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CRITERIOS PARA LA BÚSQUEDA (anexar pantallazo o reporte en PDF, junto con los booleanos utilizados)						
Palabras clave utilizadas		Gluconacetobacter, agente químico de entrecruzamiento es glioxal, catalizador ácido fosfórico				
CLASIFICACIONES INTERNACIONALES UTILIZADAS PARA LA BÚSQUEDA		C12M 1/00, C12N1/20, C12P19/04.				
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8	TAC(CROSS-LINKED- AND BACTERIAL- AND CELLULOSE- AND GLYOXAL-)	0	View	Browse	Hits	Options more...
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6	TAC(CROSS-LINKED- AND BACTERIAL- AND CELLULOSE- AND GLUCONACETOBACTER- AND USING- AND GLYOXALIZATION-)	0				
5	TAC(MICROORGANISM- OR GLUCONACETOBACTER-) CELLULOSE- AND GLYOXAL-)	102	View	Browse	Hits	Options more...
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2	TAC(MICROORGANISM- AND GLYOXAL-)	1	View	Browse	Hits	Options more...
1	TAC(GLUCONACETOBACTER- AND CELLULOSE- AND GLYOXAL-)	1	View	Browse	Hits	Options more...

- Artículos** **Sugerencia:** Buscar solo resultados en **español**. Puedes especificar el idioma de búsqueda en Configuración de Google Académico.
- Mi biblioteca** **In situ production of nanocomposites of poly (vinyl alcohol) and cellulose nanofibrils from *Gluconacetobacter* bacteria: effect of chemical crosslinking** [ncsu.edu \[PDF\]](#)
G. Castro, A. Vesterinen, B. Zuluaga, G. Caro, I. Filpponen... - *Cellulose*, 2014 - Springer
 ... strength have not been reported for PVA reinforced with different **cellulosic** elements (Zimmermann ...
 Caro G, Aguirre R, Putaux JL, Gan'an P (2013) **Gluconacetobacter medellinensis** sp. ... Raits T
 (2009) Poly(vinyl alcohol) nano- composites reinforced with **cellulose** fibrils isolated ...
 Citado por 8 Artículos relacionados Las 5 versiones Citar Guardar
- Cualquier momento** **In-situ glyoxalization during biosynthesis of bacterial cellulose**
G. Castro, N. Cordeiro, M. Faria, B. Zuluaga... - *Carbohydrate...*, 2015 - Elsevier
 ... Bacterial **cellulose production**. The **Gluconacetobacter** strain used in this study was previously
 isolated from a pellicle of homemade vinegar (Castro et al ... At each step the phenotypic
 characteristics of the microorganism and the ability to **produce cellulose** was verified using the ...
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- Desde 2015** **[PDF] Cristina Castro, Arja Vesterinen, Robin Zuluaga, Gloria Caro, Ilari Filpponen,** [researchgate.net \[PDF\]](#)
Orlando J. Rojas, Galder Kortaberria &
P. Gahán - Cellulose, 2014 - researchgate.net
 ... The observed increases in mechanical strength have not been reported for PVA reinforced with
 different **cellulosic** elements (Zimmermann et al. ... Poly(vinyl alcohol) nanocomposites were
produced in situ during cellulose synthesis by bacteria of the **Gluconacetobacter** genus. ...
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- Desde 2014** **Valorization of industrial waste and by-product streams via fermentation for the** [researchgate.net \[PDF\]](#)
production of chemicals and biopolymers
AA Koutinas, A. Vlysidis, D. Pleissner... - *Chemical Society...*, 2014 - pubs.rsc.org
 ... C6 metabolic products and single cell oil) and biopolymers (ie, polyhydroxyalkanoates and
 bacterial **cellulose**). ... com refineries managed to resist competition through innovation in
manufacturing a variety of ... 18 Theoretically, the glucose to ethanol **production** yield is 0.511 gg - ...
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- Desde 2011** **From monomers to polymers from renewable resources: Recent advances**
A. Gandini, TM Lacerda - *Progress in Polymer Science*, 2015 - Elsevier
 Considering the state of affairs related to polymers and their applications, the plastic-
 dependence of the modern society is evident and becomes now needless to.
 Citado por 11 Artículos relacionados Citar Guardar
- Intervalo específico...** **Wood fibres as reinforcements in natural fibre composites: structure, properties, processing**
and applications
D. Dai, M. Fan - *Natural Fibre Composites: Materials, Processes...*, 2014 - books.google.com
 ... paper and paperboard industry (about 80.5%), representing over 55% of total paper and
 paperboard **production**. ... been used as crosslink agents to crosslink the inter-chains of **cellulose**
 by reacting ... The crosslink modifica- tion of **cellulosic** fibres has always been carried out by ...
 Citado por 9 Artículos relacionados Citar Guardar
- Ordenar por relevancia** **Film forming microbial biopolymers for commercial applications—A review**
SVN Viavendia, TR Shamala - *Critical reviews in biotechnology*, 2014 - Taylor & Francis
 ... Klemm D, Schumann D, Udhardt U, Marsch S. (2001). Bacterial synthesized **cellulose** – artificial
 blood vessels for microsurgery. ... **Production** of EPS by *Lactobacillus* sp. ... (1993). *Lactobacillus* sp.
 KPB-167 and method of **manufacturing** viscose polysaccharide employing the same. ...
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Artículos académicos para **Cross-Linked Bacterial Cellulose gluconacetobacter glyoxal**

