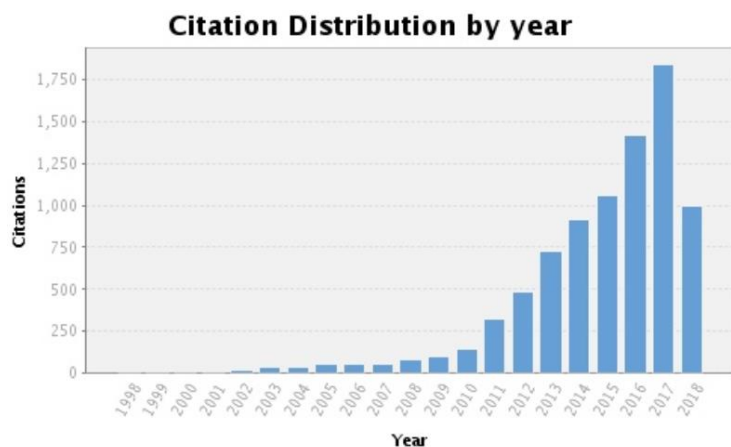


List of Publications Prof. Orlando J. Rojas



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Citations: 13245

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Patents

1. Hall L.J., Deville J.P., **Rojas O.J.**, Carrillo C.A., Salas C.L.: [WO2016099537](#) (A1) — 2016-06-23 Additive of chemically-modified cellulose nanofibrils or cellulose nanocrystals.
2. Hall L.J., Deville J.P., **Rojas O.J.**, Carrillo C.A., Salas C.L.: [WO2016099534](#) (A1) — 2016-06-23 Additive of cellulose nanofibrils or nanocrystals and a second polymer.
3. Tripathi, Anurodh; Khan, Saad A.; **Rojas O.J.**:[WO2017127828](#) (A1) — 2016-01-21 Cellulose acetate aerogels

Presentations in Conferences and Seminars

2018

1. Emily G. Facchine, Sooah Jin, Richard J. Spontak, Orlando J. Rojas, and Saad A. Khan, Understanding self-assembly and ionic strength interactions of cellulose nanocrystals using isothermal titration calorimetry and rheology, American Chemical Society, New Orleans, LA. March 2018.
2. Facchine E.G., **Rojas O.J.**, Khan S.A., Microstructural dynamics and rheology of flocculated micro/nanofibrillated cellulose suspensions” American Chemical Society in New Orleans, LA. March 2018.
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4. Facchine E.G., Sooah J., Spontak R.J., **Rojas O.J.**, Khan S.A., Liquid crystal ordering transition and colloidal interactions of cellulose nanocrystals, American Physical Society in Los Angeles, CA. March 2018
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115. Osorio, **Rojas O.J.**, et al., Functionalization of bacterial nanocellulose membranes with *Triticum vulgare* for wound dressing applications, **249th ACS National Meeting**, Denver, CO, March 22-26, 2015.
116. Pereira, **Rojas O.J.**, et al., Mill wood lignin interactions with monocomponent cellulases, **249th ACS National Meeting**, Denver, CO, March 22-26, 2015.
117. Peresin, **Rojas O.J.**, et al., The role of ligno-nanocellulosics in the biorefinery concept, **3rd Iberoamerican Conference and 4th LatinaAmericl Congress on Biorefineries, 2nd International**

Symposium on Lignocellulosic Materials, November 22-25, 2015, Concepcion, Chile.

