



Iker Aguirrezabal Telleria

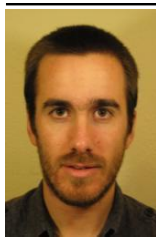
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**Iker Aguirrezabal Telleria**

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Current professional situation

Employing entity: Universidad del País Vasco **Type of entity:** University
Department: Ingeniería Química y del Medio Ambiente, Escuela Superior de Ingeniería de Bilbao
Professional category: Profesor Agregado - Contratado Doctor
Start date: 20/01/2021
Type of contract: Permanent employment contract **Dedication regime:** Full time
Performed tasks: 1. Docencia 2. Investigación 3. Coordinador del Máster en Ingeniería de Materiales Avanzados 4. Coordinador de asignaturas de: - Tecnología Química - Operaciones Básicas en Ingeniería Ambiental

Previous positions and activities

	Employing entity	Professional category	Start date
	Universidad del País Vasco	Profesor Adjunto	01/04/2018

Employing entity: Universidad del País Vasco **Type of entity:** University
Professional category: Profesor Adjunto
Start-End date: 01/04/2018 - 19/01/2021



Education

University education

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

- 1 University degree:** Máster
Name of qualification: Master in Chemical Engineering
Degree awarding entity: Universidad de Groningen **Type of entity:** University (Holanda)
Date of qualification: 30/04/2009
- 2 University degree:** Higher degree
Name of qualification: Licenciado Ingeniería Química

Doctorates

Doctorate programme: Ingeniería de Materiales y de Procesos Sostenibles
Degree awarding entity: Universidad del País Vasco **Type of entity:** University
Date of degree: 23/06/2013

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French	C1	C1	C1	C1	C1
Spanish	C2	C2	C2	C2	C2
Basque	C2	C2	C2	C2	C2
English	C2	C2	C2	C2	C2

Teaching experience

General teaching experience

- 1 Name of the course:** Ecología (euskera)
University degree: Grado en Ingeniería Ambiental
Start date: 31/01/2021 **End date:** 31/07/2021
Entity: Universidad del País Vasco **Type of entity:** University
- 2 Name of the course:** Química (euskera)
University degree: Grado en Ingeniería en Tecnología Industrial
Start date: 01/09/2020 **End date:** 31/07/2021