Cross-linked bacterial cellulose networks using ... - Quero - Mencionado por 19
... in **cross-linked** and grafted **bacterial cellulose**/poly (... - Quero - Mencionado por 17
... **cellulose** nanofibrils from **Gluconacetobacter bacteria**: ... - Castro - Mencionado por 8

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Cross-linked bacterial cellulose networks using glyoxalization.

www.ncbi.nlm.nih.gov/pubmed/21186815 - Traducir esta página
por F Quero - 2011 - Mencionado por 19 - Artículos relacionados
27 dic. 2010 - **Cross-linked bacterial cellulose** networks using glyoxalization. ...
Modulus; **Gluconacetobacter xylinus**/chemistry*; **Glyoxal**/chemistry*; **Glyoxal**/ ...

In-situ glyoxalization during biosynthesis of bacterial cellulose.

www.ncbi.nlm.nih.gov/pubmed/25933519 - Traducir esta página
por C Castro - 2015 - Artículos relacionados
14 mar. 2015 - A novel method to synthesize highly crosslinked bacterial cellulose (BC) is ... during biosynthesis of cellulose by **Gluconacetobacter medellensis** bacteria. ... extruded cellulose ribbons by reaction with the glyoxal precursors.

Patent WO2015028968A1 - Method for producing bacterial ...

www.google.com/patents/WO2015028968A1?cl=en
5 mar. 2015 - The invention relates to a method for producing **bacterial cellulose**, ...
A modified cellulose-producing microorganism of the genus **Gluconacetobacter**, characterized in that **bacterial cellulose** occurs in the presence of **glyoxal**. (2011)
Cross-linked bacterial cellulose using glyoxalization networks.

[PDF] Download (2MB) - UCL Discovery

discovery.ucl.ac.uk/.../Quero_Cross_linked_bacterial... - Traducir esta página
por F Quero - 2011 - Mencionado por 19 - Artículos relacionados
KEYWORDS Raman spectroscopy, **bacterial cellulose**, glyoxal, cross-linking, ...
Gluconacetobacter xylinum) have been found to be one of the most productive6 ...

[PDF] In-situ glyoxalization during biosynthesis of bacterial cellul...

www4.ncsu.edu/~ojrojas/PDF/2015_11.pdf - Traducir esta página
14 mar. 2015 - **Gluconacetobacter medellensis**. Crosslinking. Glyoxal. Surface energy ... A novel method to synthesize highly crosslinked bacterial cellulose ...

[PDF] and cellulose nanofibrils from Gluconacetobacter bacteria

www4.ncsu.edu/~ojrojas/PDF/2014_2.pdf - Traducir esta página
por C Castro - Mencionado por 8 - Artículos relacionados
and **cellulose** nanofibrils from **Gluconacetobacter bacteria**: ... Chemical crosslinking with **glyoxal** was ... in highly crosslinked nanocomposites that resisted.
Visítaste esta página el 14/12/15.