118. **(Plenary talk) Rojas O.J.**, Production of nanocellulose from lignin-containing fibers and application prospects, **COIR KERALA 2015**, organized by Government of Kerala, Alappuzha Kerala, India, February 1-2, 2015.
119. **(Plenary) Rojas O.J.**, Lignin colloids as biorefinery material and their applications, **1st International Workshop on Biorefinery of Lignocellulosic Materials (IWBLCM)**, Córdoba, Spain, June 9-12, 2015
120. **(Plenary) Rojas O.J.**, (Nano)cellulose as support for bio-interfaces and bioactive materials, **4th EPNOE International Polysaccharide Conference**, Warsaw, Poland, October 19-22, 2015.
121. **(Key Note) Rojas O.J.**, Valorization of Biorefinery Streams by the Development of Advanced Materials from Lignin and Nano/micro-celluloses, **3rd Iberoamerican Conference and 4th LatinaAmericical Congress on Biorefineries, 2nd International Symposium on Lignocellulosic Materials**, November 22-25, 2015, Concepcion, Chile.
122. **(Invited talk) Rojas O.J.**, et al., Surface modification of nanocellulose to engineer responsive materials, **249th ACS National Meeting**, Denver, CO, March 22-26, 2015.
123. **(Invited talk) Rojas O.J.**, Nanocelluloses: Natural Fiber Deconstruction and (Re)Assemblage to Engineer New Materials, **International Conference Natureal Fibers ICNF 2015**, Azores, Portugal, April 27-28, 2015
124. **(Invited talk) Rojas O.J.**, Biobased nanomaterials and useful high order structures: constructions under the principles of colloid and interface science, **Nanoforum 2015**, University of Helsinki, May 21, 2015.
125. **(Invited talk) Rojas O.J.**, Valorization of Residual Biomass: A conscious but also technical proposition, **COST Action FP 1105**, Donostia, Spain, May 26-27, 2015.
126. **(Invited talk) Rojas O.J.**, Usos de la lignina en las biorrefinerías, **Workshop INIA “Biorrefinerías y sus posibilidades”**, Madrid, Spain, June 8, 2015.
127. **(Invited talk) Rojas O.J.**, Nanocelluloses in the Construction of Multiphase Systems. **98th Canadian Chemical Society Conference**, Ottawa, Canada, June 13-17, 2015.
128. **(Invited talk) Rojas O.J.**, Lignin and lignocellulose nanofibers: Fundamentals and application prospects, **ISWFPC 2015: 18th International Symposium on Wood, Fibre and Pulping Chemistry**, Vienna, September 9-11, 2015
129. **(Invited talk) Rojas O.J.**, Recent Advances in the Development of Structured Materials from Nanocellulose and Biobased Polymers, **XI Simposio Argentino de Polímeros - SAP 2015**, Santa Fe, Argentina, October 20-23, 2015.
130. **(Invited seminar) Rojas O.J.**, Valorization of Biorefinery Streams by the Development of Advanced Materials from Lignin and Nano/micro-celluloses, **Department of Wood Science, Universidad del**

Bio Bio, Concepcion, Chile, November 24, 2015.

