CURRÍCULUM VÍTAE NORMALIZADO

Pepijn Prinsen

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GOBIERNO DE ESPAÑA
MINISTERIO DE CIENCIA, INNOVACIÓN Y UNIVERSIDADES

FECYT FUNDACIÓN ESPAÑOLA PARA LA CIENCIA Y LA TECNOLOGÍA

Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

I am an ambitious researcher with 9 years R&D experience. In 2005, I completed my Master studies in Bio-engineer Sciences at Ghent University (Belgium), with a study program focused on process engineering, environmental remediation technologies & biocatalysis. After a 3-months internship at Viensol Renewable Energies S.L. (Madrid, Spain, 2006)In 2006, where I conducred techno-economic feasibility studies for the industrial production of biodiesel, I I started working in a public-private collaboration (2006-2007) to develop a biocatalytic production system of chlorine free disinfectant (Centre for Industrial Biotechnology and Biocatalysis, Ghent University). Hereafter (2007-2008), I completed a Superior Course in Energy Market and Renewable Energy (EOI, Seville, Spain). In 2010, I obtained a Master in Advanced Studies in Chemistry at the University of Seville. My PhD in Chemistry at the Institute for Natural Resources & Agrobiology of the Superior Council for Scientific Investigations (IRNAS-CSIC) covered the in-depth characterization of lignin and lipid fractions from various lignocellulose feedstocks for the production of pulps and biofuels (2009-2013). I successfully completed a 3-months international stay at the VTT Technical Research Centre of Finland (Finland, 2012), where I stufied the chemical and structural modifications of lignocellulose feedstocks during different alkaline cookings. In 2014, I started my postdoctoral research for 2 years at the Department of Heterogenous Catalysis and Sustainable Chemistry (Van ´t Hoff Institute for Molecular Sciences, University of Amsterdam, The Netherlands), where most of my research was dedicated to the (bio)catalytic valorization of lignins to key phenols and aromatics within the Cathbio project (Catalysis for Sustainable Chemicals from Biomass). I completed specific courses on high pressure tube fitting, industrial catalyst preparation methods and physical methods in inorganic chemistry. In 2017, I continued my postdoctoral research at the Department of Organic Chemistry at the University of Córdoba (Spain) until May 2018. My research activities were mostly related to the catalytic valorization of hemicellulose and lignin derived compounds, using efficient novel reactor technologies. Part of this research was completed during short stays (6-7 weeks) at the University of Technology of Compiègne (France) and KU Leuven (Belgium). In addition, I have initiated theoretical studies on sustainable microalgae derived production systems. Besides research, I also actively participated in teaching activities (lectures, seminars and laboratory classes). In 2019, I obtained a Master in Teaching in Secondary School, Professional Vocation and Language Centers, with specialization in Physics and Chemistry (University of Seville). I have excellent (C1 level) English, Spanish and French language skills (mother tongue: Dutch). To date, I have participated in 8 (inter)national research projects. I am (co-)author of 38 SCI articles and 1 book chapter, and co-editor of one book (citations: 1048, H-index = 16).

General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

H index: 16 (10/01/2020)
JCR articles: 38 (10/01/2020)
Book chapters (author): 1 (10/01/2020)
Books (editor): 1 (10/01/2020)
Citations: 1047 (Scopus, 10/01/2020)
Contributions to 3 national and 5 international projects (research/transfer of scientific results & knowledge/managment)
(Invited) talks in international conference/congress/workshop: 7 (author) - 4 (co-author)
(Invited) posters in international conference/congress/workshop: 3 (author) - 3 (co-author)

Pepijn Prinsen

Surname(s):	**Prinsen**
Name:	**Pepijn**
ORCID:	**0000-0002-5013-7174**
ScopusID:	**54585882600**
Date of birth:	**09/01/1982**
Gender:	**Male**
Nationality:	**Belgium**
Country of birth:	**Belgium**
Contact province:	**Seville**
City of birth:	**Brujas**
Contact address:	**Calle Leopoldo Alas Clarín, 151**
Postcode:	**41704**
Contact country:	**Spain**
Contact aut. region/reg.:	**Andalusia**
Contact city:	**Dos Hermanas**
Email:	**pepijnprinsen33@hotmail.com**
Mobile phone:	**(+34) 607905875**
Personal web page:	**www.linkedin.com/in/pepijnprinsen/**

Current professional situation

Employing entity: University of Cordoba **Type of entity:** University

Department: Organic Chemistry, Group of Nanoscale Chemistry & Biomass/Waste Valorisation

Professional category: Postdoctoral researcher **Educational Management (Yes/No):** Yes

City employing entity: Córdoba, Andalusia, Spain

Phone: (+34) 957211050 **Email:** q62alsor@uco.es

Start date: 01/02/2017

Type of contract: Grant-assisted student (pre or post-doctoral, others) **Dedication regime:** Full time

Primary (UNESCO code): 230305 - Carbon; 230309 - Electropositive elements; 230318 - Metals; 230326 - Structure of Inorganic compounds; 230606 - Carbohydrate chemistry; 239100 - Environmental Chemistry

Performed tasks: Research on the synthesis and characterization of heterogeneous catalysts for sustainable chemistry applications, mostly related to catalytic valorization of biomass derived compounds, using classic and novel reactor technologies. Assistance of PhD students in their research, mostly related to the catalytic valorization of hemicellulose and lignin derived compounds. International collaborations with research groups from France, Belgium and China.

Identify key words: Sustainable chemistry; Catalysis; Heterogenous; Environmental impact; Algae; Generation from biomass

Field of management activity: University

Applicability in teaching and/or research: Participation in Chemistry education program in first year Bachelor biology and first year Bachelor Electronic Engineering. Lectures, seminars and laboratory classes (55 h, certified).

Previous positions and activities

	Employing entity	Professional category	Start date
1	University of Amsterdam	Postdoctoral researcher	01/02/2014
2	E.S. Felix Gonzalez Coronado – Repsol	Sales, maintenance & logistics	20/11/2007
3	Centre of Expertise for Industrial Biotechnology and Biocatalysis (University of Ghent, Belgium)	R&D researcher	23/10/2006
4	Viensol Energías Renovables S.L.	Technical consultant	21/03/2006

1 **Employing entity:** University of Amsterdam **Type of entity:** University
Department: Dept. of Heterogeneous Catalysis and Sustainable Chemistry, Van ´T Hoff Institute for Molecular Sciences
City employing entity: Amsterdam, Noord-Holland, Holland
Professional category: Postdoctoral researcher **Educational Management (Yes/No):** No
Phone: (+31) 205256963 **Email:** g.rothenberg@uva.nl
Start-End date: 01/02/2014 - 01/02/2016 **Duration:** 2 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Primary (UNESCO code): 230402 - Cellulose; 230408 - Macromolecules; 230409 - Modification of macromolecules; 230411 - Natural fibres; 230416 - Polymer analysis
Secondary (UNESCO code): 230104 - Electrochemical analysis; 230108 - Infrared spectrosco; 230109 - Magnetic resonance spectroscopy; 230110 - Mass spectroscopy; 230115 - Polymer analysis; 230305 - Carbon; 230318 - Metals; 230320 - Nitrogen compounds; 230325 - Sodium compounds
Tertiary (UNESCO code): 230690 - Chemistry of Natural Products Organic
Performed tasks: Postdoctoral research: 1) Catalytic valorisation of lignins to key phenols and aromatics within public-private Catchbio (Catalysis for Sustainable Chemicals from Biomass) consortium (https://www.chemistryviews.org/details/ezine/1439525/CatchBio__Catalysis_for_Sustainable_Chemicals_from_Biomass.html). 2) Synthesis of (doped) carbons and application as electrocatalysts (supercapacitors and fuel cell). 3) Enzymatic lignin conversion via sulfotransferases.
Identify key words: Industrial chemistry; Biochemistry; Electrochemistry
Field of management activity: University
Applicability in teaching and/or research: Co-director of Bachelor thesis "Critical factors in the preparation of (doped) activated carbons from pomegranate peels for application in supercapacitors" (A. Ottenhof)

2 **Employing entity:** E.S. Felix Gonzalez Coronado – Repsol **Type of entity:** Business
City employing entity: La Algaba, Andalusia, Spain
Professional category: Sales, maintenance & logistics **Educational Management (Yes/No):** No
Phone: (+34) 955788001
Start-End date: 20/11/2007 - 14/08/2009 **Duration:** 1 year - 8 months - 24 days
Type of contract: Temporary employment contract
Dedication regime: Part time
Primary (UNESCO code): 530402 - Distribution
Performed tasks: Petrol station: accountancy and logistics.
Identify key words: Business administration
Field of management activity: Business management

3 **Employing entity:** Centre of Expertise for Industrial Biotechnology and Biocatalysis (University of Ghent, Belgium)
Department: Department of Biotechnology, Faculty of Bio-Engineering Sciences
City employing entity: Ghent, Belgium
Professional category: R&D researcher **Educational Management (Yes/No):** No
Phone: (0032) 92646083 **Email:** Wim.Soetaert@UGent.be
Start-End date: 23/10/2006 - 31/08/2007 **Duration:** 10 months - 7 days
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Primary (UNESCO code): 230209 - Enzymology; 230220 - Microbiological chemistry
Secondary (UNESCO code): 239100 - Environmental Chemistry
Performed tasks: Development of immobilization techniques for lactoperoxidase (dairy industry by-product) for the biocatalysed production of chlorine free activated water for the disinfection of fruits and vegetables. Up scaling to continuous process.
Identify key words: Enzymatic reactions
Field of management activity: University

4 **Employing entity:** Viensol Energías Renovables S.L.
City employing entity: Madrid, Community of Madrid, Spain
Professional category: Technical consultant **Educational Management (Yes/No):** No
Phone: (+34) 679400793
Start-End date: 21/03/2006 - 21/06/2006 **Duration:** 3 months
Type of contract: Temporary employment contract
Dedication regime: Full time
Primary (UNESCO code): 330303 - Chemical processes
Secondary (UNESCO code): 330311 - Industrial chemistry
Performed tasks: Analysis of commercially available technologies for the production of biodiesel. Analysis of raw material markets. Evaluation of techno-economic feasibility of production scenarios.
Identify key words: Industrial chemistry

Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

1 **University degree:** Higher degree
Name of qualification: Oficial Master Teaching of Secondary School Education, Vocational Training and Language Teaching
City degree awarding entity: Sevilla, Andalusia, Spain
Degree awarding entity: University of Seville **Type of entity:** University
Date of qualification: 27/07/2019
Average mark: Excellent
Standardised degree: Yes **Date of homologation:** 29/07/2019

2 **University degree:** Higher degree
Name of qualification: Master Bio-engineering Sciences: Chemistry
City degree awarding entity: Ghent, Belgium
Degree awarding entity: Ghent University **Type of entity:** University
Date of qualification: 23/09/2005
Average mark: Excellent
Standardised degree: Yes **Date of homologation:** 23/09/2015

3 **University degree:** Course, 24 hours
Name of qualification: Course Physical Methods in Inorganic Chemistry
City degree awarding entity: Leiden, Noord-Holland, Holland
Degree awarding entity: Holland Research School of Molecular Chemistry (Leiden/Amsterdam, Netherlands)
Date of qualification: 13/02/2015

4 **University degree:** Course, 20 hours
Name of qualification: European Summer School on Catalyst Preparation. Fundamental Concepts & Industrial Requirements of Catalysts
City degree awarding entity: Vogüé, Provence-Alpes-Côte d'Azur, France
Degree awarding entity: European Federation of Catalysis Societies/Centre National de la Recherche Scientifique
Date of qualification: 23/05/2014

5 **University degree:** Course, 8 hours
Name of qualification: Swagelok Fitting Course. High pressure tube fitting.
City degree awarding entity: Waddinxveen, Zuid-Holland, Holland
Degree awarding entity: Swagelok N.V. (Waddinxveen, The Netherlands) **Type of entity:** Business
Date of qualification: 18/02/2014

6 **University degree:** Higher degree
Name of qualification: Oficical Master in Advances Studies in Chemistry
City degree awarding entity: Sevilla, Andalusia, Spain
Degree awarding entity: University of Seville
Date of qualification: 27/09/2010
Average mark: Excellent
Standardised degree: Yes **Date of homologation:** 15/10/2010

7 **University degree:** Curso Superior (250 horas)
Name of qualification: Superior Course on Energy Market & Renewable Energies
City degree awarding entity: Sevilla, Andalusia, Spain
Degree awarding entity: Escuela de Organización Industrial **Type of entity:** Business
Date of qualification: 30/06/2008

Doctorates

Doctorate programme: PhD Chemistry
Degree awarding entity: University of Seville
City degree awarding entity: Seville, Andalusia, Spain
Date of degree: 15/10/2013
DEA awarding entity: University of Serville
Date DEA was awarded: 27/09/2010
European doctorate: Yes **Date of certificate:** 15/10/2019
Thesis title: Chemical composition of diverse lignocellulosic materials of industrial interesti and structuran analysis of its lignins
Thesis director: Ana Gutiérrez Suárez
Thesis co-director: José Carlos Del Río Andrade
Obtained qualification: Outstanding
Recognition of quality: Yes
Special doctorate award: Yes **Date of award:** 27/03/2013

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
German	A2	B1	A1	A1	A1
Spanish	C1	C1	C1	C1	C1
French	C1	C1	C1	C1	C1
Dutch	C2	C2	C2	C2	C2
English	C2	C2	C2	C2	C2

Teaching experience

Experience supervising doctoral thesis and/or final year projects

1 **Project title:** Mesoporous multifunctional nanomaterials SBA-15 and MCM-41 type applied to fine chemical processes
Type of project: Doctoral thesis
Co-director of thesis: Alina M. Balu; Antiono A. Romero
Entity: University of Cordoba **Type of entity:** University
City of entity: Córdoba, Andalusia, Spain
Student: M. Dolores Márquez Medina
Obtained qualification: Cum laude
Date of reading: 13/05/2019
European doctorate: Yes

2 **Project title:** Synthesis and conversion of furfural - batch versus continuous flow
Type of project: Doctoral thesis
Entity: University of Technology of Compiègne
City of entity: Compiègne, Île de France, France
Student: Yantao Wang
Obtained qualification: Cum laude
Date of reading: 22/03/2019
European doctorate: Yes

3 **Project title:** Preparation and Characterization of Organic Catalyst of Sulfamide Supported on Silica-Based Superparamagnetic Nanoparticles and Functionalized Nanocatalyst SBA-15 Mesoporous and Their Applications in Multicomponent Reactions, Alkylation and Oxidation
Type of project: Doctoral thesis
Co-director of thesis: Hamid Rezan Shaterian
Entity: University of Sistan and Baluchestan **Type of entity:** University
City of entity: Zahedan, Iran
Student: Somayeh Ostovar
Obtained qualification: Cum laude
Date of reading: 16/09/2018

4 **Project title:** Design of novel nano-photocatalytic systems for continuous photoreaction processes
Type of project: Doctoral thesis
Entity: University of Cordoba
City of entity: Córdoba, Andalusia, Spain
Student: Weiyi Ouyang
Obtained qualification: Cum laude
Date of reading: 16/05/2018
European doctorate: Yes

5 **Project title:** Critical factors in the preparation of (doped) activated carbons from pomegranate peels for application in supercapacitors
Type of project: Minor thesis
Co-director of thesis: Shiju N.R. (Shiju Naveendran)

Entity: University of Amsterdam
City of entity: Amsterdam, Noord-Holland, Holland
Student: Arco Ottenhof
Obtained qualification: Excellent
Date of reading: 26/06/2015

Student tutorials

1 **Name of the programme:** Educational aid
Entity: University of Cundinamarca **Type of entity:** University
City of entity: Girardot, Colombia
Frequency of the activity: 1
Number of tutored students: 15

2 **Name of the programme:** Mobility programme
Entity: University of Córdoba **Type of entity:** University
City of entity: Córdoba, Andalusia, Spain
Frequency of the activity: 2
Number of tutored students: 2

Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

1 **Name of the project:** Development of Continuous Flow Processes for Chemo-Enzymatic Biomass Valorization
Type of project: Research and development, including transfer **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: University of Córdoba **Type of entity:** University
City of entity: Córdoba, Andalusia, Spain
Name principal investigator (PI, Co-PI....): Rafael Luque
Nº of researchers: 1
Funding entity or bodies:
Ministry of Science, Innovation, and Universities **Type of entity:** State agency
City funding entity: Spain

Type of participation: Team member
Start-End date: 2016 - 2019 **Duration:** 3 years
Dedication regime: Part time
Applicant's contribution: I have actively contributed to the national project "Development of Continuous Flow Processes for Chemo-Enzymatic Biomass Valorization" (CTQ2016-78289-P) through research and supervision of 4 PhD students in their research, combined with international stays in other research groups.

2 **Name of the project:** Valorisation of Lignocellulosic Biomass Side Streams for Sustainable Production of Chemicals, Materials & Fuels using Low Environmental Impact Technologies (COST Action FP1306)

Type of project: Research and development, including transfer
Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: University of Córdoba
Type of entity: University

City of entity: Córdoba, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Konstantinos Triantafyllidis; Rafael Luque

Nº of researchers: 2

Funding entity or bodies:

European Cooperation in Science and Technology
Type of entity: Foundation

Type of participation: Team member

Start-End date: 2014 - 2018
Duration: 4 years

Dedication regime: Part time

Applicant's contribution: I have actively contributed to the European project "Valorisation of Lignocellulosic Biomass Side Streams for Sustainable Production of Chemicals, Materials & Fuels using Low Environmental Impact Technologies" (COST Action FP1306), through research and supervision of 2 PhD students in their research, combined with international stays in other research groups.

3 **Name of the project:** Catalysis for Sustainable Chemicals from Biomass (CatchBio)

Type of project: Research and development, including transfer
Geographical area: European Union

Degree of contribution: Scientific coordinator

Entity where project took place: Department of Heterogeneous Catalysis and Sustainable Chemistry (University of Amsterdam)

City of entity: Amsterdam, Noord-Holland, Holland

Nº of researchers: 1

Type of participation: Principal investigator

Name of the programme: Catalytic Valorisation of Lignin to Key Phenols and Aromatics

Start-End date: 2014 - 2016
Duration: 2 years

Total amount: 200.000 €
Sub-project amount: 200.000 €

Relevant results: Publications, Scientific Reports, (Invited) Talks and Poster Presentations

Dedication regime: Full time

Applicant's contribution: I have coordinated, in collaboration with Prof. G. Rothenberg, the research activities as assigned by the work group task description of the Catchbio project, third phase:lignin.

4 **Name of the project:** Optimized Pre-treatment of Fast Growing Woody and Nonwoody Brazilian Crops by Detailed Characterization of Chemical Changes produced in the Lignin-Carbohydrate Matrix

Identify key words: Chemistry

Identify key words: Chemistry

Degree of contribution: Researcher

Entity where project took place: Institute for Natural Resources & Agrobiology (Superior Council for Scientific Investigations)
Type of entity: Public Research Body

City of entity: Sevilla, Andalusia, Spain

Name principal investigator (PI, Co-PI....): José Carlos del Río Andrade

Nº of researchers: 1

Funding entity or bodies:

EU

Start-End date: 2010 - 2012

Total amount: 448.500 € **Sub-project amount:** 448.500 €
Dedication regime: Full time
Applicant's contribution: PhD Thesis, project meetings, international congresses, conferences, etc., international stay at other research groups (3 months).

5 **Name of the project:** Utilization of Agriculture and Forest Crops for the Production of Paper and Pulp: Enzymatic Treatments for the Elimination of Lipids and Lignin from the Pulp
Identify key words: Analytic chemistry
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Entity where project took place: Institute for Natural Resources & Agrobiology (Superior Council for Scientific Investigations) **Type of entity:** Public Research Body
City of entity: Sevilla, Andalusia, Spain
Name principal investigator (PI, Co-PI....): Ana Gutiérrez Suárez
Nº of researchers: 1
Funding entity or bodies:
MICINN

Start-End date: 2009 - 2011 **Duration:** 2 years
Total amount: 166.980 € **Sub-project amount:** 166.980 €
Dedication regime: Full time
Applicant's contribution: PhD Thesis (FPI Grant), project meetings, international congresses, conferences, etc.