In-situ glyoxalization during biosynthesis of bacterial cellulose

www.researchgate.net/.../274461004_In-situ_glyoxal... - Traducir esta página
15 may. 2015 - A novel method to synthesize highly crosslinked bacterial cellulose (BC) is ... during biosynthesis of cellulose by **Gluconacetobacter medellensis** bacteria. ... extruded cellulose ribbons by reaction with the glyoxal precursors.

25—THE REACTIONS OF CELLULOSE WITH GLYOXAL ...

www.researchgate.net/.../233432657_25THE_REAC... - Traducir esta página
Article: In-situ glyoxalization during biosynthesis of **bacterial cellulose** ... in the culture medium during biosynthesis of cellulose by **Gluconacetobacter medellensis** bacteria. Strong crosslinked networks were formed in the contact areas between ...
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Cross-Linked Bacterial Cellulose Networks Using ...

pubs.acs.org/doi/abs/10.1021/am101065p - Traducir esta página
por F Quero - 2010 - Mencionado por 19 - Artículos relacionados
27 dic. 2010 - In this study, we demonstrate that **bacterial cellulose** (BC) networks can be **cross-linked** via glyoxalization. The fracture surfaces of samples ...

In-situ glyoxalization during biosynthesis of bacterial cellulose.

www.pubfacts.com/.../In-situ-glyoxalization-during-... - Traducir esta página
A novel method to synthesize highly crosslinked bacterial cellulose (BC) is reported. ... during biosynthesis of cellulose by **Gluconacetobacter medellensis** bacteria. ... between extruded cellulose ribbons by reaction with the glyoxal precursors.

Cross-Linked Bacterial Cellulose Networks Using ...

pubs.acs.org/doi/abs/10.1021/am101065p ▶ Traducir esta página

por F Quero - 2010 - **Mencionado por 19** - Artículos relacionados

27 dic. 2010 - The stress and strain at failure are, however, reduced after glyoxalization. However, ... **In-situ glyoxalization during biosynthesis of bacterial cellulose.** Cristina ...

Determination of Cotton-Bound Glyoxal via an Internal ...

pubs.acs.org/doi/abs/10.1021/ac000704r ▶ Traducir esta página

por C Schramm - 2000 - **Mencionado por 5** - Artículos relacionados

25 oct. 2000 - As a result, glyoxal was extracted from the cellulosic sample and converted into glycolate via an ... **In-situ glyoxalization during biosynthesis of bacterial cellulose.**

Interaction of Silane Coupling Agents with Cellulose (PDF ...

www.researchgate.net/.../231673664_Interaction_of... - Traducir esta página

8 may. 2013 - Interaction of Silane Coupling Agents with Cellulose Article: **In-situ glyoxalization during biosynthesis of bacterial cellulose** - Cristina Castro · Nereida ...

In situ imaging of collagen synthesis by osteoprogenitor ...

www.ncbi.nlm.nih.gov/pubmed/22010789 ▶ Traducir esta página

por C Brackmann - 2012 - **Mencionado por 22** - Artículos relacionados

9 dic. 2011 - **In situ** imaging of collagen **synthesis** by osteoprogenitor cells in microporous **bacterial cellulose** scaffolds. ... distributions and a clear increase in the amount of collagen when comparing measurements from two time points **during** growth.

Cellulose biosynthesis and function in bacteria.

www.ncbi.nlm.nih.gov > ... > PubMed Central (PMC) ▶ Traducir esta página

por P Ross - 1991 - **Mencionado por 856** - Artículos relacionados

15 mar. 1991 - Exclusively an extracellular product, **bacterial cellulose** appears to fulfill ... **during** symbiotic or infectious interactions in Rhizobium and Agrobacterium species. **In situ** studies and localization of the allosteric response in the E1 component

Novel In Vivo-Degradable Cellulose-Chitin Copolymer from ...

www.ncbi.nlm.nih.gov > ... > PubMed Central (PMC) ▶ Traducir esta página

por V Yadav - 2010 - **Mencionado por 19** - Artículos relacionados

23 jul. 2010 - **Bacterial cellulose** (BC), produced by Gluconacetobacter xylinus (formerly ... to incorporate GlcNAc sugar residues into cellulose **during de novo synthesis.**

Bacterial Cellulose Scaffolds and Cellulose Nanowhiskers

www.medscape.com/viewarticle/779256_6 ▶ Traducir esta página

8 feb. 2013 - The first such study described a proprietary material scaffold that consisted of BC formed **in situ** into a tubular form **during biosynthesis.** The authors cited the ...