131. **(Invited seminar) Rojas O.J.**, Recent Advances in Lignin and Nano/micro-cellulose Research, **Celulosa Arauco Research Center**, Nueva Aldea, Chile, November 25, 2015.
132. **(Invited seminar) Rojas O.J.**, Nanocellulose: formulation-composition 2-D emulsion maps, **Nanocellulose 2015**, University of Vienna, Vienna, Austria, September 27, 2015.
133. **(Invited seminar) Rojas O.J.**, Multiphase systems, relevance and measuring tools, “Physics and Chemistry in Polysaccharide Science: From Molecules to Materials”, **COST FP 1205 course**, Warsaw, Poland, October 18, 2015
134. **(Invited seminar) Rojas O.J.**, Surfaces and Colloids in (nano)LignoCellulose Research, **Institute for Chemistry and Technology of Materials (ICTM) of Graz University of Technology**, Graz, Austria, January 29, 2015
135. **(Invited seminar) Rojas O.J.**, Using Colloids and Interfaces to Live from Trees, **Physikalisch-Chemischen Kolloquium, Universität Stuttgart**, Institut für Physikalische Chemie, Stuttgart, Germany, April 21, 2015.
136. **(Invited seminar) Rojas O.J.**, Valorization of Residual Lignocellulosic Biomass: from Nutraceuticals to Carbon Fibers, **Sapphire Cocoa Co-Product MARS Workshop**, Morristown, NJ, USA, August 24-25, 2015.
137. **(Invited seminar) Rojas O.J.**, Immobilization of biomolecules on cellulosic substrates (immunoassays, diagnostics and affinity bioseparation), Pre-symposium Workshop, **ISWFPC 2015: 18th International Symposium on Wood, Fibre and Pulping Chemistry**, Tulln, September 07-08, 2015.
138. **(Invited seminar) Rojas O.J.**, Surface Modification of nano/micro-fibrillated cellulose and stimuli-responsive multi-phase systems, **Dept. Fiber and Polymer Science, KTH**, Stockholm, Sweden, October 28, 2015.
139. **(Invited seminar) Rojas O.J.**, Nanocellulose and Multi-phase Systems Approached by Formulation Engineering, **Department of Chemistry and Corrosion Science, KTH and SP**, Stockholm, Sweden, November 05, 2015.
140. **(Invited seminar) Rojas O.J.**, Lignin effects in NMFC, **Metsä Fibre**, August 19, 2015.
141. **(Invited web seminar) Rojas O.J.**, Using Colloids and Interfaces to Valorize Plant Fiber, **Universidad de Carabobo**, Venezuela, Online talk, May 28, 2015.
142. **Rojas O.J.**, Surface interaction forces in nanocellulose systems, **89th ACS Colloids and Surface Symposium**, Carnegie Mellon University, Pittsburgh, PA, June 15 - June 17, 2015
143. **Rojas O.J.**, Lignin: A Friend of a Foes in Nanocellulosics?, **2015 International Conference on Nanotechnology for Renewable Nanomaterials**, 22-25 June 2015 - Atlanta, Georgia, USA

144. **Rojas O.J.**, Nanocellulose Meeting the Oil/Water Interface: Emulsion and Applications, **2015 International Conference on Nanotechnology for Renewable Nanomaterials**, 22-25 June 2015 - Atlanta, Georgia, USA
145. **Rojas O.J.**, Wood and Nanocellulose: deconstruction and assembly via multiphase systems, **COST Action FP1105 workshop, Empa**, Dübendorf, Switzerland, August 31-September 1, 2015.
146. **Rojas O.J.**, Surfaces and Colloids in (nano)LignoCellulose Research, **CIDETEC, Parque Científico y Tecnológico de Gipuzkoa**, Donostia, Spain, May 26, 2015.
147. **Rojas O.J.**, Living from trees, **High 5 (University 5th year celebration)**, Aalto University, February 27, 2015.
148. **Rojas O.J.** Emulsified systems containing cellulose nanofibrils (CNF), **249th ACS National Meeting**, Denver, CO, March 22-26, 2015.
149. **Rojas O.J.**, Ligno-nanocelluloses: Recent developments and prospects, **Summer school on Frontiers in nanocellulosics: metrology and applications**, Espoo, Finland, September 22-25, 2015
150. Rojo, **Rojas O.J.**, et al., Investigating the effect of residual lignin on cellulose nanofibrils and nanopapers properties, **ISWFPC 2015: 18th International Symposium on Wood, Fibre and Pulping Chemistry**, Vienna, September 9-11, 2015
151. Salas C., **Rojas O.J.**, et al., Lignin-soy protein aerogels, **249th ACS National Meeting**, Denver, CO, March 22-26, 2015.
152. Salas, **Rojas O.J.**, et al., Surface finishes from Soybean proteins, **TAP Fiber Meeting**, Charlotte, NC, August 18, 2015
153. Tayeb S.A.H.M., **Rojas O.J.** et al., Monitoring the effect of surfactant type and process condition on sebum removal from CNF/PET surfaces in an aqueous solution using QCM/SPR technique, **249th ACS National Meeting**, Denver, CO, March 22-26, 2015.
154. Tayeb S.A.H.M., **Rojas O.J.** et al., QCM/SPR to study the oxidation and removal of unsaturated fatty acids from NFC and PET surfaces by lipooxygenase treatment, **249th h ACS National Meeting**, Denver, CO, March 22-26, 2015.
155. Tsalagkas D., Dimic-Misic K., Gane P., **Rojas O.J.**, Maloney T., Csoka L., Rheological behaviour of sonochemically prepared bacterial cellulose aqueous dispersions, **6th International Symposium on Industrial Engineering**, Belgrado, September 24-26, 2015.
156. Tuukkanen, **Rojas O.J.**, et al., Piezoelectric sensitivity measurement for nanofibrillated cellulose film sensors, **IMEKO 2015 conference, XXI World Congress IMEKO**, Prague, Czech Republic, August 30-September 4, 2015.
157. Vuoriluoto M., **Rojas O.J.** et al., Modification of cellulose with PDMAEMA-block-POEGMA copolymers to control protein affinity for detection and separation, **249th ACS National Meeting**,

