ConcepciÃ³n Valencia

List of Publications by Year
in descending order

108 papers	3,479 citations	126708 33 h-index	189595 50 g-index
114 all docs	114 docs citations	114 times ranked	2026 citing authors

#	Article	IF	Citations
1	Lignin-enriched residues from bioethanol production: Chemical characterization, isocyanate functionalization and oil structuring properties. International Journal of Biological Macromolecules, 2022, 195, 412-423.	3.6	13
2	Lignocellulosic Materials for the Production of Biofuels, Biochemicals and Biomaterials and Applications of Lignocellulose-Based Polyurethanes: A Review. Polymers, 2022, 14, 881.	2.0	26
3	Populus alba L., an Autochthonous Species of Spain: A Source for Cellulose Nanofibers by Chemical Pretreatment. Polymers, 2022, 14, 68.	2.0	4
4	Structuring natural deep eutectic solvents with epoxidised lignin-enriched residues: a green alternative to petroleum-based thickened formulations. Journal of Molecular Liquids, 2022, 360, 119433.	2.3	1
5	Different Kraft lignin sources for electrospun nanostructures production: Influence of chemical structure and composition. International Journal of Biological Macromolecules, 2022, 214, 554-567.	3.6	17
6	Rheological and tribological approaches as a tool for the development of sustainable lubricating greases based on nano-montmorillonite and castor oil. Friction, 2021, 9, 415-428.	3.4	36
7	Lignin effect in castor oil-based elastomers: Reaching new limits in rheological and cushioning behaviors. Composites Science and Technology, 2021, 203, 108602.	3.8	19
8	Assessment of Sustainability of Bio Treated Lignocellulose-Based Oleogels. Polymers, 2021, 13, 267.	2.0	10
9	Eco-Friendly Oleogels from Functionalized Kraft Lignin with Laccase SilA from <i>Streptomyces ipomoeae</i>: An Opportunity to Replace Commercial Lubricants. ACS Sustainable Chemistry and Engineering, 2021, 9, 4611-4616.	3.2	16
10	Electrospun lignin-PVP nanofibers and their ability for structuring oil. International Journal of Biological Macromolecules, 2021, 180, 212-221.	3.6	29
11	Thickening Castor Oil with a Lignin-Enriched Fraction from Sugarcane Bagasse Waste via Epoxidation: A Rheological and Hydrodynamic Approach. ACS Sustainable Chemistry and Engineering, 2021, 9, 10503-10512.	3.2	6
12	Electrohydrodynamic Processing of PVP-Doped Kraft Lignin Micro- and Nano-Structures and Application of Electrospun Nanofiber Templates to Produce Oleogels. Polymers, 2021, 13, 2206.	2.0	15
13	Toward UV-Triggered Curing of Solvent-Free Polyurethane Adhesives Based on Castor Oil. ACS Sustainable Chemistry and Engineering, 2021, 9, 11032-11040.	3.2	22
14	Rheology and adhesion performance of adhesives formulated with lignins from agricultural waste straws subjected to solid-state fermentation. Industrial Crops and Products, 2021, 171, 113876.	2.5	17
15	Implementation of a novel continuous solid/liquid mixing accessory for 3D printing of dysphagia-oriented thickened fluids. Food Hydrocolloids, 2021, 120, 106900.	5.6	14
16	Evaluation of lignin-enriched side-streams from different biomass conversion processes as thickeners in bio-lubricant formulations. International Journal of Biological Macromolecules, 2020, 162, 1398-1413.	3.6	30
17	Green and facile procedure for the preparation of liquid and gel-like polyurethanes based on castor oil and lignin: Effect of processing conditions on the rheological properties. Journal of Cleaner Production, 2020, 277, 123367.	4.6	12
18	Cellulose Pulp- and Castor Oil-Based Polyurethanes for Lubricating Applications: Influence of Streptomyces Action on Barley and Wheat Straws. Polymers, 2020, 12, 2822.	2.0	12

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19	Tribological study of epoxide-functionalized alkali lignin-based gel-like biogreases. Tribology International, 2020, 146, 106231.	3.0	19