R&D non-competitive contracts, agreements or projects with public or private entities

Name of the project: Immobilisation of lactoperoxidase
Type of project: Industrial research **Geographical area:** National
Degree of contribution: Scientific coordinator
Entity where project took place: Centre for Industrial Biotechnology and Biocatalysis (Ghent University) **Type of entity:** University Research Institute
City of entity: Ghent, Belgium
Name principal investigator (PI, Co-PI....): Wim Soetaert
Nº of researchers: 1 **Nª people/year:** 1
Participating entity/entities: Belgomilk (Belgium); Centro of Expertise for Industrial Biotechnology and Biocatalysis (University of Ghent, Belgium); REO Veiling (Belgium)
Funding entity or bodies:
Belgomilk, Reo Veiling, Ghent University

Type of project: Coordination
Start date: 01/11/2007 **Duration:** 10 months
Total amount: 60.000 €

Scientific and technological activities

Scientific production

H index: 16
Date of application: 10/01/2019

Publications, scientific and technical documents

1 Yantao Wang; Pepijn Prinsen; Floriane Mangin; Alfonso Yepez; Antonio Pineda; Enríque Rodríguez-Castellón; Muhammad Rehan Hasan Shah Gilani; Guobao Xu; Christophe Len; Rafael Luque. Mechanistic insights into the microwave-assisted cinnamyl alcohol oxidation using supported iron and palladium catalysts. Molecular Catalysis. 474, Elsevier, 09/2019. Available on-line at: <https://www.sciencedirect.com/science/article/pii/S2468823119302317>. ISSN 2468-8231

DOI: 10.1016/j.mcat.2019.110409
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Impact source: ISI
Category: Catalysis
Impact index in year of publication: 2,938
Journal in the top 25%: No
Source of citations: WOS
Citations: 1
Relevant publication: Yes

2 Bingjie Wang; Zhishan Bai; Pepijn Prinsen; Haoran Jiang; Rafael Luque; Shuangliang Zhao; Jin Xuan. Selective heavy metal removal and water purification by microfluidically-generated chitosan microspheres: Characteristics, modeling and application. Journal of Hazardous Materials. 364, pp. 192 - 205. Elsevier Science B.V., 15/02/2019. Available on-line at: <https://www.sciencedirect.com/science/article/abs/pii/S0304389418309312?via%3Dihub>. ISSN 0304-3894

DOI: 10.1016/j.jhazmat.2018.10.024
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Impact source: ISI
Category: Environmental Engineering
Impact index in year of publication: 7,650
Journal in the top 25%: Yes
Source of citations: WOS
Citations: 8
Relevant publication: Yes

3 Alfonso Yepez; Pepijn Prinsen; Antonio Pineda; Alina M. Balu; Angel García; Frank L. Y. Lam; Rafael Luque. A comprehensive study on the continuous flow synthesis of supported iron oxide nanoparticles on porous silicates and their catalytic applications. Reaction Chemistry & Engineering. 3 - 5, pp. 757 - 768. Royal Society of Chemistry, 01/10/2018. Available on-line at: <https://pubs.rsc.org/en/content/articlelanding/2018/re/c8re00063h/unauth#!divAbstract>. ISSN 2058-9883

DOI: 10.1039/c8re00063h
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 3,935
Journal in the top 25%: Yes
Position of publication: 25
No. of journals in the cat.: 138
Source of citations: WOS
Citations: 3
Relevant publication: Yes

4 Yantao Wang; Pepijn Prinsen; Konstantinos S. Triantafyllidis; Stamatia A. Karakoulia; Alfonso Yepez; Christophe Len; Rafael Luque. Batch versus Continuous Flow Performance of Supported Mono- and Bimetallic Nickel Catalysts for Catalytic Transfer Hydrogenation of Furfural in Isopropanol. ChemCatChem. 10 - 16, pp. 3459 - 3468. Wiley-VCH Verlag Gmbh, 21/08/2018. Available on-line at: <https://onlinelibrary.wiley.com/doi/abs/10.1002/cctc.201800530>. ISSN 1867-3880
DOI: 10.1002/cctc.201800530
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Impact source: ISI
Category: Catalysis
Impact index in year of publication: 4,495
Journal in the top 25%: Yes
Source of citations: WOS
Citations: 5
Relevant publication: Yes

5 Yantao Wang; Pepijn Prinsen; Konstantinos S. Triantafyllidis; Stamatia A. Karakoulia; Pantelis N. Trikalitis; Alfonso Yepez; Christophe Len; Rafael Luque. Comparative Study of Supported Monometallic Catalysts in the Liquid-Phase Hydrogenation of Furfural. ACS Sustainable Chemistry & Engineering. 6 - 8, pp. 9831 - 9844. American Chemical Society, 01/08/2018. Available on-line at: <https://pubs.acs.org/doi/10.1021/acssuschemeng.8b00984>. ISSN 2168-0485
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Impact source: ISI
Category: Green & Sustainable Science & Technology
Impact index in year of publication: 6,97
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 35
Source of citations: WOS
Citations: 8
Relevant publication: Yes

6 Pepijn Prinsen; Rafael Luque; Camino Gonzalez-Arellano. Zeolite catalyzed palmitic acid esterification. Microporous and Mesoporous Materials. 262, pp. 133 - 139. Elsevier Science B.V., 15/05/2018. Available on-line at: <https://www.sciencedirect.com/science/article/abs/pii/S1387181117307503>. ISSN 1387-1811
DOI: 10.1016/j.micromeso.2017.11.029
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 4,182
Journal in the top 25%: Yes
Position of publication: 63
No. of journals in the cat.: 293
Source of citations: WOS
Citations: 13
Relevant publication: Yes

7 Deyang Zhao; Pepijn Prinsen; Yantao Wang; Weiyi Ouyang; Frederic Delbecq; Christophe Len; Rafael Luque. Continuous Flow Alcoholysis of Furfuryl Alcohol to Alkyl Levulinates Using Zeolites. ACS Sustainable Chemistry & Engineering. 6 - 5, pp. 6901 - 6909. American Chemical Society, 01/05/2018. Available on-line at: <https://pubs.acs.org/doi/10.1021/acssuschemeng.8b00726>. ISSN 2168-0485

DOI: 10.1021/acssuschemeng.8b00726

Type of production: Scientific paper **Format:** Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Impact source: ISI **Category:** Green & Sustainable Science & Technology

Impact index in year of publication: 6,97 **Journal in the top 25%:** Yes

Position of publication: 5 **No. of journals in the cat.:** 35

Source of citations: WOS **Citations:** 10

Relevant publication: Yes

8 Somayeh Ostovar; Pepijn Prinsen; Alfonso Yepez; Hamid R. Shaterian; Rafael Luque. Catalytic Versatility of Novel Sulfonamide Functionalized Magnetic Composites. ACS Sustainable Chemistry & Engineering. pp. 4586 - 4593. American Chemical Society, 01/04/2018. Available on-line at: <https://pubs.acs.org/doi/abs/10.1021/acssuschemeng.7b03251>. ISSN 2168-0485

DOI: 10.1021/acssuschemeng.7b03251

Type of production: Scientific paper **Format:** Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Impact source: ISI **Category:** Green & Sustainable Science & Technology

Impact index in year of publication: 6,97 **Journal in the top 25%:** Yes

Position of publication: 5 **No. of journals in the cat.:** 35

Source of citations: WOS **Citations:** 3

Relevant publication: Yes

9 Dolores Marquez-Medina; Pepijn Prinsen; Hangkong Li; Kaimin Shih; Antonio A. Romero; Rafael Luque. Continuous-Flow Synthesis of Supported Magnetic Iron Oxide Nanoparticles for Efficient Isoeugenol Conversion into Vanillin. ChemSusChem. 11 - 2, pp. 389 - 396. Wiley-VCH Verlag Gmbh, 23/01/2018. Available on-line at: <https://onlinelibrary.wiley.com/doi/abs/10.1002/cssc.201701884>. ISSN 1864-5631

DOI: 10.1002/cssc.201701884

Type of production: Scientific paper **Format:** Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Impact source: SCOPUS **Category:** Green & Sustainable Science & Technology

Impact index in year of publication: 7,804 **Journal in the top 25%:** Yes

Position of publication: 3 **No. of journals in the cat.:** 35

Source of citations: WOS **Citations:** 11

Relevant publication: Yes

10 Huilin XIe; Hangbo Yue; Wenbin Hu; Zhou Xinhua; Pepijn Prinsen; Rafael Luque. A chitosan modified Pt/SiO2 catalyst for the synthesis of 3-poly(ethylene glycol) propyl ether-heptamethyltrisiloxane applied as agricultural synergistic agent. Catalysis Communications. 104, pp. 118 - 122. Elsevier Science B.V., 10/01/2018. Available on-line at: <https://www.sciencedirect.com/science/article/pii/S1566736717304077#!>. ISSN 1873-3905

DOI: 10.1016/j.catcom.2017.09.025

Type of production: Scientific paper **Format:** Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No

Impact source: ISI
Category: Science Edition - CHEMISTRY, PHYSICAL
Impact index in year of publication: 3,674
Journal in the top 25%: No
Position of publication: 54
No. of journals in the cat.: 148

Source of citations: WOS
Citations: 4

Relevant publication: Yes

11 Floriane Mangin; Pepijn Prinsen; Alfonso Yepez; Muhammad R. H. S. Gilani; Xu Guobao; Christophe Len; Rafael Luque. Microwave assisted benzyl alcohol oxidation using iron particles on furfuryl alcohol derived supports. Catalysis Communications. 104, pp. 67 - 70. Elsevier Science B.V., 10/01/2018. Available on-line at: <https://www.sciencedirect.com/science/article/pii/S1566736717304144>. ISSN 1873-3905

DOI: 10.1016/j.catcom.2017.10.003
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No

Impact source: ISI
Category: Science Edition - CHEMISTRY, PHYSICAL
Impact index in year of publication: 3,674
Journal in the top 25%: No
Position of publication: 54
No. of journals in the cat.: 148

Source of citations: WOS
Citations: 5

Relevant publication: Yes

12 Antonio J. García-Olmo; Alfonso Yepez; Pepijn Prinsen; Araceli García; Audrey Mazière; Christophe Len; Rafael Luque. Activity of continuous flow synthesized Pd-based nanocatalysts in the flow hydroconversion of furfural.Tetrahedron. 73 - 38, pp. 73 - 78. Pergamon-Elsevier Science Ltd., 21/09/2017. Available on-line at: <https://www.sciencedirect.com/science/article/abs/pii/S0040402017302041>. ISSN 0040-4020

DOI: 10.1016/j.tet.2017.02.056
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No

Impact source: ISI
Category: Science Edition - CHEMISTRY, ORGANIC
Impact index in year of publication: 2,377
Journal in the top 25%: No
Position of publication: 23
No. of journals in the cat.: 57

Source of citations: WOS
Citations: 16

Relevant publication: Yes

13 Radja V. Jayaram; Rafael Luque; Pepijn Prinsen; Sandip R. Kale; Anand S. Burange; Sandeep S. Kahandal. An efficient route to 1,8-dioxo-octahydroxanthenes and -decahydroacridines using a sulfated zirconia catalyst. Catalysis Communications. 97, pp. 138 - 145. Elsevier B.V., 05/07/2017.

