

Laurent David

List of Publications by Year in descending order

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186
papers

6,969
citations

61857

43
h-index

76769

74
g-index

188
all docs

188
docs citations

188
times ranked

8671
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-membrane hydrogels. <i>Nature</i> , 2008, 452, 76-79.	13.7	462
2	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.	1.6	389
3	Synthesis, structure, and morphology of polymer-silica hybrid nanocomposites based on hydroxyethyl methacrylate. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 3172-3187.	2.4	298
4	ABC Triblock Copolymers/Epoxy Diamine Blends. 1. Keys To Achieve Nanostructured Thermosets. <i>Macromolecules</i> , 2002, 35, 6245-6254.	2.2	246
5	Steric Stabilization of Lipid/Polymer Particle Assemblies by Poly(ethylene glycol)-Lipids. <i>Biomacromolecules</i> , 2007, 8, 3651-3660.	2.6	155
6	Physical chitosan microhydrogels as scaffolds for spinal cord injury restoration and axon regeneration. <i>Biomaterials</i> , 2017, 138, 91-107.	5.7	144
7	Polyelectrolyte Complexes from Polysaccharides: Formation and Stoichiometry Monitoring. <i>Langmuir</i> , 2007, 23, 10950-10958.	1.6	132
8	Structural Regime Identification in Ionotropic Alginate Gels: Influence of the Cation Nature and Alginate Structure. <i>Biomacromolecules</i> , 2012, 13, 215-220.	2.6	131
9	Crystallization of Isotactic Polypropylene under High Pressure (β^3 Phase). <i>Macromolecules</i> , 2000, 33, 4138-4145.	2.2	116
10	Nanostructure of Calcium Alginate Aerogels Obtained from Multistep Solvent Exchange Route. <i>Langmuir</i> , 2008, 24, 12547-12552.	1.6	110
11	Physical and mechanical properties of polyethylene for pipes in relation to molecular architecture. I. Microstructure and crystallisation kinetics. <i>Polymer</i> , 2001, 42, 8425-8434.	1.8	99
12	Structural Characterization of Chitin and Chitosan Obtained by Biological and Chemical Methods. <i>Biomacromolecules</i> , 2011, 12, 3285-3290.	2.6	99
13	Influence of SiO ₂ fillers on the irradiation ageing of silicone rubbers. <i>Polymer</i> , 2001, 42, 9287-9292.	1.8	90
14	Polymer/Laponite Composite Latexes: Particle Morphology, Film Microstructure, and Properties. <i>Macromolecular Rapid Communications</i> , 2007, 28, 1567-1573.	2.0	87
15	Kinetics Study of the Solid-State Acid Hydrolysis of Chitosan: Evolution of the Crystallinity and Macromolecular Structure. <i>Biomacromolecules</i> , 2010, 11, 1376-1386.	2.6	86
16	Biophysical Analysis of the Molecular Interactions between Polysaccharides and Mucin. <i>Biomacromolecules</i> , 2015, 16, 924-935.	2.6	85
17	Viscoelastic properties and morphological characterization of silica/polystyrene nanocomposites synthesized by nitroxide-mediated polymerization. <i>Polymer</i> , 2005, 46, 9965-9973.	1.8	84
18	A Novel Synthesis of Chitosan Nanoparticles in Reverse Emulsion. <i>Langmuir</i> , 2008, 24, 11370-11377.	1.6	83