Publications - Imperial College London

www3.imperial.ac.uk/.../publications ▶ Traducir esta página

por KY Lee - **Mencionado por 14** - Artículos relacionados

21 feb. 2009 - ... A., Bismarck, A., "More than meets the eye in **bacterial cellulose: Biosynthesis**, ... A novel method to produce an **in-situ** gravel pack", SPE J. 1(2012) 496-504. S.J. "Cross-Linked **Bacterial Cellulose** Networks Using **Glyoxalization**" ACS Appl. "Prem ature degradation of poly(α -hydroxyesters) **during** thermal processing ...

Quantitative determination of cellulose accessibility to cellulase based on adsorption of a nonhydrolytic fusion protein containing CBM and GFP with its applications researchgate.net [PDF]

J Hong, X Ye, YHP Zhang - Langmuir, 2007 - ACS Publications

... **Gluconacetobacter** hansenii (ATCC 23769) was used to produce bacterial cellulose (BC). ... cellulose (RAC), high-reactivity nonsubstitution homologous cellulose, was prepared from Avicel PH105 through cellulose slurry dissolution by concentrated **phosphoric acid**, as described ...

Citado por 172 Artículos relacionados Las 9 versiones Citar Guardar

Performance of improved bacterial cellulose application in the production of functional paper wiley.com [HTML]

AH Basta, H El-Saied - Journal of applied microbiology, 2009 - Wiley Online Library

... Dehydration reactions of polysaccharides, **catalysed** by many inorganic salts, lead to a higher portion of charring with a reduced amount ... (2008) prepared the phosphorylated bacterial cellulose (PCBC) using **phosphoric acid** and they ... BC produced from **Gluconacetobacter** subsp ...

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[PDF] Isolation of Phosphate-Solubilizing Bacteria from Different Fields Crop Productions

iserd.net [PDF]

K SUNGTHONGWISSE, CB IWAI, M MATSUOKA... - iserd.net

... Especially, *Klebsiella pneumoniae* strain M-AI-2 and **Gluconacetobacter** sp. ... Plants use **phosphorus** for adenosine triphosphate (ATP) synthesis. ... Normally, plants and microorganisms produce phosphatases which are released in the rhizosphere and **catalyze** the hydrolysis of ...

Artículos relacionados Citar Guardar Más

Degradation and Synthesis of β -Glucans by a *Magnaporthe oryzae* Endotransglucosylase, a Member of the Glycoside Hydrolase 7 Family

jbc.org [HTML]

M Takahashi, K Yoshioka, T Imai, Y Miyoshi... - Journal of Biological Chemistry, 2013 - ASBMB

... Results: A novel endotransglucosylase **catalyzes** cleavage and transfer of β -glucans and ... β -Glucosidases release glucose from β -glucans and simultaneously **catalyze** transglycosylation reactions ... a member of glycoside hydrolase family (GH) 12, **catalyzed** a transglycosylation ...

Citado por 3 Artículos relacionados Las 8 versiones Citar Guardar

Polyglucuronic acids: structures, functions and degrading enzymes

R Elboubachfai, C Delattre, E Petit, P Michaud - Carbohydrate Polymers, 2011 - Elsevier

... It was identified as **Gluconacetobacter** hansenii based on its physiological characteristics and sequence of gene encoding for 16S rDNA. ... Two **acidic** polymers were identified in the cell walls of alkalophilic *Bacillus* C-125, a teichuronic **acid** composed of galacturonic **acid** ...

Citado por 22 Artículos relacionados Las 2 versiones Citar Guardar

[LIBRO] The fertilizer encyclopedia

V Gowariker, VN Krishnamurthy, S Gowariker... - 2009 - books.google.com

... Page 23. This Page Intentionally Left Blank Page 24. AAS Absciscic **acid** AAS is short for atomic absorption spectrometer. ... Absciscic **acid** The name absciscic **acid** (ABA), a weak organic **acid**, is derived from the ability of a substance to promote abscission. ...