20	Influence of solid-state fermentation with Streptomyces on the ability of wheat and barley straws to thicken castor oil for lubricating purposes. Industrial Crops and Products, 2019, 140, 111625.	2.5	17
21	Thermo-rheological and tribological properties of novel bio-lubricating greases thickened with epoxidized lignocellulosic materials. Journal of Industrial and Engineering Chemistry, 2019, 80, 626-632.	2.9	27
22	On the Steady-State Flow and Yielding Behaviour of Lubricating Greases. Fluids, 2019, 4, 6.	0.8	17
23	Effect of an alkali treatment on the development of cellulose pulp-based gel-like dispersions in vegetable oil for use as lubricants. Tribology International, 2018, 123, 329-336.	3.0	21
24	Valorization of Soda Lignin from Wheat Straw Solid-State Fermentation: Production of Oleogels. ACS Sustainable Chemistry and Engineering, 2018, 6, 5198-5205.	3.2	32
25	Molecular insights into the mechanisms of humidity-induced changes on the bulk performance of model castor oil derived polyurethane adhesives. European Polymer Journal, 2018, 101, 291-303.	2.6	34
26	Unexpected Selectivity in the Functionalization of Neat Castor Oil under Benign Catalyst-Free Conditions. ACS Sustainable Chemistry and Engineering, 2018, 6, 7212-7215.	3.2	4
27	Assessing cellulose nanofiber production from olive tree pruning residue. Carbohydrate Polymers, 2018, 179, 252-261.	5.1	80
28	Valorization of Kraft Lignin as Thickener in Castor Oil for Lubricant Applications. Journal of Renewable Materials, 2018, 6, 347-361.	1.1	21
29	Reversible pH-Sensitive Chitosan-Based Hydrogels. Influence of Dispersion Composition on Rheological Properties and Sustained Drug Delivery. Polymers, 2018, 10, 392.	2.0	26
30	Modification of Alkali Lignin with Poly(Ethylene Glycol) Diglycidyl Ether to Be Used as a Thickener in Bio-Lubricant Formulations. Polymers, 2018, 10, 670.	2.0	27
31	Rheology of epoxidized cellulose pulp gel-like dispersions in castor oil: Influence of epoxidation degree and the epoxide chemical structure. Carbohydrate Polymers, 2018, 199, 563-571.	5.1	19
32	Structure-property relationships in solvent free adhesives derived from castor oil. Industrial Crops and Products, 2018, 121, 90-98.	2.5	26
33	Rheology of lignin-based chemical oleogels prepared using diisocyanate crosslinkers: Effect of the diisocyanate and curing kinetics. European Polymer Journal, 2017, 89, 311-323.	2.6	36
34	Influence of epoxidation conditions on the rheological properties of gel-like dispersions of epoxidized kraft lignin in castor oil. Holzforschung, 2017, 71, 777-784.	0.9	18
35	Impact of natural sources-derived antioxidants on the oxidative stability and rheological properties of castor oil based-lubricating greases. Industrial Crops and Products, 2016, 87, 297-303.	2.5	14
36	AFM and SEM Assessment of Lubricating Grease Microstructures: Influence of Sample Preparation Protocol, Frictional Working Conditions and Composition. Tribology Letters, 2016, 63, 1.	1.2	38

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37	Tribological behaviour of novel chemically modified biopolymer-thickened lubricating greases investigated in a steelâ€“steel rotating ball-on-three plates tribology cell. Tribology International, 2016, 94, 652-660.	3.0	44
38	Linear and nonlinear viscoelasticity of oleogels based on vegetable oil and ethylene vinyl acetate copolymer/isotactic polypropylene blends. Journal of Applied Polymer Science, 2015, 132, .	1.3	7
39	Influence of Base Oil Polarity on the Transient Shear Flow of Biodegradable Lubricating Greases. Lubricants, 2015, 3, 611-627.	1.2	4
40	Thickening properties of several NCO-functionalized cellulose derivatives in castor oil. Chemical Engineering Science, 2015, 134, 260-268.	1.9	44
41	Tribological, rheological, and microstructural characterization of oleogels based on EVA copolymer and vegetables oils for lubricant applications. Tribology International, 2015, 90, 426-434.	3.0	44