Entity: Universidad del País Vasco

Type of entity: University

3 Name of the course: Tecnología Química (castellano)

University degree: Grado en Ingeniería en Organización Industrial

Start date: 01/09/2020

End date: 31/07/2021

Entity: Universidad del País Vasco

Type of entity: University

4 Name of the course: Técnicas Instrumentales en Ingeniería de Materiales (inglés)

University degree: Máster Universitario en Ingeniería de Materiales Avanzados

Start date: 01/10/2020

End date: 31/12/2020

Entity: Universidad del País Vasco

Type of entity: University

5 Name of the course: Ciencia y Tecnología Ambiental (euskera)

University degree: Grado en Ingeniería en Tecnología Industrial

Start date: 31/01/2020

End date: 31/07/2020

Entity: Universidad del País Vasco

Type of entity: University

6 Name of the course: Ecología (euskera)

University degree: Grado en Ingeniería Ambiental

Start date: 31/01/2020

End date: 31/07/2020

Entity: Universidad del País Vasco

Type of entity: University

7 Name of the course: Química (euskera)

University degree: Grado en Ingeniería en Tecnología Industrial

Start date: 01/09/2019

End date: 31/07/2020

Entity: Universidad del País Vasco

Type of entity: University

8 Name of the course: Ciencia y Tecnología Ambiental (Euskera)

University degree: Grado en Ingeniería en Tecnología Industrial

Start date: 31/01/2019

End date: 31/07/2019

Entity: Universidad del País Vasco

Type of entity: University

9 Name of the course: Ecología (euskera)

University degree: Grado en Ingeniería Ambiental

Start date: 31/01/2019

End date: 31/07/2019

Entity: Universidad del País Vasco

Type of entity: University

10 Name of the course: Química (euskera)

University degree: Grado en Ingeniería en Tecnología Industrial

Start date: 01/09/2018

End date: 31/07/2019

Entity: Universidad del País Vasco

Type of entity: University

11 Name of the course: Química (inglés)

University degree: Grado en Ingeniería en Tecnología Industrial

Start date: 01/09/2018

End date: 31/07/2019

Entity: Universidad del País Vasco

Type of entity: University

12 Name of the course: Ecología (euskera)

University degree: Grado en Ingeniería Ambiental

Start date: 31/01/2018

End date: 31/07/2018



Entity: Universidad del País Vasco

Type of entity: University

Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** TFG: Katalizatzaile solidoen propietateen eragina etilenoaren produkzioan
Entity: Universidad del País Vasco **Type of entity:** University
Student: Julia San Juan
Date of reading: 20/07/2021
- 2 Project title:** Doctorado: Desarrollo de catalizadores heterogéneos para la obtención de compuestos de alto valor añadido a partir de la hidrogenación del furfural
Entity: Universidad del País Vasco **Type of entity:** University
Student: Alberto Barranca Jiménez
Date of reading: 23/04/2021
- 3 Project title:** TFG: fenola bentzenotik lortzeko bi prozesuren arteko konparaketa
Entity: Universidad del País Vasco **Type of entity:** University
Student: Eneko Gil
Date of reading: 02/09/2020
- 4 Project title:** TFG: etanoletik abiatuz olefina dimeroen eraketa
Entity: Universidad del País Vasco **Type of entity:** University
Student: Nagore Romero
Date of reading: 17/07/2018
- 5 Project title:** Doctorado: Conversión catalítica de bio-alcoholes para la producción de olefinas de cadena corta verdes.
Entity: Co-tutela de UPV/EHU con la Universidad de Sultan Moulay Slimane **Type of entity:** University
Student: Lamiae Ouayloul

Educational or pedagogical publications, books, articles, etc.

- 1** Aguirrezabal; Gandarias; Larrañaga; Muñoz. Technical communication in Engineering: writing and presentation,
Name of the materials: Open Course Ware
Date of drafting: 2021
Format: Notes
- 2** Aguirrezabal; Gandarias; Larrañaga; Muñoz. Comunicación técnica en Ingeniería: redacción y exposición,
Name of the materials: Open Course Ware
Date of drafting: 2019
Format: Notes



Participation in innovative teaching projects

Project title: Metodología de aprendizaje basado en la investigación en trabajos fin de grado en ingeniería con un enfoque multidisciplinar para abordar un reto común de sostenibilidad.

Type of participation: Team member

Time of working relationship: For a limited time

Funding entity: Universidad del País Vasco

Type of entity: University

Start-End date: 01/09/2020 - 31/12/2022

Duration: 2 years

Participation in conferences with talks focused on teacher training

1 Name of the event: 15th International Technology, Education and Development Conference

Type of event: Conference

City of event: Online,

Date of presentation: 08/03/2021

LEARNING ABOUT SUSTAINABILITY THROUGH URBAN GARDEN PRACTICUM IN ENVIRONMENTAL ENGINEERING DEGREE.

2 Name of the event: ICERI, International Conference of Education, Research and Innovation

Type of event: Conference

Date of presentation: 09/11/2020

Introducing sustainability and the agenda 2030 in engineering degrees through the research based learning methodology.

Scientific and technological experience

Research and development groups/teams

1 Name of the group: LSAC Berkeley

Aims of the group: Desarrollo y estudio de catalizadores sólidos

Type of collaboration: Co-authorship of projects and their development

Start date: 01/04/2014

Duration: 3 years

2 Name of the group: Erhard Kemnitz group

Aims of the group: Desarrollo de catalizadores de MgF₂

Type of collaboration: Co-authorship of publications

Start date: 01/03/2012

Duration: 6 months

3 Name of the group: SUPREN

Aims of the group: Procesos Sostenibles de Ingeniería Química

Type of collaboration: Co-authorship of projects and their development

Start date: 01/01/2010

Duration: 11 years

4 Name of the group: Grupo de Investigación de Erik Heeres

Aims of the group: Highly intensified catalytic technology for biomass conversion to biofuels and biobased chemicals



Type of collaboration: Co-authorship of publications
Start date: 01/01/2008

Duration: 1 year - 4 months

5 Name of the group: Proces Groningen

Aims of the group: Empresa de Ingeniería Química

Type of collaboration: Co-authorship of projects and their development

Start date: 01/09/2005

Duration: 3 years

Scientific or technological activities

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

1 Name of the project: Discovery of efficient Enzyme-like Metal Organic frameworks to activate biomethane at low temperature