Denver, CO, March 22-26, 2015.

158. Vuoriluoto M., **Rojas O.J.**, et al.: Control of protein affinity in bioactive nanocellulose by passivation with engineered PDMAEMA-block-POEGMA copolymers and false positive responses, **COST Action FP 1105**, Donostia, Spain, May 26-27, 2015.
159. Wang, **Rojas O.J.**, et al., Wood meets art, **COST Action FP1105 workshop, Empa**, Dübendorf, Switzerland, August 31-September 1, 2015.
160. Xiang, **Rojas O.J.**, et al., Foam forming with cellulosic fibers, **COST Action FP1105 workshop**, Empa, Dübendorf, Switzerland, August 31-September 1, 2015.
161. Surfaces and Colloids in (nano)LignoCellulose Research, Meeting with Japan delegation, Aalto University, February 23, 2015.
162. Nanocellulose from wood, Dean Circle, Aalto University's CHEM, Espoo, Finland, April 16, 2015.

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163. Ago M., Jakes J.E., Johansson L.-S., Silveira J.V.W., Park S.K., **Rojas O.J.**, Interfacial and thermal-mechanical properties of composite nanofibers containing lignin and cellulose nanocrystals, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
164. Ago M., Jakes J.E., Silveira J.V.W., **Rojas O.J.**, Nanoindentation and space-resolved thermal analysis of lignin-based nanofibers and films, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
165. Arboleda J.C., **Rojas O.**, Lucia L., Ionic complexes based on soy protein for fiber processing, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
166. Arcot L.R., Ikkala O., **Rojas O.J.**, Laine J., Size selective adsorption of proteins on nano-forest of cellulose nanocrystals, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
167. Carrillo C.A., Saloni D., **Rojas O.J.**, Laine J., Fiber pretreatment in the production of cellulose nanofibrils, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
168. Castro C., Durango L., Florez A., García M., Osorio M., Ortiz I., Cadavid P., Zuluaga R., **Rojas O.J.**, Gañán P., Wound dressing biomaterials from bacterial nanocellulose and wheat germ (*Triticum vulgare*) extracts, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
169. Castro C., Castro D., Díaz, J., Morales L., Zuluaga R., Putaux J.-L., Osorio M., Caro G., **Rojas O.J.**, Gañán P., Performance of bacterialcellulose for tissue culture of commercial plants, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
170. Cusola O., Valls C., Vidal T., Roncero M.B., **Rojas O.**, Functionalization of cellulosic model substrates via laccase mediated coupling of non-polar particles, **13th European Workshop on Lignocellulosics and Pulp**, Seville, Spain, June 24-27, 2014