Type of production: Scientific paper
Format: Journal
Corresponding author: No

Impact source: ISI
Category: Science Edition - CHEMISTRY, PHYSICAL
Impact index in year of publication: 3,463
Journal in the top 25%: No
Position of publication: 56
No. of journals in the cat.: 147

Source of citations: WOS
Citations: 19

Relevant publication: Yes

14 Wenbin Hu; Huilin Xie; Hangbo Yue; Pepijn Prinsen; Rafael Luque. Super-microporous silica-supported platinum catalyst for highly regioselective hydrosilylation. Catalysis Communications. 97, pp. 51 - 55. Elsevier Science B.V., 05/07/2017. Available on-line at: <https://www.sciencedirect.com/science/article/pii/S1566736717301383>. ISSN 1873-3905

DOI: 10.1016/j.catcom.2017.04.015

Type of production: Scientific paper **Format:** Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Impact source: ISI **Category:** Science Edition - CHEMISTRY, PHYSICAL

Impact index in year of publication: 3,463 **Journal in the top 25%:** No

Position of publication: 56 **No. of journals in the cat.:** 147

Source of citations: WOS **Citations:** 10

Relevant publication: Yes

15 Audrey Mazière; Pepijn Prinsen; Araceli García; Rafael Luque; Christophe Len. A review of progress in (bio)catalytic routes from/to renewable succinic acid. Biofuels, Bioproducts and Biorefining. 11 - 5, pp. 908 - 931. John Wiley & Sons Ltd., 14/06/2017. Available on-line at: <https://onlinelibrary.wiley.com/doi/abs/10.1002/bbb.1785>. ISSN 1932-1031

DOI: 10.1002/bbb.1785

Type of production: Scientific paper **Format:** Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Impact source: ISI **Category:** Science Edition - ENERGY & FUELS

Impact index in year of publication: 3,376 **Journal in the top 25%:** No

Position of publication: 35 **No. of journals in the cat.:** 97

Source of citations: WOS **Citations:** 19

Relevant publication: Yes

16 Pepijn Prinsen; Anand Narani; Gadi Rothenberg. Dissolving Lignin in Water through Enzymatic Sulfation with Aryl Sulfotransferase. ChemSusChem. 10 - 10, pp. 2267 - 2273. Wiley-VCH Verlag Gmbh, 22/05/2017. Available on-line at: <https://onlinelibrary.wiley.com/doi/abs/10.1002/cssc.201700376>. ISSN 1864-5631

DOI: 10.1002/cssc.201700376

Type of production: Scientific paper **Format:** Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

Impact source: ISI **Category:** Green & Sustainable Science & Technology

Impact index in year of publication: 7,411 **Journal in the top 25%:** Yes

Position of publication: 3 **No. of journals in the cat.:** 33

Source of citations: WOS **Citations:** 4

Relevant publication: Yes

17 Muhammad I. Khan; Rafael Luque; Pepijn Prinsen; Aziz U. Rehman; Saima Anjum; Muhammad Nawaz; Ageela Shaheen; Shagufta Zafar; Mujahid Mustageem. BPPO-Based Anion Exchange Membranes for Acid Recovery via Diffusion Dialysis.Materials (Basel). 10 - 3, 07/03/2017. Available on-line at: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5503315/>. ISSN 1996-1944

DOI: 10.3390/ma10030266

Type of production: Scientific paper **Format:** Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Impact source: ISI
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 2,467
Journal in the top 25%: No
Position of publication: 111
No. of journals in the cat.: 285
Source of citations: WOS
Citations: 4
Relevant publication: Yes

18 Pepijn Prinsen; Anand Narani; Gadi Rothenberg. Lignin depolymerization and lignocellulose fractionation by solvated electrons in liquid ammonia. ChemSusChem. 10, pp. 1022 - 1032. John Wiley & Sons Ltd., 31/01/2017. Available on-line at: <https://onlinelibrary.wiley.com/doi/abs/10.1002/cssc.201601608>. ISSN 1864-5631
DOI: 10.1002/cssc.201601608
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Impact source: ISI
Category: Green and Sustainable Science & Technology
Impact index in year of publication: 7,411
Journal in the top 25%: Yes
Position of publication: 3
No. of journals in the cat.: 33
Source of citations: WOS
Citations: 5
Relevant publication: Yes

19 Quratulain Nadeem; Tasneem Fatima; Pepijn Prinsen; Aziz ur Rehman; Rohama Gill; Rashid Mahmood; Rafael Luque. Electro-conductive composites from polystyrenes using block copolymers and Cu-alumina filler,. Materials. 9, pp. 989 - 1006. MDPI, 07/12/2016. Available on-line at: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5456950/>. ISSN 1996-1944
DOI: 10.3390/ma9120989
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Impact source: ISI
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 2,654
Journal in the top 25%: No
Position of publication: 82
No. of journals in the cat.: 275
Source of citations: WOS
Citations: 1
Relevant publication: Yes

20 David Eisenberg; Pepijn Prinsen; Norbert J. Geels; Wowa Stroek; Ning Yan; Bin Hua; Jing-Li Luo; Gadi Rothenberg. The evolution of hierarchical porosity in selftemplated nitrogen-doped carbons and its effect on oxygen reduction electrocatalysis†. RSC Advances. 6 - 84, pp. 80398 - 80407. Royal Society of Chemistry, 24/07/2016. Available on-line at: <https://pubs.rsc.org/en/content/articlelanding/2016/ra/c6ra16606g#!divAbstract>. ISSN 2046-2069
DOI: 10.1039/C6RA16606G
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal without external admissions assessment committee
Corresponding author: No
Impact source: ISI
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Impact index in year of publication: 3,108
Journal in the top 25%: No

Position of publication: 59
No. of journals in the cat.: 166
Source of citations: WOS
Citations: 14
Relevant publication: Yes

21 José C. del Río; Pepijn Prinsen; Edith M. Cadena; Angel T. Martínez; Ana Gutiérrez; Jorge Rencoret. Lignin-carbohydrate complexes from sisal (Agave sisalana) and abaca (Musa textilis): chemical composition and structural modifications during the isolation process. Planta. 243, pp. 1143 - 1158. Springer-Verlag, 14/01/2016. Available on-line at: <https://link.springer.com/article/10.1007/s00425-016-2470-1>. ISSN 1432-2048
DOI: 10.1007/s00425-016-2470-1
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Impact source: ISI
Category: Science Edition - PLANT SCIENCES
Impact index in year of publication: 3,361
Journal in the top 25%: Yes
Position of publication: 30
No. of journals in the cat.: 212
Source of citations: WOS
Citations: 13
Relevant publication: Yes

22 Jorge Rencoret; Pepijn Prinsen; Ana Gutiérrez; Angel T. Martínez; José C. del Río. Isolation and Structural Characterization of the Milled Wood Lignin, Dioxane Lignin, and Cellulolytic Lignin Preparations from Brewer's Spent Grain. Journal of Agricultural and Food Chemistry. 63 - 2, pp. 603 - 613. American Chemical Society Publications, 18/12/2014. Available on-line at: <https://pubs.acs.org/doi/abs/10.1021/jf505808c>. ISSN 0021-8561
DOI: 10.1021/jf505808c
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Impact source: ISI
Category: Science Edition - CHEMISTRY, APPLIED
Impact index in year of publication: 2,857
Journal in the top 25%: Yes
Position of publication: 14
No. of journals in the cat.: 72
Source of citations: WOS
Citations: 52
Relevant publication: Yes

23 Zea Strassberger; Pepijn Prinsen; Frits van der Klis; Daan S. van Es; Stefania Tanase; Gadi Rothenberg. Lignin solubilisation and gentle fractionation in liquid ammonia. Green Chemistry. 17 - 1, pp. 325 - 334. Royal Society of Chemistry, 09/09/2014. Available on-line at: <https://pubs.rsc.org/en/content/articlelanding/2015/gc/c4gc01143k#!divAbstract>. ISSN 1463-9262
DOI: 10.1039/C4GC01143K
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Impact source: ISI
Category: Green & Sustainable Science & Technology
Impact index in year of publication: 8,506
Journal in the top 25%: Yes
Position of publication: 1
No. of journals in the cat.: 29
Source of citations: WOS
Citations: 43
Relevant publication: Yes

24 Marta Pérez-Boada; Alicia Prieto; Pepijn Prinsen; Marie-Pierre Forquin-Gomez; José C. del Río; Ana Gutiérrez; Angel T. Martínez; Craig B. Faulds. Enzymatic degradation of Elephant grass (Pennisetum purpureum) stems: influence of the pith and bark in the total hydrolysis. Bioresource Technology. 167, pp. 469 - 475. Elsevier, 07/06/2014. Available on-line at: <https://doi.org/10.1016/j.biortech.2014.06.018>. ISSN 0960-8524