Entity where project took place: Universidad del País Vasco **Type of entity:** University

Nº of researchers: 25

Start-End date: 01/09/2023 - 01/09/2027

Total amount: 3.556.288 €

2 Name of the project: Reaction robot with intimate photocatalytic and separation functions in a 3-D network driven by artificial intelligence

Entity where project took place: Universidad del País Vasco (lider del proyecto) **Type of entity:** University

City of entity: Spain

Name principal investigator (PI, Co-PI....): Aguirrezabal Telleria 1; Noel; Gallucci; Cronin; Ravelli; Savatieiev; Chisholm; Gomez

Nº of researchers: 25

Start-End date: 01/06/2022 - 01/06/2026

Total amount: 3.200.000 €

3 Name of the project: Desarrollo de métodos de solvatación capilar para catalizar reacciones de oligomerización y Guerbet para producir biocombustibles

Entity where project took place: Universidad del País Vasco **Type of entity:** University

Name principal investigator (PI, Co-PI....): Oregui; Etxeberria; Gil; Arias; Aguirrezabal 1

Nº of researchers: 5

Start-End date: 01/09/2022 - 01/09/2025

Total amount: 170.000 €

4 Name of the project: Desarrollo de métodos de solvatación capilar para catalizar reacciones de conversión de CH₄ y CO₂ a metanol

Entity where project took place: Universidad del País Vasco **Type of entity:** University

Name principal investigator (PI, Co-PI....): Oregui; Etxeberria; Gil; Arias; Aguirrezabal

Nº of researchers: 5

Start-End date: 01/11/2022 - 31/12/2023

Total amount: 180.000 €



- 5** **Name of the project:** Valorización de biomasa mediante procesos catalíticos heterogéneos avanzados
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Jesus Requies; Pedro Luis Arias
Start-End date: 01/01/2019 - 31/12/2021
Total amount: 202.070 €
- 6** **Name of the project:** Tecnologías catalíticas avanzadas para la transformación de residuos biomásicos en biocombustibles y productos renovables (CTQ2015-64226-C3-2- R)
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Jesus Requies; Pedro Luis Arias
Start-End date: 01/01/2016 - 31/12/2018
Total amount: 188.760 €
- 7** **Name of the project:** COUPCAT
Entity where project took place: Universidad del País Vasco y Universidad de California Berkeley
Name principal investigator (PI, Co-PI....): Enrique Iglesia; Pedro Luis Arias
Nº of researchers: 3
Start-End date: 01/04/2014 - 31/03/2017
Total amount: 246.000 €
- 8** **Name of the project:** Nuevos procesos catalíticos en bio-refinerías: transformación de carbohidratos en bioproductos de interés (CTQ2012-38204-C03-03)
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): María Belén Güemez
Start-End date: 01/01/2013 - 31/12/2015
Total amount: 105.300 €
- 9** **Name of the project:** Energías renovables, pilas de combustible y baterías, una cadena de valor
Entity where project took place: Universidad del País Vasco
Name principal investigator (PI, Co-PI....): José Francisco Cambra
Start-End date: 2012 - 2013
Total amount: 24.200 €
- 10** **Name of the project:** Nuevos materiales catalíticos para procesos sostenibles en biorefinería. (BIOSOCAT) (ENE2009-12743-C04-04)
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): María Belén Güemez
Start-End date: 01/01/2010 - 31/12/2012
Total amount: 145.200 €
- 11** **Name of the project:** Desarrollo de procesos avanzados para la producción de hidrógeno (UE09+/27)
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Victoria Laura Barrio
Start-End date: 01/01/2010 - 31/12/2010
Total amount: 78.000 €



- 12** **Name of the project:** Desarrollo de una metodología para la eliminación de fluoruros en el oxido waelz mediante procesos hidrometalúrgicos
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): José Francisco Cambra
Start-End date: 01/01/2010 - 31/12/2010
Total amount: 75.550 €
- 13** **Name of the project:** Investigación y desarrollo de tecnologías para el aumento de eficiencia energética, captura y valorización de CO2 (VALCAPEF) (IE09-263).
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): José Francisco Cambra
Start-End date: 01/01/2009 - 31/12/2010
Total amount: 156.073 €
- 14** **Name of the project:** Direct Ethylene-to-Propylene Route using MOF catalysts
Entity where project took place: Massachusetts Institute of Technology (MIT)
Name principal investigator (PI, Co-PI....): Mircea Dinca; Iker Aguirrezabal
Nº of researchers: 4
Start date: 01/01/2020
Total amount: 21.000 €