171. Cortés M., Amaya M., Zuluaga R., **Rojas O.J.**, Cortés M., Gañán P., Castro C., Isolation of acid soluble collagen from bovine *Bos primigenius indicus* femur bones, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
172. Ferrer Carrera A., Hoeger I., Lu X.M., **Rojas O.J.**, Thermoplastic matrix reinforced with lignocellulose nanofibrils (LCNF): Effect of the lignin content, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
173. Filpponen I., Junka K., Guo J.Q., Laine J., **Rojas O.J.**, Modification of cellulose nanofibrils (CNF) with luminescent carbon dots (CDs), **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
174. Fritz C., **Rojas O.J.**, Microemulsions as a green biomass pretreatment for bioconversion, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
175. Guo J.Q., Filpponen I., Hinestroza J., **Rojas O.J.**, Laine J., Cellulose nanofibrils modified with noble metal nanoparticles, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
176. Guo J.Q., Filpponen I., Hinestroza J., **Rojas O.J.**, Laine J., Cellulose nanofibrils modified with noble metal nanoparticles, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
177. Hoeger I.C., **Rojas O.J.**, Zhu J.Y. Production of high-value nanomaterials from beetle-killed Lodgepole pine, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
178. Li S., Mazloumpour M., Willoughby J., **Rojas O.J.**, Properties and energy prospects of bitumen-in-water fuel emulsions stabilized by carboxymethylated lignins, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
179. Morales L.O., Castro C., Laine J., **Rojas O.J.**, Bacterial cellulose as biomolecule carrier, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
180. Nypelö T., Marcocchia B., **Rojas O.J.**, Lignin as precursor for functional particles, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
181. Park J.Y., Kwang H.L., Hubbe M.A., **Rojas O.J.**, Park S.K., Chemical and structural changes in thermally-treated lignocellulosic biomass and its properties in applications as adsorbents for aromatic contaminants, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
182. Rahikainen J.L., Martin-Sampedro R., Heikkinen H., Rovio S., Marjamaa K., Tamminen T., **Rojas O.J.**, Kruus K., Effect of lignin chemistry on non-productive enzyme adsorption in the enzymatic hydrolysis of lignocellulose, **13th European Workshop on Lignocellulosics and Pulp**, Seville, Spain, June 24-27, 2014.
183. **Rojas O.J.**, Outlook for nanocellulose production and materials, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
184. Rojo E., Laine J., **Rojas O.J.**, Revisiting the effect of residual lignin on the properties of cellulose nanofibrils and nanopapers, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.

185. Salas C.L., Ago M., **Rojas O.J.**, Synthesis of soy protein-lignin composite sub-micron fibers, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
186. Tayeb S.A.H.M., Wing K.D., **Rojas O.J.**, Soy proteins and lipoxygenases to control hydrophobic interactions in papermaking systems, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.
187. Uddin Khan, M.A., Arcot L.R., Laine J., **Rojas O.J.**, Role of sulfonate groups in CNC mediated silver nanoparticle synthesis, **247th ACS National Meeting**, March 16-20, Dallas, TX, 2014.

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188. Arboleda J., **Rojas O.J.**, *et al.*, Super-Strong Soy Protein/Nanocellulose Composite Aerogels, **Tappi International Conference on Nanotechnology for Renewable Materials**, June 24-27, 2013.
189. Arboleda J.C., **Rojas O.J.**, Lucia L.A., Laine J., Synthesis and characterization of soy protein-nanocellulose composite aerogels, **245th ACS National Meeting**, New Orleans, Louisiana, April 7-11, 2013.
190. Arcot L.R., Seitsonen J., Nykänen A., Johansson L.-S., Campbell J., Ruokolainen J., Ikkala O., **Rojas O.J.**, Laine J., Asymmetric thiolation of cellulose nanocrystals using reductive amination of reducing ends, **245th ACS National Meeting**, New Orleans, Louisiana, April 7-11, 2013.
191. Carrillo C.A., Laine J., **Rojas O.J.**, Novel Pretreatment in the Manufacture of Nanofibrillated Cellulose *via* Microfluidization , **245th ACS National Meeting**, New Orleans, Louisiana, April 7-11, 2013.
192. Carrillo C.A., Saloni D., **Rojas O.J.**, Effect of composition and formulation variables in biomass flooding capacity by o/w microemulsions, **245th ACS National Meeting**, New Orleans, Louisiana, April 7-11, 2013.
193. Castro C., Zuluaga R., Putaux J-L., Osorio M., Caro G., **Rojas O.J.**, Gañán P., *In situ* self-assembly and hydrophobization of Gluconacetobacter bacterial cellulose, **245th ACS National Meeting & Exposition**, New Orleans, Louisiana, April 7-11, 2013.
194. Csoka L., **Rojas O.J.** ZnO-Bacterial Cellulose Nanocrystal Composite and its Potential as Energy Harvesting Material, **Tappi International Conference on Nanotechnology for Renewable Materials**, June 24-27, 2013.
195. Cusola O., **Rojas O.J.** *et al.*, Hydrophobization of Cellulosic Substrates by Creating Surface Nanostructures Using Enzymatic Methods, **Tappi International Conference on Nanotechnology for Renewable Materials**, June 24-27, 2013.
196. Filpponen I., Orelma H., Johansson L.-S., Österberg M., **Rojas O.J.**, Laine J. Surface functionalized nanofibrillar cellulose (NFC) film as a platform for immunoassays and diagnostics, **245th ACS National Meeting**, New Orleans, Louisiana, April 7-11, 2013.