42	Gel-Like Dispersions of HMDI-Cross-Linked Lignocellulosic Materials in Castor Oil: Toward Completely Renewable Lubricating Grease Formulations. ACS Sustainable Chemistry and Engineering, 2015, 3, 2130-2141.	3.2	51
43	Rheological and TGA study of acylated chitosan gel-like dispersions in castor oil: Influence of acyl substituent and acylation protocol. Chemical Engineering Research and Design, 2015, 100, 170-178.	2.7	24
44	Influence of Functionalization Degree on the Rheological Properties of Isocyanate-Functionalized Chitin- and Chitosan-Based Chemical Oleogels for Lubricant Applications. Polymers, 2014, 6, 1929-1947.	2.0	24
45	Composition-property relationship of gel-like dispersions based on organo-bentonite, recycled polypropylene and mineral oil for lubricant purposes. Applied Clay Science, 2014, 87, 265-271.	2.6	15
46	Formulation of lubricating greases from renewable basestocks and thickener agents: A rheological approach. Industrial Crops and Products, 2014, 54, 115-121.	2.5	26
47	Rheological and Tribological Characterization of a New Acylated Chitosanâ€“Based Biodegradable Lubricating Grease: A Comparative Study with Traditional Lithium and Calcium Greases. Tribology Transactions, 2014, 57, 445-454.	1.1	36
48	Tandem ATRP/Dielsâ€“Alder synthesis of polyHEMA-based hydrogels. Polymer Chemistry, 2014, 5, 5391-5402.	1.9	15
49	Design of lubricating grease formulations using recycled polypropylene from postconsumer films as thickener agent. Journal of Applied Polymer Science, 2013, 127, 1369-1376.	1.3	11
50	Viscosity modification of highâ€oleic sunflower and castor oils with acid oilsâ€derived estolides for lubricant applications. European Journal of Lipid Science and Technology, 2013, 115, 1173-1182.	1.0	18
51	Rheology and thermal degradation of isocyanate-functionalized methyl cellulose-based oleogels. Carbohydrate Polymers, 2013, 98, 152-160.	5.1	46
52	Viscous, thermal and tribological characterization of oleic and ricinoleic acids-derived estolides and their blends with vegetable oils. Journal of Industrial and Engineering Chemistry, 2013, 19, 1289-1298.	2.9	50
53	Effect of amorphous/recycled polypropylene ratio on thermo-mechanical properties of blends for lubricant applications. Polymer Testing, 2013, 32, 516-524.	2.3	20
54	Formulation and processing of virgin and recycled polyolefin/oil blends for the development of lubricating greases. Journal of Industrial and Engineering Chemistry, 2013, 19, 580-588.	2.9	19

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55	Chemical modification of methyl cellulose with HMDI to modulate the thickening properties in castor oil. Cellulose, 2013, 20, 495-507.	2.4	31
56	The effect of recycled polymer addition on the thermorheological behavior of modified lubricating greases. Polymer Engineering and Science, 2013, 53, 818-826.	1.5	6
57	Chemical, thermal and viscous characterization of high-oleic sunflower and olive pomace acid oils and derived estolides. Grasas Y Aceites, 2013, 64, 497-508.	0.3	21
58	Isocyanate-Functionalized Chitin and Chitosan as Gelling Agents of Castor Oil. Molecules, 2013, 18, 6532-6549.	1.7	34
59	Droplet-size distribution and stability of commercial injectable lipid emulsions containing fish oil. American Journal of Health-System Pharmacy, 2012, 69, 1332-1335.	0.5	5
60	Evaluation of Thermal and Rheological Properties of Lubricating Greases Modified with Recycled LDPE. Tribology Transactions, 2012, 55, 518-528.	1.1	20
61	Influence of Eucalyptus globulus Kraft Pulping Severity on the Rheological Properties of Gel-like Cellulose Pulp Dispersions in Castor Oil. Industrial & Engineering Chemistry Research, 2012, 51, 9777-9782.	1.8	20
62	Influence of some processing variables on the rheological properties of lithium lubricating greases modified with recycled polymers. International Journal of Materials and Product Technology, 2012, 43, 184.	0.1	4