Citado por 55 Artículos relacionados Las 6 versiones Citar Guardar

The highly tolerant acetic **acid** bacterium **Gluconacetobacter** europaeus adapts to the presence of acetic **acid** by changes in lipid composition, morphological ...

J Trčák, K Jernejc, K Matsushita - Extremophiles, 2007 - Springer

... iodine vapours, scrapped off the TLC plate and quantified according to **phosphorous** content (Broekhuysen ... of enzyme activity was defined as the amount of enzyme **catalyzing** the oxidation ... C, Leonard G, Stackebrandt E, Sly LI (1999) Description of **Gluconacetobacter** sacchari sp ...

Citado por 40 Artículos relacionados Las 10 versiones Citar Guardar

Phosphate enhances levan production in the endophytic bacterium

tandfonline.com [HTML]

Gluconacetobacter diazotrophicus Pal5

N Idogawa, R Amamoto, K Murata, S Kawai - Bioengineered, 2014 - Taylor & Francis

... http://dx.doi.org/10.1007/s00253-009-2092-7; PMID: 19568745 [CrossRef] View all references since nitrogenase **catalyzes** a reaction ... Identification and characterization of **Gluconacetobacter** diazotrophicus mutants defective in the solubilization of **phosphorus** and zinc ...

Artículos relacionados Las 7 versiones Citar Guardar

Cloning, expression and characterization of a family-74 xyloglucanase from *Thermobifida fusca*

wiley.com [HTML]

DC Irwin, M Cheng, B Xiang, JKC Rose... - European Journal of Biochemistry, 2003 - Wiley Online Library

... SC **phosphoric acid** swollen cellulose. tamXG ... (A) Digestion of **Gluconacetobacter** xylinus cellulose (GBG) and cellulose ... The results of the NMR experiment show that Xeg74 and presumably all family-74 enzymes **catalyze** hydrolysis with inversion of the anomeric configuration. ...

Citado por 62 Artículos relacionados Las 6 versiones Citar Guardar

Fully automated chip-based negative mode nanoelectrospray mass spectrometry of fructooligosaccharides produced by heterologously expressed levansucrase from ...

researchgate.net [PDF]

T Visnapuu, AD Zamfir, C Mosoarca... - Rapid Communication, 2009 - Wiley Online Library

... According to the literature, some bacterial levansucrases, eg those from **Gluconacetobacter** diazotrophicus, 4, 5 ... Spots of fructose-containing sugars were visualized using the urea/**phosphoric acid** treatment. 13. ... 2(b) indicates that the Lsc3 protein was capable of **catalysis** also in ...

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gluconacetobacter cellulose production with glyoxal



20 resultados (0,08 s)

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In situ **production** of nanocomposites of poly (vinyl alcohol) and **cellulose** nanofibrils from **Gluconacetobacter** bacteria: effect of chemical crosslinking ncsu.edu [PDF]

C. Castro, A Vesterinen, R Zuluaga, G Caro, I Filpponen... - **Cellulose**, 2014 - Springer
... strength have not been reported for PVA reinforced with different **cellulosic** elements (Zimmermann ...
Caro G, Aguirre R, Putaux JL, Ganñán P (2013) **Gluconacetobacter** medellinensis sp. ... Rials T
(2009) Poly(vinyl alcohol) nano- composites reinforced with **cellulose** fibrils isolated ...
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Cross-linked bacterial **cellulose** networks using glyoxalization ucl.ac.uk [PDF]

F Quero, M Nogi, KY Lee, GV Poel... - ... applied materials & ..., 2010 - ACS Publications
... By cross-linking **cellulose** polymer chains via covalent bonds through glyoxalization, the effect
of this disruption of ... so could be used for a variety of applications; for example in composites
... **manufacturing** and biomedical ... Materials and Chemicals **Gluconacetobacter** xylinum (no. ...
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ha In-situ glyoxalization during biosynthesis of bacterial **cellulose**