197. Filpponen I., **Rojas O.J.** *et al.*, Surface Functionalized Nanofibrillar Cellulose (NFC) Film as a Platform for Immunoassays and Diagnostics, **Tappi International Conference on Nanotechnology for Renewable Materials**, June 24-27, 2013.
198. Hoeger I.C., **Rojas O.J.**, Zhu J.F-S., Mechanical deconstruction of lignocellulose cell walls and production of nanopaper, **245th ACS National Meeting**, New Orleans, Louisiana, April 7-11, 2013.
199. Hoeger I.C., Nair S.S., Ragauskas A.S., Deng Y., **Rojas O.J.**, Zhu J.F-S., Influence of the deconstruction of the cell wall in the enzymatic saccharification of softwoods, **245th ACS National Meeting**, New Orleans, Louisiana, April 7-11, 2013.
200. Kontturi E., **Rojas O.J.**, *et al.* 2-Dimensional Nanoscale Structures from Cellulosic Materials, **Tappi International Conference on Nanotechnology for Renewable Materials**, June 24-27, 2013.
201. Li S., Mazlumpour M., Willoughby J., **Rojas O.J.**, Phase behavior and properties of the oil-in-water emulsions stabilized by carboxymethylated and acetylated lignins, **245th ACS National Meeting**, New Orleans, Louisiana, April 7-11, 2013.
202. Morales L.O., Iakovlev M., Rahikainen Johansson L.-S., Martin, R., Laine J., van Heiningen A., **Rojas O.J.**, Effects of lignin and hemicelluloses on the enzymatic hydrolysis of nanofibrillated softwood lignocellulose after SO₂-ethanol-water (SEW) fractionation, **245th ACS National Meeting**, New Orleans, Louisiana, April 7-11, 2013.
203. Nypelo, T., Rodriguez-Abreu C., Rivas J., Dickey M., **Rojas O.J.**, Magnetic cellulose nanocrystals: Demonstration and properties of organic-inorganic hybrid system, **245th ACS National Meeting**, New Orleans, Louisiana, April 7-11, 2013.
204. Nypelö T., **Rojas O.J.**, *et al.*, Magnetic Cellulose Nanocrystal Hybrid, **Tappi International Conference on Nanotechnology for Renewable Materials**, June 24-27, 2013.
205. Nypelo, T., Ago M., Li S. **Rojas O.J.**, Lignin nano- and microparticles for coating and interfacial stabilization, **245th ACS National Meeting**, New Orleans, Louisiana, April 7-11, 2013.
206. **Rojas O.J.** Fibras Bioactivas, **XXI LatinAmerican Congress on Textile Chemistry**, Medellin, Colombia, September 3, 2013
207. **Rojas O.J.** Integration of Lignocellulose and Soy Proteins: Adhesion Modification, Papermaking and Fibers, **Simposio Internacional sobre Materiales Lignocelulosicos**, Iguazu, Argentina August 20-21, 2013
208. **Rojas O.J.** Nanoparticles and Nanostructures from Direct- and Self- Assembly of Components Cleaved from Fiber Cell Walls, **Tappi International Conference on Nanotechnology for Renewable Materials**, June 24-27, 2013.
209. **Rojas O.J.** Cellulose synthesis, structure, matrix interactions and technology”International Meeting organized by the Center for Lignocellulose Structure and Formation at Penn State University, University Park, PA, May 16-18 May, 2013