DOI: 10.1016/j.biortech.2014.06.018

Type of production: Scientific paper **Format:** Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Impact source: SCOPUS **Category:** Science Edition - ENERGY & FUELS

Impact index in year of publication: 4,494 **Journal in the top 25%:** Yes

Position of publication: 13 **No. of journals in the cat.:** 89

Source of citations: WOS **Citations:** 9

Relevant publication: Yes

25 Pepijn Prinsen; Ana Gutiérrez; Craig B. Faulds; José C. del Río. Comprehensive Study of Valuable Lipophilic Phytochemicals in Wheat Bran. Journal of Agricultural and Food Chemistry. 62 - 7, pp. 1664 - 1673. American Chemistry Society Publications, 22/01/2014. Available on-line at: <https://doi.org/10.1021/jf404772b>. ISSN 0021-8561

DOI: 10.1021/jf404772b

Type of production: Scientific paper **Format:** Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

Impact source: ISI **Category:** Science Edition - CHEMISTRY, APPLIED

Impact index in year of publication: 2,912 **Journal in the top 25%:** Yes

Position of publication: 11 **No. of journals in the cat.:** 72

Source of citations: WOS **Citations:** 26

Relevant publication: Yes

26 Pepijn Prinsen; Jorge Rencoret; Ana Gutiérrez; Tiina Littiä; Tarja Tamminen; Jorge L. Colodette; M. Álvaro Berbis; Jesús Jiménez-Barbero; Angel T. Martínez; José C. del Río. Modification of the lignin structure during chemical deconstruction of eucalypt wood by kraft-, soda-AQ and soda-O2 cooking. Industrial & Engineering Chemistry Research. 52, pp. 15702 - 15712. American Chemical Society Publications, 13/10/2013. Available on-line at: <https://pubs.acs.org/doi/10.1021/ie401364d>. ISSN 0888-5885

DOI: 10.1021/ie401364d

Type of production: Scientific paper **Format:** Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

Impact source: ISI **Category:** Science Edition - ENGINEERING, CHEMICAL

Impact index in year of publication: 2,235 **Journal in the top 25%:** No

Position of publication: 36 **No. of journals in the cat.:** 133

Source of citations: WOS **Citations:** 35

Relevant publication: Yes

27 José C. del Río; Pepijn Prinsen; Ana Gutiérrez. Chemical composition of lipids in brewer´s spent grain: A promising source of valuable phytochemicals. Journal of Cereal Science. 58 - 2, pp. 248 - 254. Elsevier, 03/07/2013. Available on-line at: <https://www.sciencedirect.com/science/article/pii/S0733521013001173?via%3Dihub>. ISSN 0733-5210

DOI: 10.1016/j.jcs.2013.07.001

Type of production: Scientific paper
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Impact source: ISI
Category: Science Edition - FOOD SCIENCE & TECHNOLOGY
Impact index in year of publication: 1,943
Journal in the top 25%: No
Position of publication: 38
No. of journals in the cat.: 123
Source of citations: WOS
Citations: 20
Relevant publication: Yes

28 José C. del Río; Pepijn Prinsen; Ana Gutiérrez. A Comprehensive Characterization of Lipids in Wheat Straw. Journal of Agricultural and Food Chemistry. 61 - 8, pp. 1904 - 1913. American Chemical Society Publications, 04/02/2013. Available on-line at: <https://pubs.acs.org/doi/10.1021/jf304252m>. ISSN 0021-8561
DOI: 10.1021/jf304252m
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Impact source: ISI
Category: Science Edition - CHEMISTRY, APPLIED
Impact index in year of publication: 3,107
Journal in the top 25%: Yes
Position of publication: 11
No. of journals in the cat.: 71
Source of citations: WOS
Citations: 18
Relevant publication: Yes

29 Pepijn Prinsen; Ana Gutiérrez; Jorge Rencoret; Lidia Nieto; Jesús Jiménez-Barbero; Auphélia Burnet; Michel Petit-Conil; Jorge L. Colodette; Angel T. Martínez; José C. del Río. Morphological characteristics and composition of lipophilic extractives and lignin in Brazilian woods from different eucalypt hybrids. Industrial Crops and Products. 36 - 1, pp. 572 - 583. Elsevier Science B.V., 15/11/2012. Available on-line at: <https://www.sciencedirect.com/science/article/abs/pii/S0926669011004419>. ISSN 0926-6690
DOI: 10.1016/j.indcrop.2011.11.014
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - AGRICULTURAL ENGINEERING
Impact index in year of publication: 2,468
Journal in the top 25%: Yes
Position of publication: 3
No. of journals in the cat.: 12
Source of citations: WOS
Citations: 23
Relevant publication: Yes

30 Pepijn Prinsen; Ana Gutiérrez; José C. del Río. Lipophilic Extractives from the Cortex and Pith of Elephant Grass (Pennisetum purpureum Schumach.) Stems. Journal of Agricultural and Food Chemistry. 60 - 25, pp. 6408 - 6417. American Chemical Society Publications, 31/05/2012. Available on-line at: <https://pubs.acs.org/doi/10.1021/jf301753w>. ISSN 0021-8561
DOI: DOI:10.1021/jf301753w
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - CHEMISTRY, APPLIED
Impact index in year of publication: 2,906
Journal in the top 25%: Yes

Position of publication: 12 **No. of journals in the cat.:** 71

Source of citations: WOS **Citations:** 15

Relevant publication: Yes

31 José C. del Río; Jorge Rencoret; Pepijn Prinsen; Angel T. Martínez; John Ralph; Ana Gutiérrez. Structural characterization of wheat straw lignin as revealed by analytical pyrolysis. Journal of Agricultural and Food Chemistry. 60 - 23, pp. 5922 - 5935. American Chemical Society Publications, 21/05/2012. Available on-line at: <https://pubs.acs.org/doi/10.1021/jf301002n>. ISSN 0021-8561

DOI: 10.1021/jf301002n

Type of production: Scientific paper **Format:** Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Impact source: ISI **Category:** Science Edition - CHEMISTRY, APPLIED

Impact index in year of publication: 2,906 **Journal in the top 25%:** Yes

Position of publication: 12 **No. of journals in the cat.:** 71

Source of citations: WOS **Citations:** 321

Relevant publication: Yes

32 José C. del Río; Pepijn Prinsen; Jorge Rencoret; Lidia Nieto; Jesús Jiménez-Barbero; John Ralph; Angel T. Martínez; Ana Gutiérrez. Structural Characterization of the Lignin in the Cortex and Pith of Elephant Grass (Pennisetum purpureum) Stems. Journal of Agricultural and Food Chemistry. 60 - 14, pp. 3619 - 3634. American Chemical Society Publications, 14/03/2012. Available on-line at: <https://pubs.acs.org/doi/10.1021/jf300099g>. ISSN 0021-8561

DOI: 10.1021/jf300099g

Type of production: Scientific paper **Format:** Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

Impact source: ISI **Category:** Science Edition - CHEMISTRY, APPLIED

Impact index in year of publication: 2,906 **Journal in the top 25%:** Yes

Position of publication: 12 **No. of journals in the cat.:** 71

Source of citations: WOS **Citations:** 106

Relevant publication: Yes

33 Arun K. Vuppaladadiyam; Pepijn Prinsen; Noemi Merayo; Rafael Luque; Ángeles Blanco; Ming Zhao. A review on greywater reuse: quality, risks, barriers and global scenarios. Reviews in Environmental Science and Bio/Technology. 18, pp. 77 - 99. Kluwer Academic Publishers, 15/03/2019. Available on-line at: <https://link.springer.com/article/10.1007/s11157-018-9487-9#citeas>. ISSN 1569-1705

DOI: 10.1007/s11157-018-9487-9

Type of production: Scientific paper **Format:** Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Impact source: ISI **Category:** Environmental Science (miscellaneous)

Impact index in year of publication: 4,938 **Journal in the top 25%:** Yes

Source of citations: WOS **Citations:** 0

34 Benjie Wang; Pepijn Prinsen; Huizhi Wang; Zhishan Bai; Rafael Luque; Hualin Wang; Jin Xuan. Macroporous materials: microfluidic production, functionalization and application. Chemical Society Reviews. 46 - 3, pp. 855 - 914. Royal Society of Chemistry, 20/01/2017. Available on-line at: <https://pubs.rsc.org/en/content/articlelanding/2017/cs/c5cs00065c#!divAbstract>. ISSN 0306-0012
DOI: 10.1039/C5CS00065C
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Impact source: ISI
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Impact index in year of publication: 40,182
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 171
Source of citations: WOS
Citations: 39

35 Rafael Luque; Pepijn Prinsen. Introduction to Nanocatalysts. RSC Catalysis Series. pp. 1 - 36. (United Kingdom): Royal Society of Chemistry, 11/06/2019. Available on-line at: <https://pubs.rsc.org/en/content/chapter/bk9781788014908-00001/978-1-78801-490-8>. ISBN 978-1-78801-490-8
DOI: 10.1039/9781788016292-00001
Type of production: Popular science book
Format: Book
Position of signature: 1
Degree of contribution: Author or co-author of chapter in book
Total no. authors: 2
Corresponding author: No
Source of citations: WOS
Citations: 1
Relevant publication: Yes

36 Rafael Luque; Pepijn Prinsen. Nanoparticle Design and Characterization for Catalytic Applications in Sustainable Chemistry. RSC Catalysis Series. 38, pp. 1 - 346. Croydon(United Kingdom): Royal Society of Chemistry, 11/06/2019. Available on-line at: <https://pubs.rsc.org/en/content/ebook/978-1-78801-490-8>. ISSN 1757-6725, ISBN 978-1-78801-490-8
DOI: 10.1039/9781788016292-FP001
Type of production: Popular science book
Format: Book
Position of signature: 2
Degree of contribution: Editor or co-editor
Total no. authors: 2
Corresponding author: Yes
Source of citations: WOS
Citations: 1
Relevant results: Edición de libro
Relevant publication: Yes