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19	Electrodeposition of a Biopolymeric Hydrogel: Potential for One-Step Protein Electroaddressing. <i>Biomacromolecules</i> , 2012, 13, 1181-1189.	2.6	82
20	Processing and antibacterial properties of chitosan-coated alginate fibers. <i>Carbohydrate Polymers</i> , 2018, 190, 31-42.	5.1	79
21	Polysaccharide Gels Based on Chitosan and Modified Starch: Structural Characterization and Linear Viscoelastic Behavior. <i>Biomacromolecules</i> , 2010, 11, 1534-1543.	2.6	75
22	Cellulose Nanofiber-Reinforced Chitosan Hydrogel Composites for Intervertebral Disc Tissue Repair. <i>Biomimetics</i> , 2019, 4, 19.	1.5	72
23	Complete Human and Rat Ex Vivo Spermatogenesis from Fresh or Frozen Testicular Tissue. <i>Biology of Reproduction</i> , 2016, 95, 89-89.	1.2	71
24	Structure and morphology of nanocomposite films prepared from polyvinyl alcohol and silver nitrate: Influence of thermal treatment. <i>Journal of Polymer Science Part A</i> , 2007, 45, 2657-2672.	2.5	66
25	Chitosan-based nanocapsules: physical characterization, stability in biological media and capsaicin encapsulation. <i>Colloid and Polymer Science</i> , 2012, 290, 1423-1434.	1.0	66
26	Extensively deacetylated high molecular weight chitosan from the multistep ultrasound-assisted deacetylation of beta-chitin. <i>Ultrasonics Sonochemistry</i> , 2016, 32, 79-85.	3.8	64
27	Silica Encapsulation by Miniemulsion Polymerization: Distribution and Localization of the Silica Particles in Droplets and Latex Particles. <i>Langmuir</i> , 2012, 28, 6021-6031.	1.6	63
28	Morphology and mechanical properties of chitosan fibers obtained by gel-spinning: Influence of the dry-jet-stretching step and ageing. <i>Acta Biomaterialia</i> , 2006, 2, 387-402.	4.1	62
29	Molecular mobility in para-substituted polyaryls. 1. Sub-Tg relaxation phenomena in poly(aryl-ether-ether-ketone). <i>Macromolecules</i> , 1992, 25, 4302-4308.	2.2	60
30	Continuum of Structural Organization from Chitosan Solutions to Derived Physical Forms. <i>Biomacromolecules</i> , 2010, 11, 6-12.	2.6	59
31	Covalently-crosslinked mucin biopolymer hydrogels for sustained drug delivery. <i>Acta Biomaterialia</i> , 2015, 20, 51-59.	4.1	59
32	Design and characterization of a chitosan-enriched fibrin hydrogel for human dental pulp regeneration. <i>Dental Materials</i> , 2019, 35, 523-533.	1.6	59
33	Physical and mechanical properties of polyethylene for pipes in relation to molecular architecture. II. Short-term creep of isotropic and drawn materials. <i>Journal of Applied Polymer Science</i> , 2002, 84, 2308-2317.	1.3	58
34	Mechanisms Involved During the Ultrasonically Induced Depolymerization of Chitosan: Characterization and Control. <i>Biomacromolecules</i> , 2009, 10, 1203-1211.	2.6	58
35	Polysaccharide-Based Adhesive for Biomedical Applications: Correlation between Rheological Behavior and Adhesion. <i>Biomacromolecules</i> , 2011, 12, 1556-1566.	2.6	58
36	Wear Protection without Surface Modification Using a Synergistic Mixture of Molecular Brushes and Linear Polymers. <i>ACS Nano</i> , 2017, 11, 1762-1769.	7.3	58

