutral pH. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 214-9	5.7	35
128	Genetic dissection of floridean starch synthesis in the cytosol of the model dinoflagellate <i>Cryptocodinium cohnii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21126-30	11.5	34
127	Surface Assisted Nucleation and Growth of Polymer Latexes on Organically-Modified Inorganic Particles. <i>Macromolecular Symposia</i> , 2005 , 229, 32-46	0.8	34

126	Self-assembly of biodegradable copolyester and reactive HPMA-based polymers into nanoparticles as an alternative stealth drug delivery system. <i>Soft Matter</i> , 2012 , 8, 9563	3.6	33
125	Characterization of arabinoxylan-dehydrogenation polymer (synthetic lignin polymer) nanoparticles. <i>Biomacromolecules</i> , 2007 , 8, 1236-45	6.9	33
124	Effect of Cyclization of Polystyrene/Polyisoprene Block Copolymers on Their Micellar Morphology. <i>Macromolecular Rapid Communications</i> , 2002 , 23, 978-982	4.8	33
123	Structure and characterization of the dislocations in tilt grain boundaries between β -1 and β -3; a high resolution electron microscopy study. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993 , 164, 93-100	5.3	33
122	The architecture of lipid droplets in the diatom <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , 2019 , 38, 101415	5	33
121	Rubber materials from elastomers and nanocellulose powders: filler dispersion and mechanical reinforcement. <i>Soft Matter</i> , 2018 , 14, 2638-2648	3.6	32
120	Preparation of aqueous anionic poly-(urethane-urea) dispersions: Influence of the nature and proportion of the urethane groups on the dispersion and polymer properties. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 700-710	2.9	32
119	Assessment of the encapsulation effect of phenolic compounds from <i>Spirulina</i> sp. LEB-18 on their antifusarium activities. <i>Food Chemistry</i> , 2016 , 211, 616-23	8.5	32
118	The heterotrophic dinoflagellate <i>Cryptocodinium cohnii</i> defines a model genetic system to investigate cytoplasmic starch synthesis. <i>Eukaryotic Cell</i> , 2008 , 7, 872-80		31
117	Morphology of the nanocellulose produced by periodate oxidation and reductive treatment of cellulose fibers. <i>Cellulose</i> , 2018 , 25, 3899-3911	5.5	31
116	Synthesis of polymer latex particles decorated with organically-modified laponite clay platelets via emulsion polymerization. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 421-31	1.3	30
115	Self-assembled biotransesterified cyclodextrins as Artemisinin nanocarriers - I: formulation, lyoavailability and in vitro antimalarial activity assessment. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012 , 80, 508-17	5.7	29
114	Biodistribution of intravenously administered amphiphilic beta-cyclodextrin nanospheres. <i>International Journal of Pharmaceutics</i> , 2007 , 344, 135-42	6.5	29
113	Designing Organic/Inorganic Colloids by Heterophase Polymerization. <i>Macromolecular Symposia</i> , 2007 , 248, 213-226	0.8	28
112	Vesicles made of PS-PI cyclic diblock copolymers: in situ freeze-drying cryo-TEM and dynamic light scattering experiments. <i>Faraday Discussions</i> , 2005 , 128, 163-78	3.6	28
111	Function of isoamylase-type starch debranching enzymes ISA1 and ISA2 in the <i>Zea mays</i> leaf. <i>New Phytologist</i> , 2013 , 200, 1009-21	9.8	27
110	pH-Sensitive Interactions between Cellulose Nanocrystals and DOPC Liposomes. <i>Biomacromolecules</i> , 2017 , 18, 2918-2927	6.9	27
109	Distinct functional properties of isoamylase-type starch debranching enzymes in monocot and dicot leaves. <i>Plant Physiology</i> , 2013 , 163, 1363-75	6.6	27