37 Simona S. Consoletti; Pepijn Prinsen. Carbon Dioxide Biosequestration and Wastewater Treatment Using Microalgae. Environmental Sustainability and Education for Waste Management. pp. 241 - 270. Singapur(Singapore): Springer, Singapore, 26/07/2019. Available on-line at: <https://link.springer.com/chapter/10.1007/978-981-13-9173-6_14>. ISBN 978-981-13-9173-6
DOI: 10.1007/978-981-13-9173-6_14
Type of production: Popular science book
Format: Book
Position of signature: 2
Degree of contribution: Author or co-author of chapter in book
Total no. authors: 2
Corresponding author: Yes

38 Valeria Trombettoni; Daniela Lanari; Pepijn Prinsen; Rafael Luque; Marrocchi Assunta; Luigi Vaccaro. Recent advances in sulfonated resin catalysts for efficient biodiesel and bio-derived additives production. Progress in Energy & Combustion Science. 65, pp. 136 - 162. Elsevier Ltd., 01/03/2018. Available on-line at: <https://www.sciencedirect.com/science/article/pii/S0360128517300746#!>. ISSN 0360-1285

DOI: 10.1016/j.pecs.2017.11.001
Type of production: Review
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Impact source: ISI
Category: Science Edition - ENERGY & FUELS
Impact index in year of publication: 26,467
Journal in the top 25%: Yes
Position of publication: 3
No. of journals in the cat.: 103
Source of citations: WOS
Citations: 18
Relevant publication: Yes

39 Arun K. Vuppaladadiyam; Pepijn Prinsen; Abdul Raheem; Rafael Luque; Ming Zhao. Sustainability Analysis of Microalgae Production Systems: A Review on Resource with Unexploited High-Value Reserves. Environmental Science & Technology. 52 - 24, pp. 14031 - 14049. American Chemical Society, 18/12/2018. Available on-line at: <https://pubs.acs.org/doi/abs/10.1021/acs.est.8b02876>. ISSN 1520-5851
DOI: 10.1021/acs.est.8b02876
Type of production: Bibliographic review
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Impact source: ISI
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 7,149
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 52
Source of citations: WOS
Citations: 2
Relevant publication: Yes

40 Abdul Raheem; Pepijn Prinsen; Arun K. Vuppaladadiyam; Ming Zhao; Rafael Luque. A review on sustainable microalgae based biofuel and bioenergy production: Recent developments. Journal of Cleaner Production. 181, pp. 42 - 59. Elsevier B.V., 20/04/2018. Available on-line at: <https://www.sciencedirect.com/science/article/pii/S0959652618301471#!>. ISSN 0959-6526
DOI: 10.1016/j.jclepro.2018.01.125
Type of production: Bibliographic review
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Impact source: ISI
Category: Green & Sustainable Science & Technology
Impact index in year of publication: 6,395
Journal in the top 25%: Yes
Position of publication: 6
No. of journals in the cat.: 35
Source of citations: WOS
Citations: 50
Relevant publication: Yes

41 Arun K. Vuppaladadiyam; Pepijn Prinsen; Abdul Raheem; Rafael Luque; Ming Zhao. Microalgae cultivation and metabolites production: a comprehensive review. Biofuels Bioproducts & Biorefining. 12 - 2, pp. 304 - 324. John Wiley & Sons Ltd., 01/03/2018. Available on-line at: <https://onlinelibrary.wiley.com/doi/abs/10.1002/bbb.1864>. ISSN 1932-1031
DOI: 10.1002/bbb.1864
Type of production: Bibliographic review
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Impact source: SCOPUS
Category: Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

Impact index in year of publication: 4,224
Position of publication: 31
Source of citations: WOS
Relevant publication: Yes
Journal in the top 25%: Yes
No. of journals in the cat.: 162
Citations: 4

Works submitted to national or international conferences

1 **Title of the work:** Sustainability analysis of microalgae based production systems
Name of the conference: Cycle of Conferences - Internationalization of Curriculum of Environmental Engineering Program
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - invited/keynote talk
Reasons for participation: Upon invitation
Corresponding author: Yes
City of event: Girardot, Colombia
Date of event: 11/10/2019
End date: 11/10/2019
Organising entity: University of Cundinamarca
Type of entity: University
City organizing entity: Girardot, Colombia
With external admission assessment committee: No
Pepijn Prinsen.

2 **Title of the work:** Liquid phase furfural hydrogenation using monometallic and bimetallic catalysts supported on carbon: batch vs. continuous flow
Name of the conference: Materials, Characterization, and Catalysis Workshop (MC-2)
Type of event: Seminar
Geographical area: European Union
Type of participation: Participatory - oral communication
Reasons for participation: Review before acceptance
Corresponding author: Yes
City of event: Zurich, Switzerland
Date of event: 15/01/2018
End date: 17/01/2018
Organising entity: ETH Zurich
Type of entity: University
City organizing entity: Zurich, Switzerland
With external admission assessment committee: Yes
Type of contribution: Scientific book or monograph
Pepijn Prinsen; Yantao Wang; Konstantinos Triantafyllidis; Stylianos D. Karakoulia; Alfonso Yepez; Christophe Len; Rafael Luque. 16/01/2018. Available on-line at: <http://mc2ateth.com/>.

3 **Title of the work:** Techno-economic assessment of renewable diesel production from lignocellulose vs. microalgae
Name of the conference: Working Group 4 meeting: Life cycle analysis & techno-economical assessment - COST Action FP1306
Type of event: Workgroup meeting
Corresponding author: Yes
City of event: Luleå, Övre Norrland, Sweden
Date of event: 26/04/2017
End date: 26/04/2017
Organising entity: Luleå University of Technology
Type of entity: University
City organizing entity: Luleå, Övre Norrland, Sweden

Type of contribution: Scientific-technical report
Luque Rafael; Prinsen Pepijn. Available on-line at: <http://www.fp1306.com/images/Meeting-Events/3rd-gp/WG4-meeting-Lulea/Meeting-Programme_Lulea.pdf>.

4 **Title of the work:** Isolation and Chemical Characterization of Lignin from Brewer's Spent Grain
Name of the conference: 18th International Symposium on Wood, Fiber and Pulping Chemistry (ISWFPC)
Type of event: Symposium
Geographical area: European Union
Type of participation: Participatory - oral communication
Reasons for participation: Review before acceptance
City of event: Vienna, Austria
Date of event: 09/09/2016
End date: 11/09/2016
Organising entity: Universität für Bodenkultur Wien
City organizing entity: Vienna, Austria
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific book or monograph
En: Proceedings of the 18th International Symposium on Wood, Fibre and Pulping Chemistry. pp. 341 - 344. Universität für Bodenkultur, 11/09/2015. Available on-line at: <http://hdl.handle.net/10261/132177>. ISBN 978-3-900932-24-4

5 **Title of the work:** Isolation and Chemical Composition of Lignin-Carbohydrate Complexes from Non-Woody Plants
Name of the conference: Proceedings of the 18th International Symposium on Wood, Fibre and Pulping Chemistry
Type of event: Symposium
Geographical area: European Union
Type of participation: Participatory - oral communication
Reasons for participation: Review before acceptance
Corresponding author: No
City of event: Vienna, Austria
Date of event: 09/09/2015
End date: 11/09/2015
Organising entity: Universität für Bodenkultur Wien
Type of entity: University
City organizing entity: Vienna, Austria
Publication in conference proceedings: Yes
Type of contribution: Scientific book or monograph
José Carlos del Río; Jorge Rencoret; Pepijn Prinsen; Edith Cadena; Ángel T. Martínez; Ana Gutiérrez. En: Proceedings of the 18th International Symposium on Wood, Fibre and Pulping Chemistry. pp. 26 - 28. Universität für Bodenkultur, 11/09/2015. Available on-line at: <http://hdl.handle.net/10261/132191>. ISBN 978-3-900932-24-4

6 **Title of the work:** Lignin depolymerisation in liquid ammonia: challenges and benefits
Name of the conference: The 1st International Workshop on Biorefinery of Lignocellulosic Materials (IWBLCM 2015)
Type of event: Seminar
Geographical area: European Union
Type of participation: Participatory - oral communication
Reasons for participation: Review before acceptance
Corresponding author: Yes
City of event: Cordoba, Andalusia, Spain
Date of event: 09/06/2015
End date: 12/06/2015
Organising entity: Universidad de Córdoba
Type of entity: University

City organizing entity: Cordoba, Andalusia, Spain
Publication in conference proceedings: Yes
Type of contribution: Scientific book or monograph
Pepijn Prinsen; Frits van der Klis; Daan S. van Es; Stefania Tanase; Rothenberg Gadi. En: Cellulose Chem. Technol.. 50 - 3-4, pp. 353 - 354. Andalusia (Spain): 03/2015. Available on-line at: <https://iwblcm2019.wordpress.com/>.

7 **Title of the work:** Lignin depolymerisation in liquid ammonia: challenges and benefits
Name of the conference: NCCC - The 16th Netherlands' Catalysis and Chemistry Conference
Type of event: Conference
Corresponding author: Yes
City of event: Noorderwijkhout, Noord-Holland, Holland
Date of event: 10/03/2015
End date: 12/03/2015
Organising entity: Associaton of Industrial Advisory Council Members of NIOK **Type of entity:** Business
City organizing entity: Noorderwijkhout, Holland
Type of contribution: Scientific book or monograph
Pepijn Prinsen; Frits van der Klis; Daan S. van Es; Stefania Tanase; Gadi Rothenberg. Available on-line at: <https://n3c.nl/>.

8 **Title of the work:** Depolymerizing lignin in liquid ammonia: challenges and benefits
Name of the conference: CatchBio - Progress Meeting - Third phase: bulk chemistry – lignin
Type of event: Group Meeting **Geographical area:** National
Type of participation: Participatory - oral communication **Reasons for participation:** Representing
Corresponding author: Yes
City of event: Maastricht, Limburg (NL), Holland
Date of event: 20/01/2015
End date: 20/01/2015
Organising entity: Catchbio Consortium **Type of entity:** Associations and Groups
City organizing entity: Holland
Type of contribution: Scientific-technical report
Prinsen Pepijn; Van der Klis Frits; Van Es Daan; Rothenberg Gadi. (Holland): 20/01/2015. Available on-line at: <https://www.dutchbiorefinerycluster.nl/themas/chemische-bouwstenen-uit-planten/catchbio>.