63	Synthesis and characterization of isocyanateâ€functionalized PVAâ€based polymers with applications as new additives in lubricant formulations. Journal of Applied Polymer Science, 2012, 125, 3259-3267.	1.3	10
64	Rheology of new green lubricating grease formulations containing cellulose pulp and its methylated derivative as thickener agents. Industrial Crops and Products, 2012, 37, 500-507.	2.5	69
65	Natural and Synthetic Antioxidant Additives for Improving the Performance of New Biolubricant Formulations. Journal of Agricultural and Food Chemistry, 2011, 59, 12917-12924.	2.4	62
66	Preparation and Characterization of Gel-like Dispersions Based on Cellulosic Pulps and Castor Oil for Lubricant Applications. Industrial & Engineering Chemistry Research, 2011, 50, 5618-5627.	1.8	27
67	Rheology of oleogels based on sorbitan and glyceryl monostearates and vegetable oils for lubricating applications. Grasas Y Aceites, 2011, 62, 328-336.	0.3	29
68	Rheological and mechanical properties of oleogels based on castor oil and cellulosic derivatives potentially applicable as bio-lubricating greases: Influence of cellulosic derivatives concentration ratio. Journal of Industrial and Engineering Chemistry, 2011, 17, 705-711.	2.9	30
69	Formulation of new biodegradable lubricating greases using ethylated cellulose pulp as thickener agent. Journal of Industrial and Engineering Chemistry, 2011, 17, 818-823.	2.9	40
70	Evaluation of different polyolefins as rheology modifier additives in lubricating grease formulations. Materials Chemistry and Physics, 2011, 128, 530-538.	2.0	32
71	Linear and non-linear viscoelasticity of puddings for nutritional management of dysphagia. Food Hydrocolloids, 2011, 25, 586-593.	5.6	49
72	Atomic Force Microscopy and Thermo-Rheological Characterisation of Lubricating Greases. Tribology Letters, 2011, 41, 463-470.	1.2	78

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73	Thermal and mechanical characterization of cellulosic derivatives-based oleogels potentially applicable as bio-lubricating greases: Influence of ethyl cellulose molecular weight. Carbohydrate Polymers, 2011, 83, 151-158.	5.1	76
74	Use of chitin, chitosan and acylated derivatives as thickener agents of vegetable oils for bio-lubricant applications. Carbohydrate Polymers, 2011, 85, 705-714.	5.1	86
75	Viscosity modification of different vegetable oils with EVA copolymer for lubricant applications. Industrial Crops and Products, 2010, 32, 607-612.	2.5	167
76	Rheology of lubricating greases modified with reactive NCOâ€terminated polymeric additives. Journal of Applied Polymer Science, 2010, 118, 693-704.	1.3	2
77	Oleins as a source of estolides for biolubricant applications. Grasas Y Aceites, 2010, 61, 171-174.	0.3	28
78	Influence of soap/polymer concentration ratio on the rheological properties of lithium lubricating greases modified with virgin LDPE. Journal of Industrial and Engineering Chemistry, 2009, 15, 687-693.	2.9	36
79	Transient shear flow of model lithium lubricating greases. Mechanics of Time-Dependent Materials, 2009, 13, 63-80.	2.3	19
80	Viscosity Modification of High-Oleic Sunflower Oil with Polymeric Additives for the Design of New Biolubricant Formulations. Environmental Science & Technology, 2009, 43, 2060-2065.	4.6	71
81	Development of new green lubricating grease formulations based on cellulosic derivatives and castor oil. Green Chemistry, 2009, 11, 686.	4.6	74
82	Optimization of the Methylation Conditions of Kraft Cellulose Pulp for Its Use As a Thickener Agent in Biodegradable Lubricating Greases. Industrial & Engineering Chemistry Research, 2009, 48, 6765-6771.	1.8	24
83	Rheological Modification of Lubricating Greases with Recycled Polymers from Different Plastics Waste. Industrial & Engineering Chemistry Research, 2009, 48, 4136-4144.	1.8	31
84	Recycled and virgin LDPE as rheology modifiers of lithium lubricating greases: A comparative study. Polymer Engineering and Science, 2008, 48, 1112-1119.	1.5	15