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37	Relaxation of non-crystalline solids under mechanical stress. <i>Journal of Non-Crystalline Solids</i> , 2000, 274, 181-187.	1.5	52
38	Physicochemical modulation of chitosan-based hydrogels induces different biological responses: Interest for tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3666-3676.	2.1	47
39	Morphology and viscoelasticity of PP/TiO ₂ nanocomposites prepared by <i>in situ</i> sol-gel method. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1213-1222.	2.4	46
40	Chitosan Hydrogels for the Regeneration of Infarcted Myocardium: Preparation, Physicochemical Characterization, and Biological Evaluation. <i>Biomacromolecules</i> , 2016, 17, 1662-1672.	2.6	46
41	Polyelectrolyte Microstructure in Chitosan Aqueous and Alcohol Solutions. <i>Biomacromolecules</i> , 2007, 8, 1209-1217.	2.6	45
42	Polyelectrolyte complexes via desalting mixtures of hyaluronic acid and chitosan: Physicochemical study and structural analysis. <i>Carbohydrate Polymers</i> , 2016, 154, 86-95.	5.1	45
43	A Novel Crosslinked Hyaluronic Acid Nanogel for Drug Delivery. <i>Macromolecular Bioscience</i> , 2014, 14, 1556-1568.	2.1	44
44	Highly stretchable hydrogels from complex coacervation of natural polyelectrolytes. <i>Soft Matter</i> , 2017, 13, 6594-6605.	1.2	44
45	Hybrid films of polyimide containing <i>in situ</i> generated silver or palladium nanoparticles: Effect of the particle precursor and of the processing conditions on the morphology and the gas permeability. <i>Polymer</i> , 2006, 47, 5303-5313.	1.8	42
46	Metal nanocomposite films prepared <i>in situ</i> from PVA and silver nitrate. Study of the nanostructuration process and morphology as a function of the <i>in situ</i> routes. <i>Journal of Polymer Science Part A</i> , 2008, 46, 2062-2071.	2.5	42
47	Synthesis and Structural Characterization of Chitosan Nanogels. <i>Langmuir</i> , 2009, 25, 8935-8943.	1.6	42
48	Highly crystalline chitosan produced by multi-steps acid hydrolysis in the solid-state. <i>Carbohydrate Polymers</i> , 2011, 83, 1730-1739.	5.1	42
49	Influence of the molecular architecture of low-density polyethylene on the texture and mechanical properties of blown films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 327-340.	2.4	41
50	Characterization of the cathodic electrodeposition of semicrystalline chitosan hydrogel. <i>Materials Letters</i> , 2012, 87, 97-100.	1.3	41
51	Intermolecular Interactions between Bottlebrush Polymers Boost the Protection of Surfaces against Frictional Wear. <i>Chemistry of Materials</i> , 2018, 30, 4140-4149.	3.2	41
52	3-D printing of chitosan-calcium phosphate inks: rheology, interactions and characterization. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 6.	1.7	40
53	New experimental features and revisiting the $\hat{\tau}$ and $\hat{\tau}^2$ mechanical relaxation in glasses and glass-forming liquids. <i>Journal of Molecular Structure</i> , 1999, 479, 183-194.	1.8	39
54	Influence of electron irradiation on the mobility and on the mechanical properties of DGEBA/TETA epoxy resins. <i>Polymer</i> , 2001, 42, 4657-4665.	1.8	39