108	Micro-mechanics of electrostatically stabilized suspensions of cellulose nanofibrils under steady state shear flow. <i>Soft Matter</i> , 2016 , 12, 1721-35	3.6	26
107	Impact of sonication on the rheological and colloidal properties of highly concentrated cellulose nanocrystal suspensions. <i>Cellulose</i> , 2019 , 26, 7619-7634	5.5	26
106	Self-assembly of maltoheptaose-block-polystyrene into micellar nanoparticles and encapsulation of gold nanoparticles. <i>Langmuir</i> , 2013 , 29, 15224-30	4	26
105	Raster microdiffraction with synchrotron radiation of hydrated biopolymers with nanometre step-resolution: case study of starch granules. <i>Journal of Synchrotron Radiation</i> , 2010 , 17, 743-50	2.4	26
104	Synthesis of oily core-hybrid shell nanocapsules through interfacial free radical copolymerization in miniemulsion: Droplet formation and nucleation. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 593-603	2.5	26
103	Self-assembly of an amphiphilic iron(III) chelator: mimicking iron acquisition in marine bacteria. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2580-2	16.4	26
102	Temperature-Controlled Star-Shaped Cellulose Nanocrystal Assemblies Resulting from Asymmetric Polymer Grafting. <i>ACS Macro Letters</i> , 2019 , 8, 345-351	6.6	25
101	Polymorphism of crystalline complexes of V-amylose with fatty acids. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 555-564	7.9	25
100	Morphological and structural aspects of the giant starch granules from <i>Phajus grandifolius</i> . <i>Journal of Structural Biology</i> , 2006 , 154, 100-10	3.4	25
99	Transmission Electron Microscopy for the Characterization of Cellulose Nanocrystals 2015 ,		24
98	In vitro synthesis of hyperbranched β -glucans using a biomimetic enzymatic toolbox. <i>Biomacromolecules</i> , 2013 , 14, 438-47	6.9	24
97	Micellar aggregation in blends of linear and cyclic poly(styrene-b-isoprene) diblock copolymers. <i>Langmuir</i> , 2005 , 21, 9085-90	4	24
96	Origin of the limited alpha-amylolysis of debranched maltodextrins crystallized in the A form: a TEM study on model substrates. <i>Biomacromolecules</i> , 2004 , 5, 119-25	6.9	24
95	Development of Nasal Lipid Nanocarriers Containing Curcumin for Brain Targeting. <i>Journal of Alzheimer's Disease</i> , 2017 , 59, 961-974	4.3	23
94	Single Crystals of V-Amylose Inclusion Complexes. <i>Macromolecular Symposia</i> , 2008 , 273, 1-8	0.8	23
93	One-step processing of plasticized starch/cellulose nanofibrils nanocomposites via twin-screw extrusion of starch and cellulose fibers. <i>Carbohydrate Polymers</i> , 2020 , 229, 115554	10.3	23
92	In-situ glyoxalization during biosynthesis of bacterial cellulose. <i>Carbohydrate Polymers</i> , 2015 , 126, 32-9	10.3	22
91	Periodate Oxidation Followed by NaBH Reduction Converts Microfibrillated Cellulose into Sterically Stabilized Neutral Cellulose Nanocrystal Suspensions. <i>Langmuir</i> , 2018 , 34, 11066-11075	4	22

90	Diversity of potential hydrogen bonds in cellulose I revealed by molecular dynamics simulation. <i>Cellulose</i> , 2014 , 21, 897-908	5.5	22
89	A-type crystals from dilute solutions of short amylose chains. <i>Biomacromolecules</i> , 2010 , 11, 3049-58	6.9	22
88	Aqueous self-assembly of polystyrene chains end-functionalized with beta-cyclodextrin. <i>Biomacromolecules</i> , 2009 , 10, 449-53	6.9	22
87	Helical Conformation in Crystalline Inclusion Complexes of V-Amylose: A Historical Perspective. <i>Macromolecular Symposia</i> , 2011 , 303, 1-9	0.8	22