85	Influence of molecular weight and free NCO content on the rheological properties of lithium lubricating greases modified with NCO-terminated prepolymers. European Polymer Journal, 2008, 44, 2262-2274.	2.6	22
86	Rheology and microstructure of lithium lubricating greases modified with a reactive diisocyanate-terminated polymer: Influence of polymer addition protocol. Chemical Engineering and Processing: Process Intensification, 2008, 47, 528-538.	1.8	18
87	Effect of thermo-mechanical processing on the rheology of oleogels potentially applicable as biodegradable lubricating greases. Chemical Engineering Research and Design, 2008, 86, 1073-1082.	2.7	38
88	Transient Shear Flow of Model Lithium Lubricating Greases. AIP Conference Proceedings, 2008, , .	0.3	0
89	Development of new lubricating grease formulations using recycled LDPE as rheology modifier additive. European Polymer Journal, 2007, 43, 139-149.	2.6	55
90	Influence of Soap Concentration and Oil Viscosity on the Rheology and Microstructure of Lubricating Greases. Industrial & Engineering Chemistry Research, 2006, 45, 1902-1910.	1.8	112

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91	Use of Reactive Diisocyanate-Terminated Polymers as Rheology Modifiers of Lubricating Greases. Industrial & Engineering Chemistry Research, 2006, 45, 4001-4010.	1.8	18
92	Thermorheological behaviour of a lithium lubricating grease. Tribology Letters, 2006, 23, 47-54.	1.2	92
93	Processing and Formulation of Lithium Lubricating Greases. AIP Conference Proceedings, 2006, , .	0.3	0
94	Relationship Among Microstructure, Rheology and Processing of a Lithium Lubricating Grease. Chemical Engineering Research and Design, 2005, 83, 1085-1092.	2.7	85
95	Mixing rheometry for studying the manufacture of lubricating greases. Chemical Engineering Science, 2005, 60, 2409-2418.	1.9	71
96	Rheological Properties of Tomato Paste: Influence of the Addition of Tomato Slurry. Journal of Food Science, 2003, 68, 551-554.	1.5	43
97	Non-linear viscoelasticity modeling of tomato paste products. Food Research International, 2003, 36, 911-919.	2.9	38
98	Influence of processing on the rheological properties of tomato paste. Journal of the Science of Food and Agriculture, 2002, 82, 990-997.	1.7	52
99	Linear viscoelasticity of tomato sauce products: influence of previous tomato paste processing. European Food Research and Technology, 2002, 214, 394-399.	1.6	25
100	Rheological characteristics of ground tire rubber-modified bitumens. Chemical Engineering Journal, 2002, 89, 53-61.	6.6	114
101	Wall Slip Phenomena in Oil-in-Water Emulsions: Effect of Some Structural Parameters. Journal of Colloid and Interface Science, 2001, 241, 226-232.	5.0	37
102	Modeling of the Non-Linear Rheological Behavior of a Lubricating Grease at Low-Shear Rates. Journal of Tribology, 2000, 122, 590-596.	1.0	46
103	Non-biaryl atropisomers derived from carbohydrates. Part 2. Atropisomeric behavior of monocyclic and bicyclic imidazolidine-2-ones and 2-thiones. Tetrahedron, 1999, 55, 4401-4426.	1.0	13
104	Non-biaryl atropisomers derived from carbohydrates. Part 1. Stereoselective synthesis of 1-aryl-5-hydroxyimidazolidine-2-thiones and their transformation into imidazoline-2-thiones. Tetrahedron, 1999, 55, 4377-4400.	1.0	20
105	Condensation of 2-amino-2-deoxysugars with isothiocyanates. Synthesis of cis-1,2-fused glycopyrano heterocycles.. Tetrahedron, 1994, 50, 3273-3296.	1.0	23
106	The reaction of 2-amino-2-deoxyhexopyranoses with isocyanates. Synthesis of ureas and their transformation into heterocyclic derivatives.. Tetrahedron, 1993, 49, 2655-2675.	1.0	28
107	On the mechanism of formation of glycofurano[2,1-d]-imidazolidin-2-ones. Reaction of 2-amino-2-deoxyheptopyranoses with isocyanates.. Tetrahedron, 1993, 49, 2676-2690.	1.0	26
108	A novel regio- and highly stereoselective anomeric deacetylation of 2-aminosugar derivatives. Tetrahedron Letters, 1993, 34, 1359-1362.	0.7	16