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55	Enzymatic Production and Enzymatic-Mass Spectrometric Fingerprinting Analysis of Chitosan Polymers with Different Nonrandom Patterns of Acetylation. <i>Journal of the American Chemical Society</i> , 2019, 141, 3137-3145.	6.6	39
56	In situ generation of nanoparticulate lanthanum(III) oxide-polyimide films: characterization of nanoparticle formation and resulting polymer properties. <i>Polymer</i> , 2005, 46, 6657-6665.	1.8	38
57	Dynamic Structuration of Physical Chitosan Hydrogels. <i>Langmuir</i> , 2017, 33, 12697-12707.	1.6	37
58	Supercritically Dried Alginate Aerogels Retain the Fibrillar Structure of the Hydrogels. <i>Macromolecular Symposia</i> , 2008, 273, 80-84.	0.4	36
59	Chitosan-based hydrogels for developing a small-diameter vascular graft: <i>in vitro</i> and <i>in vivo</i> evaluation. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 065003.	1.7	36
60	Shear induced crystallization of poly(m-xylylene adipamide) with and without nucleating additives. <i>Polymer</i> , 2007, 48, 3273-3285.	1.8	35
61	Development of Bioinspired Functional Chitosan/Cellulose Nanofiber 3D Hydrogel Constructs by 3D Printing for Application in the Engineering of Mechanically Demanding Tissues. <i>Polymers</i> , 2021, 13, 1663.	2.0	35
62	Towards Biocompatible Vaccine Delivery Systems: Interactions of Colloidal PECs Based on Polysaccharides with HIV-1 p24 Antigen. <i>Biomacromolecules</i> , 2008, 9, 583-591.	2.6	34
63	Nanoparticles and Colloidal Hydrogels of Chitosan-Caseinate Polyelectrolyte Complexes for Drug-Controlled Release Applications. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5602.	1.8	34
64	Effect of physical aging on the low-frequency vibrational density of states of a glassy polymer. <i>Europhysics Letters</i> , 2003, 63, 778-784.	0.7	33
65	Glycol Chitosan-based Nanogel as a Potential Targetable Carrier for siRNA. <i>Macromolecular Bioscience</i> , 2013, 13, 1369-1378.	2.1	33
66	Tuning the Hydrophilic/Hydrophobic Balance to Control the Structure of Chitosan Films and Their Protein Release Behavior. <i>AAPS PharmSciTech</i> , 2017, 18, 1070-1083.	1.5	33
67	Structure and mechanical behavior of nylon-6 fibers filled with organic and mineral nanoparticles. I. Microstructure of spun and drawn fibers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 3876-3892.	2.4	32
68	Synthesis of Polymer Latex Particles Decorated with Organically-Modified Laponite Clay Platelets via Emulsion Polymerization. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 421-431.	0.9	32
69	The role of anelasticity in high stress mechanical response and physical properties of glassy polymers. <i>Polymer Engineering and Science</i> , 1997, 37, 1633-1640.	1.5	31
70	Reversible controlled assembly of chitosan and dextran sulfate: A new method for nanoparticle elaboration. <i>Carbohydrate Polymers</i> , 2014, 102, 717-726.	5.1	31
71	Enzymatic hydrolysis of chitin pretreated by rapid depressurization from supercritical 1,1,1,2-tetrafluoroethane toward highly acetylated oligosaccharides. <i>Bioresource Technology</i> , 2016, 209, 180-186.	4.8	31
72	Molecular Mobility in Para-Substituted Polyaryls. 3. Low-Temperature Dynamics. <i>Macromolecules</i> , 1996, 29, 8343-8348.	2.2	30

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73	High temperature behaviour of the crystalline phases in unfilled and clay-filled nylon 6 fibers. <i>Polymer</i> , 2006, 47, 5071-5079.	1.8	30
74	Structure of Natural Polyelectrolyte Solutions: Role of the Hydrophilic/Hydrophobic Interaction Balance. <i>Langmuir</i> , 2009, 25, 6460-6468.	1.6	30
75	Highly selective multi-block poly(ether-urea-imide)s for CO ₂ /N ₂ separation: Structure-morphology-properties relationships. <i>Polymer</i> , 2017, 131, 56-67.	1.8	30
76	Effect of physical aging on nano- and macroscopic properties of poly(methyl methacrylate) glass. <i>Polymer</i> , 2005, 46, 12523-12531.	1.8	28
77	Cellulose acetate graft copolymers with nano-structured architectures: Synthesis and characterization. <i>European Polymer Journal</i> , 2010, 46, 944-957.	2.6	28
78	Controlling the complexation of polysaccharides into multi-functional colloidal assemblies for nanomedicine. <i>Journal of Colloid and Interface Science</i> , 2014, 430, 147-156.	5.0	27
79	Electronic Density Fluctuations in Disordered Systems. 1. Effect of Thermal Treatments on the Dynamics and Local Microstructure of Poly(methyl methacrylate). <i>Macromolecules</i> , 1996, 29, 8387-8390.	2.2	26
80	Grafting of cellulose acetate with ionic liquids for biofuel purification by a membrane process: Influence of the cation. <i>Carbohydrate Polymers</i> , 2016, 147, 313-322.	5.1	26
81	Nanocomposite membranes of polyetherimide nanostructured with palladium particles: Processing route, morphology and functional properties. <i>Journal of Membrane Science</i> , 2010, 361, 167-175.	4.1	25
82	Micron Range Morphology of Physical Chitosan Hydrogels. <i>Langmuir</i> , 2010, 26, 17495-17504.	1.6	25
83	Spinning of hydroalcoholic chitosan solutions. <i>Carbohydrate Polymers</i> , 2013, 98, 50-63.	5.1	25
84	Unraveling the Correlations between Conformation, Lubrication, and Chemical Stability of Bottlebrush Polymers at Interfaces. <i>Biomacromolecules</i> , 2017, 18, 4002-4010.	2.6	25
85	Reinforcing Mucus Barrier Properties with Low Molar Mass Chitosans. <i>Biomacromolecules</i> , 2018, 19, 872-882.	2.6	25
86	Mechanical Spectroscopy and other Relaxation Spectroscopies. <i>Solid State Phenomena</i> , 2003, 89, 31-66.	0.3	24
87	Fine microstructure of processed chitosan nanofibril networks preserving directional packing and high molecular weight. <i>Carbohydrate Polymers</i> , 2015, 131, 1-8.	5.1	24
88	Self-crosslinked fibrous collagen/chitosan blends: Processing, properties evaluation and monitoring of degradation by bi-fluorescence imaging. <i>International Journal of Biological Macromolecules</i> , 2019, 131, 353-367.	3.6	24
89	Irradiation effects on the relaxation behaviour of EPDM elastomers. <i>Polymer International</i> , 2004, 53, 495-505.	1.6	23
90	In Vitro Mechanical Property Evaluation of Chitosan-Based Hydrogels Intended for Vascular Graft Development. <i>Journal of Cardiovascular Translational Research</i> , 2017, 10, 480-488.	1.1	23