210. **Rojas O.J.** “Frontiers in nanocellulose research and utilization”, **Nordic Polymer Days 2013**, University of Helsinki, May 29-31, 2013
211. Salas C.L., **Rojas O.J.**, Genzer J., Hubbe M.A., Lucia L., Surface modification of hydrophobic substrates by soy protein adsorption, **245th ACS National Meeting**, New Orleans, Louisiana, April 7-11, 2013.
212. Silveira J.V.W., Millas A.L.G., Ago M., **Rojas O.J.**, Bittencourt E., Cellulose acetate/lignin-based electrospun fibers, **245th ACS National Meeting**, New Orleans, Louisiana, April 7-11, 2013.
213. Taajamaa L., **Rojas O.J.**, Laine J., Kontturi E., Protein-assisted 2D assembly of gold nanoparticles on an ultrathin cellulose film, **245th ACS National Meeting**, New Orleans, Louisiana, April 7-11, 2013.
214. Zhang, **Rojas O.J. et al.**, Nanofibrillated Cellulose as Carrier for Short Peptides Assemblies for Human IgG Detection and Affinity Separation, **Tappi International Conference on Nanotechnology for Renewable Materials**, June 24-27, 2013.
215. Zhang Y., **Rojas O.J.**, Islam N., Carbonell R. Short peptide-conjugated copolymer based biosensor for specific binding of immunoglobulin G., **245th ACS National Meeting**, New Orleans, Louisiana, April 7-11, 2013.
216. Zuluaga R., **Rojas O.J. et al.**, Self-Assembly of Cellulose Fibrils/SiO₂ Nanoparticles During Synthesis by Gluconacetobacter Bacteria, **Tappi International Conference on Nanotechnology for Renewable Materials**, June 24-27, 2013.
217. Zuluaga R., **Rojas O.J.** Reinforcing Nanocellulose Isolated from Banana Rachis and Corn Husk, **Tappi International Conference on Nanotechnology for Renewable Materials**, June 24-27, 2013.

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218. Abdelgawad A.M., Hudson S.M., **Rojas O.J.**, Wound dressing materials with synergistic antibacterial activity from electrospun tri-component (chitosan/silver-NPs/polyvinyl alcohol) fiber mats, **243rd ACS National Meeting**, San Diego, CA, March 25-29, 2012
219. Ago M., Silveira J., Taajamaa L., Jakes J.E., Kontturi K., Bittencourt E., Laine J., **Rojas O.J.**, Electrospun Micro- and Nano- Fibers from Multicomponent Lignocellulose Systems: Functional Materials with Special Surface, Mechanical and Thermal Properties, **International Conference on Pulping, Papermaking and Biotechnology (ICPPB'12)**, Nanjing, China, November 7-9, 2012
220. Ago A., Lo M., Sahagian K., Shetty R., Silveira J.V.W., Okajima K.M., Park S., **Rojas O.J.**, Molecular interactions in bi- and tri- component fibers after electrospinning from lignin solutions, **243rd ACS National Meeting**, San Diego, CA, March 25-29, 2012
221. Arboleda J.C., **Rojas O.J.**, Lucia L.A., Laine J. Colloidal characterization of soy peptides, **243rd ACS National Meeting**, San Diego, CA, March 25-29, 2012
222. Carrillo C., **Rojas O.J.** High water content microemulsions as a novel method for wood pretreatment

and extraction, **12th European Workshop on Lignocellulosics and Pulp**, Espoo, Finland, August 27-30, 2012.