9 **Title of the work:** Lignin solubilization in liquid ammonia: barriers towards efficient depolymerisation
Name of the conference: CatchBio - User committee meeting - Third phase: lignin
Type of event: User Committee Meeting **Geographical area:** National
Reasons for participation: Representing
Corresponding author: Yes
City of event: Lunteren, Gelderland, Holland
Date of event: 09/10/2014
End date: 10/10/2014
Organising entity: Catchbio Consortium
City organizing entity: Holland
With external admission assessment committee: No
Type of contribution: Scientific-technical report
Prinsen Pepijn; Van der Klis Frits; Van Es Daan; Rothenberg Gadi. (Holland): 10/10/2014. Available on-line at: <https://www.dutchbiorefinerycluster.nl/themas/chemische-bouwstenen-uit-planten/catchbio>.

10 **Title of the work:** Chemical composition of lipophilic compounds from wheat straw
Name of the conference: 13th European Workshop on Lignocellulosics and Pulp (EWLP)
Type of event: Workshop
Geographical area: European Union
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
Corresponding author: Yes
City of event: Sevilla, Andalusia, Spain
Date of event: 24/06/2014
End date: 27/06/2014
Organising entity: Instituto de Recursos Naturales y Agrobiología de Sevilla
Type of entity: State agency
City organizing entity: Sevilla, Andalusia, Spain
Publication in conference proceedings: Yes
Type of contribution: Scientific book or monograph
Pepijn Prinsen; Ana Gutiérrez; José C. del Río. En: Proceedings of the 13th European Workshop on Lignocellulosics and Pulp. pp. 679 - 682. (Spain): CSIC - Instituto de Recursos Naturales y Agrobiología de Sevilla (IRNAS), 24/06/2014. Available on-line at: <http://hdl.handle.net/10261/98714>. ISBN 978-84-616-9842-4

11 **Title of the work:** Isolation and structural characterization of lignin-carbohydrate complexes from sisal and abaca fibers
Name of the conference: 13th European Workshop on Lignocellulosics and Pulp
Type of event: Workshop
Geographical area: European Union
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
Corresponding author: No
City of event: Sevilla, Andalusia, Spain
Date of event: 24/06/2014
End date: 27/06/2014
Organising entity: CSIC - Instituto de Recursos Naturales y Agrobiología de Sevilla (IRNAS)
City organizing entity: Sevilla, Spain
With external admission assessment committee: Yes
Type of contribution: Scientific book or monograph
José Carlos del Río; Jorge Rencoret; Pepijn Prinsen; Edith Cadena; Ángel T. Martínez; Ana Gutiérrez. En: Proceedings of the 13th European Workshop on Lignocellulosics and Pulp. pp. 315 - 318. (Spain): CSIC - Instituto de Recursos Naturales y Agrobiología de Sevilla (IRNAS), 24/06/2014. Available on-line at: <http://hdl.handle.net/10261/98692>. ISBN 978-84-616-9842-4

12 **Title of the work:** Structural characterization of lignin from brewer´s spent grain
Name of the conference: 13th European Workshop on Lignocellulosics and Pulp (EWLP)
Type of event: Workshop
Geographical area: European Union
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
Corresponding author: No
City of event: Sevilla, Andalusia, Spain
Date of event: 24/06/2014
End date: 27/06/2014
Organising entity: Instituto de Recursos Naturales y Agrobiología de Sevilla
Type of entity: State agency
City organizing entity: Sevilla, Andalusia, Spain
Publication in conference proceedings: Yes
With external admission assessment committee: Yes

Type of contribution: Scientific book or monograph

Jorge Rencoret; Pepijn Prinsen; Ana Gutiérrez; Angel T. Martínez; José C. del Río. En: Proceedings of the 13th European Workshop on Lignocellulosics and Pulp. pp. 707 - 710. (Spain): CSIC - Instituto de Recursos Naturales y Agrobiología de Sevilla (IRNAS), 24/06/2014. Available on-line at: <http://hdl.handle.net/10261/98719>. ISBN 978-84-616-9842-4

13 **Title of the work:** Structural characterization of wheat straw lignin. Evidence for a novel monomer in grasses

Name of the conference: The 17th International Symposium on Wood, Fibre and Pulping Chemistry (ISWFPC)

Type of event: Symposium

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Reasons for participation: Upon invitation

Corresponding author: No

City of event: Vancouver, Canada

Date of event: 12/06/2013

End date: 14/06/2013

Organising entity: Pulp and Paper Technical Association of Canada

City organizing entity: Vancouver, Canada

Publication in conference proceedings: Yes

Type of contribution: Scientific book or monograph

José C. del Río; Jorge Rencoret; Pepijn Prinsen; Ana Gutiérrez; Angel T. Martínez; John Ralph. En: 17th International Symposium on Wood, Fibre and Pulping Chemistry, Vancouver (Canada). Available on-line at: <http://hdl.handle.net/10261/86427>.

14 **Title of the work:** Modification of the lignin structure of eucalypt feedstocks during chemical construction by kraft, soda-aq and soda-O pulping

Name of the conference: COST ACTION FP0901: ANALYTICAL TECHNIQUES FOR BIOREFINERIES: Workshop “Challenges in lignin analytics: thermal properties and quantitation

Type of event: COST meeting

Corresponding author: Yes

City of event: Espoo, Etelä-Suomi, Finland

Date of event: 31/08/2012

End date: 31/08/2012

Organising entity: VTT Technical Research Centre of Finland - Aalto University

City organizing entity: Espoo-Helsinki, Etelä-Suomi, Finland

Pepijn Prinsen; Ana Gutiérrez; José C. del Río; Manuel A. Berbis; Jesús Jiménez-Barbero; Angel T Martínez; Tiina Liitiä; Tarja Taminnen. 31/08/2012.

15 **Title of the work:** Differences in the composition of lipophilic extractives and lignin in Brazilian woods from different eucalypt hybrids

Name of the conference: 12th European Workshop on Lignocellulosics and Pulp (EWLP-2012)

Type of event: Workshop

Geographical area: European Union

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Espoo, Etelä-Suomi, Finland

Date of event: 27/08/2012

End date: 30/08/2012

Organising entity: VTT Technical Research Centre of Finland - Aalto University

City organizing entity: Espoo, Etelä-Suomi, Finland

Publication in conference proceedings: Yes

With external admission assessment committee: Yes

Type of contribution: Scientific book or monograph

Pepijn Prinsen; Jorge Rencoret; Ana Gutiérrez; Lidia Nieto; Jesús Jiménez-Barbero; Jorge L. Colodette; Ángel T. Martínez; José Carlos del Río. En: 12th European Workshop on Lignocellulosics and Pulp - EWLP 2012 - Proceeding. pp. 452 - 455. American Chemical Society, 30/08/2012. Available on-line at: <http://hdl.handle.net/10261/86336>. ISBN 978-952-10-8187-3

16 **Title of the work:** Modification of the lignin structure of eucalypt feedstocks during chemical deconstruction by kraft, soda-AQ and soda-O2 processing

Name of the conference: 12th European Workshop on Lignocellulosics and Pulp (EWLP-2012)

Type of event: Workshop

Geographical area: European Union

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Espoo, Etelä-Suomi, Finland

Date of event: 27/08/2012

End date: 30/08/2012

Organising entity: VTT Technical Research Centre of Finland - Aalto University

City organizing entity: Espoo, Finland

Publication in conference proceedings: Yes

With external admission assessment committee: Yes

Type of contribution: Scientific book or monograph

Pepijn Prinsen; Ana Gutiérrez; José C. del Río; Manuel A. Berbis; Angel T. Martínez; Tina Liitiä; Tarja Tamminen. En: 12th European Workshop on Lignocellulosics and Pulp - EWLP 2012 - Proceedings. pp. 456 - 459. American Chemical Society, 27/08/2012. Available on-line at: <http://hdl.handle.net/10261/86336>. ISBN 978-952-10-8187-3

17 **Title of the work:** Structural characterization of the lignin in the cortex and pith of elefant grass (Pennisetum purpureum) stems

Name of the conference: 12th European Workshop on Lignocellulosics and Pulp - EWLP 2012

Type of event: Workshop

Geographical area: European Union

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Espoo,

Date of event: 27/08/2012

End date: 30/08/2012

Organising entity: VTT Technical Research Centre of Finland - Aalto University

City organizing entity: Espoo, Etelä-Suomi, Finland

With external admission assessment committee: Yes

Type of contribution: Scientific book or monograph

José Carlos del Río; Pepijn Prinsen; Jorge Rencoret; Lidia Nieto; Jesús Jiménez-Barbero; John Ralph; Ángel T. Martínez; Ana Gutiérrez. En: 12th European Workshop on Lignocellulosics and Pulp - EWLP 2012 - Proceedings. pp. 488 - 491. American Chemical Society, 30/08/2012. Available on-line at: <http://hdl.handle.net/10261/86336>. ISBN 978-952-10-8187-3

R&D management and participation in scientific committees

R&D management

1 **Name of the activity:** Valorization of Lignocellulosic Biomass Side Streams for Sustainable Production of Chemicals, Materials & Fuels Using Low Envoronmental Impact Technoologies
Type of management: Management of R&D&I actions and projects
Performed tasks: Postdoctoral Researcher Cost Action FP1306
Entity: EU FPS Framework
Type of entity: Public Research Body
Start date: 01/02/2017
Duration: 1 year
Aims of the event: Catalytic valorization of lignocellulosic biomass side streams
Target group profile: Public agencies funding R&D&I
Geographical area: European Union
Specific tasks: Research. Training and supervision of PhD and MSc students.
Identify key words: Atomic emission; Atomic absorption (faas, etaas); Gas chromatography (fid, ecd, ms, etc); Infrared spectrometry (nir, ftir, etc); Spectrophotometry; Isolation and structural determination; Sustainable chemistry; Nanostructures; Chemistry of the elements of transition; Chemical surface; Oxides and sulfides; Heterogenous; Supported catalysis; Structural determination and study of properties physical-chemistries; Industrial chemistry