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91	Guar gum as biosourced building block to generate highly conductive and elastic ionogels with poly(ionic liquid) and ionic liquid. <i>Carbohydrate Polymers</i> , 2017, 157, 586-595.	5.1	23
92	Functional Bionanocomposite Fibers of Chitosan Filled with Cellulose Nanofibers Obtained by Gel Spinning. <i>Polymers</i> , 2021, 13, 1563.	2.0	23
93	Dielectric and mechanical relaxation behavior in poly(butyl methacrylate) isomers. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 595-603.	1.5	21
94	Uniaxially stretched poly(ethylene naphthalene 2,6-dicarboxylate) films studied by broadband dielectric spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 2742-2752.	1.5	21
95	Activity of chitin deacetylase from <i>Colletotrichum gloeosporioides</i> on chitinous substrates. <i>Carbohydrate Polymers</i> , 2013, 96, 227-232.	5.1	21
96	Macro-hydrogels versus nanoparticles by the controlled assembly of polysaccharides. <i>Carbohydrate Polymers</i> , 2015, 134, 541-546.	5.1	21
97	Colorectal tissue engineering: A comparative study between porcine small intestinal submucosa (SIS) and chitosan hydrogel patches. <i>Surgery</i> , 2015, 158, 1714-1723.	1.0	21
98	Grafting cellulose acetate with ionic liquids for biofuel purification membranes : Influence of the anion. <i>Carbohydrate Polymers</i> , 2018, 196, 176-186.	5.1	21
99	Fabrication and characterization of hardystonite-chitosan biocomposite scaffolds. <i>Ceramics International</i> , 2019, 45, 8804-8814.	2.3	21
100	Morphologies of Cross-Linked Segmented Polyurethanes. Evolution during Maturation and Consequences on Elastic Properties and Thermal Compressive Fatigue. <i>Macromolecules</i> , 2010, 43, 1888-1900.	2.2	20
101	The biomechanical properties of canine skin measured in situ by uniaxial extension. <i>Journal of Biomechanics</i> , 2014, 47, 1067-1073.	0.9	19
102	Molecular mobility in para-substituted polyaryls. 2. Glass transition phenomena in amorphous poly(aryl ether ether ketone). <i>Macromolecules</i> , 1993, 26, 4489-4498.	2.2	18
103	Nonlinear mechanical response of amorphous polymers below and through glass transition temperature. <i>Journal of Applied Polymer Science</i> , 1997, 65, 2517-2528.	1.3	18
104	Polysaccharide-based vaccine delivery systems: Macromolecular assembly, interactions with antigen presenting cells, and <i>in vivo</i> immunomonitoring. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 93A, 1322-1334.	2.1	18
105	Prilling and characterization of hydrogels and derived porous spheres from chitosan solutions with various organic acids. <i>International Journal of Biological Macromolecules</i> , 2019, 129, 68-77.	3.6	18
106	Mechanical Spectroscopy of Side-Chain Liquid Crystalline Polymers in the Glass Transition Range. <i>Macromolecules</i> , 1995, 28, 5758-5764.	2.2	17
107	Poly(imide-amide)-poly(ethylene adipate) hybrid networks. I. Nanostructure and segmental dynamics. <i>Polymer</i> , 2002, 43, 6943-6953.	1.8	17
108	Dielectric properties of polyamide 6-montmorillonite nanocomposites. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 589-596.	1.5	17