223. Carrillo C.A., **Rojas O.J.**, Lucia L.A., Saloni D. Using surfactant-based complex fluids to flood the capillary structure of wood, **243rd ACS National Meeting**, San Diego, CA, March 25-29, 2012
224. Castro C.I., Zuluaga R., Putaux J.L., Mondragon I., **Rojas O.J.**, Gañan, P. Effect of physical and chemical crosslinking in the properties of composites after in-situ growth of bacterial cellulose in the presence of poly(vinyl alcohol), **243rd ACS National Meeting**, San Diego, CA, March 25-29, 2012
225. Ferrer A., Quintana E., Filpponen I., Laine J., Vidal T., Jiménez, L., Rodríguez A., **Rojas O.J.**, Effect of lignin in the properties of nanofibrillated cellulose (NFC) from birch pulp, **243rd ACS National Meeting**, San Diego, CA, March 25-29, 2012
226. Filpponen I., Liu X., Laine J., **Rojas O.J.** Electrically conductive cellulose, **243rd ACS National Meeting**, San Diego, CA, March 25-29, 2012
227. Filpponen I., Lokanathan A., **Rojas O.J.**, Laine J. Click chemistry reactions on the reducing end groups of cellulose nanocrystals, **3rd International Cellulose Conference**, Sapporo, Japan, October 10-12, 2012.
228. Filpponen I., Laine J., **Rojas O.J.** Click chemistry for producing lignin-based novel materials, **International Conference on Pulping, Papermaking and Biotechnology (ICPPB'12)**, Nanjing, China, November 7-9, 2012.
229. Hoeger I., **Rojas O.J.**, Ultrathin film coatings of cellulose nanocrystals from Langmuir-Schaeffer and convective/shear assemblies and their surface properties, **International Paper Physics Conference & 8th International Paper and Coating Chemistry Symposium**, Stockholm, Sweden, June 10–14, 2012
230. Hoeger I., Filpponen I., Martin-Sampedro R., Johansson L.-S., Österberg M., Laine J., Kelley S. **Rojas O.J.** Bicomponent biosensors to study lignocellulose hydrolysis, **243rd ACS National Meeting**, San Diego, CA, March 25-29, 2012
231. Hubbe M.A., Payne K.C., Jackson C.D., Aizpurua C.E., **Rojas O.J.** Application of Cellulosic Fiber Materials for The Remediation of Petroleum Spills in Water, **International Conference on Pulping, Papermaking and Biotechnology (ICPPB'12)**, Nanjing, China, November 7-9, 2012.
232. Islam N., Shen F., Gurgel P.V., **Rojas O.J.**, Carbonell R. Equilibrium and dynamics of human IgG adsorption to novel peptide affinity ligands using Surface Plasmon Resonance, **243rd ACS National Meeting**, San Diego, CA, March 25-29, 2012
233. Junka K., Filpponen I., Kontturi E., **Rojas O.J.**, Laine J. Surface modification of cellulose by using functionalized polysaccharide and click chemistry, **243rd ACS National Meeting**, San Diego, CA, March 25-29, 2012
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Conference & 8th International Paper and Coating Chemistry Symposium, Stockholm, Sweden, June 10–14, 2012.

235. Martín-Sampedro R., Rahikainen J., Hoeger I., Marjamaa K., Kruus K., Filpponen, I., Laine J., **Rojas O.J.**, 4th Effects of Lignin on the Hydrolysis of Cellulose by Pure and Multicomponent Enzymes, **International Conference on Pulping, Papermaking and Biotechnology (ICPPB'12)**, Nanjing, China, November 7-9, 2012
236. Orelma H., Filpponen I., Johansson L.-S., **Rojas O.J.**, Laine J. Development of cellulose based biointerface for diagnostic and affinity filtration applications, **243rd ACS National Meeting**, San Diego, CA, March 25-29, 2012
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