C. Castro, N Cordeiro, M Faria, R Zuluaga... - Carbohydrate ..., 2015 - Elsevier
... The **Gluconacetobacter** strain used in this study was previously isolated from a pellicle of ...
ib Compared with regular synthesis procedures, no changes in BC **production** were observed after
the adaptation ... 1a and b shows **cellulose** ribbon networks formed in the medium without (BC ...
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tes [PDF] Cristina Castro, Arja Vesterinen, Robin Zuluaga, Gloria Caro, Ilari Filpponen, researchgate.net [PDF]

Orlando J. Rojas, Galder Kortaberria &
P Gañán - **Cellulose**, 2014 - researchgate.net
... The observed increases in mechanical strength have not been reported for PVA reinforced with
different **cellulosic** elements (Zimmermann et al. ... Poly(vinyl alcohol) nanocomposites were
produced in situ during **cellulose** synthesis by bacteria of the **Gluconacetobacter** genus. ...
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Interfaces in cross-linked and grafted bacterial **cellulose**/poly (lactic acid) resin composites researchgate.net [PDF]

F Quero, SJ Eichhorn, M Nogi, H Yano, KY Lee... - Journal of Polymers and ..., 2012 - Springer
... polymers are generally biodegradable, which makes them attractive materials for the **production**
of environmentally ... such as poly(vinyl alcohol) [18], acrylic resin [19] PLA [20–22] and **cellulose**
acetate butyrate [23]. ... BC pellicles were produced from **Gluconacetobacter** xylinum (no ...
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Valorization of industrial waste and by-product streams via fermentation for the **production** of chemicals and biopolymers researchgate.net [PDF]

AA Koutinas, A Vlysidis, D Pleissner... - Chemical Society ..., 2014 - pubs.rsc.org
... products and single cell oil) and biopolymers (ie, polyhydroxyalkanoates and bacterial **cellulose**). ...
corn refineries managed to resist competition through innovation in **manufacturing** a variety ... The
incorporation of fermentative **production** of basic building blocks as unit operations ...
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Nano-and macroscale structural and mechanical properties of in situ synthesized bacterial **cellulose**/PEO-b-PPO-b-PEO biocomposites researchgate.net [PDF]

A Tercjak, J Gutierrez, HS Barud... - ... applied materials & ..., 2015 - ACS Publications
... In the present work, bacterial **cellulose** based biocomposites modified with different EPE block
copolymer contents were biosynthesized and characterized. ... 2 Materials and Methods.
2.1 **Production** of Inoculum The strain used was **Gluconacetobacter** xylinum (ATCC 23760 ...
Citado por 2 Artículos relacionados Las 4 versiones Citar Guardar

Sustainable nanocomposite films based on bacterial **cellulose** and pullulan

E Trovatti, SCM Fernandes, L Rubatat, CSR Freire... - **Cellulose**, 2012 - Springer
... Food Technol Chic 51:61–74 Leathers TD (2003) Biotechnological **production** and applica- tions
of ... AJD, Neto CP, Pinto RJB, Gandini A (2010) Novel bacterial **cellulose**– acrylic resin ... E, Serafim
LS, Freire CSR, Silvestre AJD, Neto CP (2011) **Gluconacetobacter** sacchari: an ...
Citado por 22 Artículos relacionados Las 7 versiones Citar Guardar

In situ processing of **cellulose** nanocomposites

D Ray, S Sain - ... Part A: Applied Science and **Manufacturing**, 2015 - Elsevier
... Composites Part A: Applied Science and **Manufacturing**. ... The **production** of nanocellulose and
their application in composites have gained importance due to their high ... by an in situ melt
polycondensation reaction to obtain pre-dispersed bacterial **cellulose** nanowhiskers (BCNW ...
Citar Guardar

[PDF] Nanocellulose Polymer Nanocomposites: Fundamentals and Applications

VK Thakur - 2014 - books.google.com
... The properties and economics of fiber **production** for various applications are influenced by the
amount of **cellulose** in a fiber. In natural **cellulosic** fibers, stiff semicrystalline **cellulose** microfibrils
have been found to be embedded in a pliable amorphous matrix (Figure 1.3 ...
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