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109	New dextrin nanomagnetogels as contrast agents for magnetic resonance imaging. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5853.	2.9	17
110	Bioresorption mechanisms of chitosan physical hydrogels: A scanning electron microscopy study. <i>Materials Science and Engineering C</i> , 2014, 42, 374-384.	3.8	17
111	Efficacy of epicardial implantation of acellular chitosan hydrogels in ischemic and nonischemic heart failure: impact of the acetylation degree of chitosan. <i>Acta Biomaterialia</i> , 2021, 119, 125-139.	4.1	17
112	Structures and rheological properties of reactive solutions of block copolymers. Part I. Diblock copolymers in a liquid epoxy monomer. <i>Polymer</i> , 2005, 46, 6605-6613.	1.8	16
113	Physical aging of atactic polystyrene as seen by dielectric relaxational and low-frequency vibrational Raman spectroscopies. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 2593-2598.	1.5	16
114	Labeling and Qualification of Endothelial Progenitor Cells for Tracking in Tissue Engineering: An in Vitro Study. <i>International Journal of Artificial Organs</i> , 2015, 38, 224-232.	0.7	16
115	Nanocomposite sponges for enhancing intestinal residence time following oral administration. <i>Journal of Controlled Release</i> , 2021, 333, 579-592.	4.8	16
116	Molecular mobility and structural state relationship in amorphous polymers. <i>Journal of Non-Crystalline Solids</i> , 1998, 235-237, 628-634.	1.5	15
117	Multiscale morphology and thermo-mechanical history of poly(vinyl chloride)(PVC). <i>Polymer International</i> , 2004, 53, 515-522.	1.6	15
118	Structural/compositional nanoheterogeneity and glass-transition plurality in amorphous polycyanurate-poly(tetramethylene glycol) hybrid networks. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 3261-3272.	2.4	15
119	Discrimination of patterns of <i>N</i> -acetylation in chitooligosaccharides by gas phase IR spectroscopy integrated to mass spectrometry. <i>Pure and Applied Chemistry</i> , 2017, 89, 1349-1357.	0.9	15
120	Kinetics of chitosan coagulation from aqueous solutions. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46062.	1.3	14
121	Nanoscale mechanical properties of chitosan hydrogels as revealed by AFM. <i>Progress in Biomaterials</i> , 2020, 9, 187-201.	1.8	14
122	Physical aging and nanostructure of poly(methyl methacrylate): Effect of methanol. <i>Journal of Chemical Physics</i> , 2001, 114, 4685.	1.2	13
123	Influence of ZnO fillers and process conditions on the morphology and the gas barrier properties of filled polyamide 6 films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 1734-1746.	2.4	13
124	Interrupted Wet-Spinning Process for Chitosan Hollow Fiber Elaboration. <i>Macromolecular Symposia</i> , 2008, 266, 1-5.	0.4	13
125	Self-Assemblies on Chitosan Nanohydrogels. <i>Macromolecular Bioscience</i> , 2010, 10, 424-432.	2.1	13
126	Grafting of multi-block copolymers: A new strategy for improving membrane separation performance for ethyl tert-butyl (ETBE) bio-fuel purification by pervaporation. <i>Journal of Membrane Science</i> , 2014, 469, 31-42.	4.1	13