2 **Name of the activity:** Development of Continuous Flow Processes for Chemo-enzymatic Biomass Valorization
Type of management: Management of R&D&I actions and projects
Performed tasks: Postdoctoral Researcher National Proyect CTQ2016-78289-P
City of entity: Córdoba, Andalusia, Spain
Entity: Spanish Ministry of Science and Innovation
Type of entity: State agency
Start date: 01/02/2017
Duration: 1 year
Nº of people: 8
Aims of the event: Catalytic Biomass Valorization
Target group profile: Public agencies funding R&D&I
Geographical area: National
Specific tasks: Research. Training and supervision of PhD and MSc students.
Identify key words: Gas chromatography (fid, ecd, ms, etc); Infrared spectrometry (nir, ftir, etc); Spectrophotometry; Catalysis; Sustainable chemistry; Reactions on non conventional means; Structural and spectroscopy; Reaction mechanisms; Structure-reactivity; Chemistry of the elements of transition; Supported catalysis; Industrial chemistry

3 **Name of the activity:** Catalysis for Sustainable Chemicals from Biomass (CatchBio)
Type of management: Management of R&D&I actions and projects
Performed tasks: Postdoctoral Researcher Catchbio Proyect 053.70.334 - SmartMix
City of entity: Amsterdam, Noord-Holland, Holland
Entity: University of Amsterdam
Start date: 01/02/2014
Duration: 2 years
Average annual budget: 100.000
Nº of people: 1
Aims of the event: Catalytic Valorization of lignins to Key Phenols and Aromatics
Target group profile: Public agencies funding R&D&I
Geographical area: National
Specific tasks: Budget management, Design of Research Strategy, Research and Transfer of Knowledge
Identify key words: Isolation and structural determination; Nanostructures; Chemistry of the elements of transition; Inorganic theoric chemistry and modelization; Heterogenous; Homogenous; Industrial chemistry

4 **Name of the activity:** Optimised Pre-treatment of Fast Growing Woody and Nonwoody Brazilian Crops by Detailed Characterisation of Chemical Changes produced in the Lignin-Carbohydrate Matrix (LIGNODECO)
Type of management: Management of R&D&I actions and projects
Performed tasks: PhD Researcher Proyect FP7-KBBE-2009-3 (Grant Agreement KBBE-244362)
City of entity: European Commission,
Entity: Seventh Framework Programme (FP7)
Start date: 01/10/2010 **Duration:** 2 years - 3 months
Access system: By competition
Average annual budget: 224.250 **Nº of people:** 1
Aims of the event: Get insight in the structural changes during pulping of Brazilian wood and crops for optimized pretreatments
Target group profile: Public agencies funding R&D&I **Geographical area:** European Union
Specific tasks: Research and Transfer of Scientific Results and Knowledge
Identify key words: Gas chromatography (fid, ecd, ms, etc); Spectrophotometry; Isolation and structural determination; Industrial chemistry

5 **Name of the activity:** Enzymatic Treatments for the Elimination of Lipids and Lignin from the Pulp (ELLE project, AGL-2008-00709)
Type of management: Management of R&D&I actions and projects
Performed tasks: PhD Researcher National Project AGL-2008-00709 (Grant Agreement)
City of entity: Seville, Andalusia, Spain
Entity: Spanish Ministry of Education, Culture and Sports **Type of entity:** State agency
Start date: 01/09/2009 **Duration:** 2 years
Access system: By competition
Average annual budget: 83.490 **Nº of people:** 1
Aims of the event: Utilization of Wood and Grasses for the Production of Paper and Pulp
Target group profile: Public agencies funding R&D&I **Geographical area:** National
Specific tasks: Research and Transfer of Scientific Results and Knowledge
Identify key words: Mass spectrometry; Gas chromatography (fid, ecd, ms, etc); Spectrophotometry; Isolation and structural determination

6 **Name of the activity:** Immobilization of Lactoperoxidase
Type of management: Management of R&D&I actions and projects
Performed tasks: Principle Researcher Lactoperoxidase Proyect
City of entity: Gante, Belgium
Entity: Centro of Expertise for Industrial Biotechnology and Biocatalysis **Type of entity:** University Department
Start date: 01/11/2006 **Duration:** 10 months
Average annual budget: 60.000 **Nº of people:** 1
Aims of the event: Continuous flow production of chlorine free desinfectant
Target group profile: Private non-profit agencies funding R&D&I **Geographical area:** National
Specific tasks: Experimental design at lab and pilot scale. Transfer of scientific results and knowledge to private partners.
Identify key words: Enzymatic reactions

Other achievements

Stays in public or private R&D centres

1 **Entity:** KU Leuven **Type of entity:** University
Faculty, institute or centre: Center for Sustainable Catalysis and Engineering
City of entity: Leuven, Belgium
Primary (UNESCO code): 230318 - Metals; 230690 - Chemistry of Natural Products Organic; 330301 - Catalysis technology; 330305 - Chemical synthesis
Secondary (UNESCO code): 330304 - Chemical separation
Start-End date: 18/03/2018 - 30/04/2018 **Duration:** 1 month - 13 days
Funding entity: COST Action FP1306 (Valorisation of lignocellulosic biomass side streams for sustainable production of chemicals, materials and fuels using low environmental impact technologies - LIGNOVAL) **Type of entity:** Foundation
City funding entity: Córdoba, Andalusia, Spain
Name of programme: Catalyst screening in the oxidative carbonylation of phenols and lignin oils using methyl formate for the synthesis of renewable methyl phenyl carbonate
Goals of the stay: Post-doctoral
Provable tasks: Reactor set up and catalyst screening in the oxidative carbonylation of lignin derived phenols
Acquired skills developed: Pressurized Reactor Technology, Reactions with Carbon Monoxide
Identify key words: Industrial chemistry

2 **Entity:** Sorbonne Universités, Université de Technologie de Compiègne (UTC) **Type of entity:** University Department
Faculty, institute or centre: The Len Research Group, Laboratory Transformations Intégrées de la Matière Renouvelable
City of entity: Compiègne, Île de France, France
Primary (UNESCO code): 230305 - Carbon; 230314 - Hydrogen; 230318 - Metals; 230329 - Transition elements; 230699 - Other
Start-End date: 01/02/2017 - 16/03/2017 **Duration:** 1 month - 15 days
Funding entity: EU FPS Framework Program **Type of entity:** Foundation
City funding entity: Córdoba, Andalusia, Spain
Name of programme: COST Action FP1306 (Valorisation of lignocellulosic biomass side streams for sustainable production of chemicals, materials and fuels using low environmental impact technologies - LIGNOVAL)
Goals of the stay: Post-doctoral
Provable tasks: Short Term Scientific Missions, Cost Action FP1306
Acquired skills developed: Pressurized reactor technology; Microwave-assisted reactor rechnology.

3 **Entity:** University of Amsterdam (UVA) **Type of entity:** University
Faculty, institute or centre: Van ´t Hoff Institute for Molecular Sciences, Department of Heterogeneous Catalysisent of Hetero
City of entity: Amsterdam, Noord-Holland, Holland
Primary (UNESCO code): 230314 - Hydrogen; 230318 - Metals; 230325 - Sodium compounds; 230329 - Transition elements; 230602 - Aromatic hydrocarbons; 230618 - Structure of organic molecules
Start-End date: 01/02/2014 - 31/01/2016 **Duration:** 2 years
Funding entity: Catchbio, SmartMix Program (The Netherlands)

City funding entity: Holland
Name of programme: Catalysis for Sustainable Chemicals from Biomass (Third phase: lignin)
Goals of the stay: Post-doctoral
Provable tasks: R&D: 1) Catalytic lignin valorisation to key phenols and aromatics; 2) Synthesis and application of porous (doped) carbons; 3) Enzymatic lignin conversion; 4) Lab managment
Acquired skills developed: Characterization of organic compounds (NMR, IR, GC, GC/MS). Synthesis and characterization (XRD, TPD, TGA) ofinorganic materials

4 **Entity:** Wageningen University and Research (WUR) **Type of entity:** University Research Institute
Faculty, institute or centre: Dept. of Bio-based Products
City of entity: Wageningen, Gelderland, Holland
Primary (UNESCO code): 230103 - Chromatographic analysis; 230109 - Magnetic resonance spectroscopy; 230110 - Mass spectroscopy; 230314 - Hydrogen; 230318 - Metals; 230325 - Sodium compounds; 230690 - Chemistry of Natural Products Organic
Start-End date: 21/03/2014 - 31/10/2014 **Duration:** 7 months - 7 days
Funding entity: Catchbio, SmartMix Program (The Netherlands) **Type of entity:** University Centres and Structures and Associated Bodies
City funding entity: Holland
Name of programme: Catchbio - Catalytic Valorization of Lignins to Key Phenols and Aromatics
Goals of the stay: Post-doctoral
Provable tasks: Research and Transfer of Results
Acquired skills developed: Reactor Set Up and Operation for Reactions in Liquid Ammonia, Catalyst Synthesis and Characterization
Relevant results: Strassberger Z Prinsen P van der Klis F. et al. (2015), Lignin solubilisation and gentle fractionation in liquid ammonia, Green Chemistry, 17, 325-334, DOI: 10.1039/C4GC 01143 K

5 **Entity:** VTT Technical Research Centre of Finland **Type of entity:** R&D Centre
Faculty, institute or centre: Division of Bio- and Chemical Processes
City of entity: Espoo, Etelä-Suomi, Finland
Primary (UNESCO code): 230109 - Magnetic resonance spectroscopy; 230110 - Mass spectroscopy; 230115 - Polymer analysis; 230618 - Structure of organic molecules; 230690 - Chemistry of Natural Products Organic
Start-End date: 01/03/2012 - 01/07/2012 **Duration:** 3 months
Funding entity: Spanish Ministry of Education
Name of programme: Mobility Grant of the Spanish Ministry of Education
Goals of the stay: Doctorate
Provable tasks: Isolation, Purification and Analysis of Lignins via 2D-NMR, 31P-NMR and Size Exclusion Chromatography
Acquired skills developed: Analysis via 31P-NMR and Size Exclusion Chromatography
Identify key words: Gas chromatography (fid, ecd, ms, etc); Nuclear magnetic resonance