86	Poly(ethylene glycol) hydroxystearate-based nanosized emulsions: effect of surfactant concentration on their formation and ability to solubilize quercetin. <i>Journal of Biomedical Nanotechnology</i> , 2012 , 8, 202-10	4	22
85	PII1: a protein involved in starch initiation that determines granule number and size in Arabidopsis chloroplast. <i>New Phytologist</i> , 2019 , 221, 356-370	9.8	21
84	β→Ⅱ transition of cellulose under ultrasonic radiation. <i>Cellulose</i> , 2013 , 20, 597-603	5.5	21
83	Dislocations stopped by the Ⅱ 9 (122) grain boundary in Si. An HREM study of thermal activation. <i>Journal De Physique</i> , 1989 , 50, 2525-2540		21
82	Influence of amylopectin structure and degree of phosphorylation on the molecular composition of potato starch lintners. <i>Biopolymers</i> , 2014 , 101, 257-71	2.2	20
81	Plasticity of a silicon bicrystal: a HREM study. <i>Microscopy Microanalysis Microstructures</i> , 1990 , 1, 395-404		20
80	Transmission electron microscopy of cellulose. Part 2: technical and practical aspects. <i>Cellulose</i> , 2019 , 26, 17-34	5.5	20
79	Characterization of hyperbranched glycopolymers produced in vitro using enzymes. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 1607-18	4.4	19
78	Miscellaneous nanoaggregates made of beta-CD esters synthesised by an enzymatic pathway. <i>International Journal of Pharmaceutics</i> , 2007 , 344, 26-32	6.5	19
77	Hybrid nanocellulose decorated with silver nanoparticles as reinforcing filler with antibacterial properties. <i>Materials Science and Engineering C</i> , 2019 , 105, 110044	8.3	18
76	From gold porphyrins to gold nanoparticles: catalytic nanomaterials for glucose oxidation. <i>Nanoscale</i> , 2014 , 6, 8556-60	7.7	18
75	Convergent evolution of polysaccharide debranching defines a common mechanism for starch accumulation in cyanobacteria and plants. <i>Plant Cell</i> , 2013 , 25, 3961-75	11.6	18
74	Morphology and Structure of Crystalline Polysaccharides: Some Recent Studies. <i>Macromolecular Symposia</i> , 2005 , 229, 66-71	0.8	18
73	Synthesis of composite latex particles filled with silica. <i>Macromolecular Symposia</i> , 2001 , 169, 89-96	0.8	18

72	Progress in developing amphiphilic cyclodextrin-based nanodevices for drug delivery. <i>Current Topics in Medicinal Chemistry</i> , 2014 , 14, 526-41	3	18
71	Impact of full range of amylose contents on the architecture of starch granules. <i>International Journal of Biological Macromolecules</i> , 2016 , 89, 305-18	7.9	17
70	Influence of the maturation time on the physico-chemical properties of nanocellulose and associated constituents isolated from pseudostems of banana plant c.v. Valery. <i>Industrial Crops and Products</i> , 2016 , 83, 551-560	5.9	17
69	Inline Coupling of Electrokinetic Preconcentration Method to Taylor Dispersion Analysis for Size-Based Characterization of Low-UV-Absorbing Nanoparticles. <i>Analytical Chemistry</i> , 2018 , 90, 2493-2500	7.8	16
68	Colloidal systems made of biotransesterified β and γ cyclodextrins grafted with C10 alkyl chains. <i>Materials Science and Engineering C</i> , 2009 , 29, 458-462	8.3	16
67	Chitin nanocrystals as Pickering stabilizer for O/W emulsions: Effect of the oil chemical structure on the emulsion properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 200, 111604	6	16
66	A-Amylose Single Crystals: Unit Cell Refinement from Synchrotron Radiation Microdiffraction Data. <i>Macromolecules</i> , 2006 , 39, 3704-3706	5.5	15
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