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127	Bioinspired microstructures of chitosan hydrogel provide enhanced wear protection. <i>Soft Matter</i> , 2018, 14, 2068-2076.	1.2	13
128	Intermolecular and intramolecular contributions to the relaxation process in sorbitol and maltitol. <i>Molecular Physics</i> , 2001, 99, 1845-1850.	0.8	12
129	Small-angle X-ray scattering investigation of the deformation processes in the amorphous phase of high density polyethylene. <i>Polymer International</i> , 2004, 53, 582-585.	1.6	12
130	Physical aging and molecular mobility of amorphous polymers. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 3871-3878.	1.5	12
131	Composition effects of thermoplastic segmented polyurethanes on their nanostructuring kinetics with or without preshear. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 801-811.	2.4	12
132	<i>In situ</i> synthesis of Fe ₃ O ₄ nanoparticles coated by chito-oligosaccharides: physico-chemical characterizations and cytotoxicity evaluation for biomedical applications. <i>Nanotechnology</i> , 2020, 31, 175602.	1.3	12
133	Controlled Polyelectrolyte Association of Chitosan and Carboxylated Nano-Fibrillated Cellulose by Desalting. <i>Polymers</i> , 2021, 13, 2023.	2.0	12
134	Recent Developments in Small-Angle X-Ray Scattering for the Study of Metals and Polymers. <i>Advanced Engineering Materials</i> , 2001, 3, 579.	1.6	11
135	Multifunctional covalent and ionic coupling agents of maleic anhydride modified polyethylene. <i>Journal of Applied Polymer Science</i> , 2007, 105, 2605-2610.	1.3	11
136	Magnetite nanoparticles with controlled sizes via thermal degradation of optimized PVA/Fe(III) complexes. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 460, 381-390.	1.0	11
137	Long-term physical ageing of amorphous polymers. <i>Philosophical Magazine</i> , 2007, 87, 417-424.	0.7	10
138	Nanostructured organic-inorganic hybrid films prepared by the sol-gel method from self-assemblies of PS- <i>b</i> -PAA- <i>b</i> -PS triblock copolymers. <i>Journal of Polymer Science Part A</i> , 2011, 49, 4193-4203.	2.5	10
139	Effect of the ultrastructure of chitosan nanoparticles in colloidal stability, quorum quenching and antibacterial activities. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 592-605.	5.0	10
140	Lubrication and Wear Protection of Micro-Structured Hydrogels Using Bioinspired Fluids. <i>Biomacromolecules</i> , 2019, 20, 326-335.	2.6	10
141	Nanostructure and low-frequency vibrations in plasticized poly(methyl methacrylate). <i>Europhysics Letters</i> , 1998, 44, 747-752.	0.7	9
142	Temperature dependence of the density fluctuations of silica by small-angle X-ray scattering. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2002, 82, 431-438.	0.6	9
143	Control of the Morphology of Organic-Inorganic Hybrid Materials Elaborated by Reactive Processing Without Solvent. <i>Journal of Sol-Gel Science and Technology</i> , 2004, 31, 47-50.	1.1	9
144	Structure and mechanical behavior of nylon 6 fibers filled with organic and mineral nanoparticles. <i>In situ</i> study of deformation mechanisms. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 2633-2648.	2.4	9

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145	Cell and tissue responses at the interface with a chitosan hydrogel intended for vascular applications: <i>in vitro</i> and <i>in vivo</i> exploration. <i>Biomedical Materials</i> (Bristol), 2019, 14, 025009.	1.7	9
146	Spinning of hydroalcoholic chitosan solutions: Mechanical behavior and multiscale microstructure of resulting fibers. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47130.	1.3	9
147	Study of the α -Mechanical Relaxation in Molecular Glass-Forming Liquids. <i>Journal De Physique II</i> , 1997, 7, 1635-1650.	0.9	9
148	Dental pulp inflammatory/immune response to a chitosan-enriched fibrin hydrogel in the pulpotomised rat incisor. , 2020, 40, 74-87.		9
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