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

Name of the project: Desarrollo de un proceso termocatalítico y diseño/caracterización de materiales para procesos de refinería
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): Aguirrezabal; Gandarias; Arias
Nº of researchers: 3
Funding entity or bodies: CEPESA
Start date: 01/11/2018 **Duration:** 2 years
Total amount: 103.000 €

Results

Industrial and intellectual property

Title registered industrial property: Reaction process involving capillary condensation within a microporous catalyst
Entity holder of rights: Universidad del País Vasco
Nº of application: WO2020023256A1
Date of register: 30/01/2020



Scientific and technological activities

Scientific production

H index: 18

Date of application: 20/01/2022

Fuente de Índice H: GOOGLE SCHOLAR

Publications, scientific and technical documents

- 1** New mechanistic insights on the role of water for the dehydration of ethanol into ethylene over ZSM-5 catalysts at low temperature. *Green Chemistry*. 03/2023.
Type of production: Scientific paper **Format:** Journal
- 2** Selective furfural hydrogenolysis towards 2-methylfuran by controlled poisoning of Cu–Co catalysts with chlorine. *Reaction Chemistry & Engineering*. 2023.
Type of production: Scientific paper **Format:** Journal
- 3** One-Pot Production of 1, 5-Pentenediol from Furfural Through Tailored Hydrotalcite-Based Catalysts. *Catalysis Letters*. 08/2022.
Type of production: Scientific paper **Format:** Journal
- 4** Clara Jarauta-Cordoba; Mikel Oregui Bengoechea; Iker Agirrezabal-Telleria; Pedro-Luis Arias; Inaki Gandarias. Insights into the Nature of the Active Sites of Pt-WO_x/Al₂O₃ Catalysts for Glycerol Hydrogenolysis into 1,3-Propanediol. *CATALYSTS*. 11 - 10, 10/2021.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** CHEMISTRY, PHYSICAL
Impact index in year of publication: 4.146 **Journal in the top 25%:** No
Position of publication: 67 **No. of journals in the cat.:** 162
- 5** Werner R. Heinz; Raphael Junk; Iker Agirrezabal-Telleria; Bart Bueken; Hana Bunzen; Thorsten Golz; Mirza Cokoja; Dirk De Vos; Roland A. Fischer. Thermal defect engineering of precious group metal-organic frameworks: impact on the catalytic cyclopropanation reaction. *CATALYSIS SCIENCE & TECHNOLOGY*. 10 - 23, pp. 8077 - 8085. 12/2020. ISSN 2044-4753
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** CHEMISTRY, PHYSICAL
Impact index in year of publication: 6.119 (2020) **Journal in the top 25%:** No
Position of publication: 44 **No. of journals in the cat.:** 162
- 6** Iker Agirrezabal-Telleria; Enrique Iglesia. Mechanistic insights and consequences of intrapore liquids in ethene, propene, and butene dimerization on isolated Ni²⁺ sites grafted within aluminosilicate mesopores. *JOURNAL OF CATALYSIS*. 389, pp. 690 - 705. 09/2020. ISSN 0021-9517
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** ENGINEERING, CHEMICAL
Impact index in year of publication: 7.92 (2020) **Journal in the top 25%:** Yes
Position of publication: 4 **No. of journals in the cat.:** 133

- 7** Werner R. Heinz; Iker Agirrezabal-Telleria; Raphael Junk; Jan Berger; Junjun Wang; I Dmitry Sharapa; Miryam Gil-Calvo; Ignacio Luz; Mustapha Soukri; Felix Studt; Yuemin Wang; Christof Woell; Hana Bunzen; Markus Drees; Roland A. Fischer. Thermal Defect Engineering of Precious Group Metal-Organic Frameworks: A Case Study on Ru/Rh-HKUST-1 Analogues. ACS APPLIED MATERIALS & INTERFACES. 12 - 36, pp. 40635 - 40647. 09/2020. ISSN 1944-8244
- Type of production:** Scientific paper **Format:** Journal
Impact source: ISI **Category:** NANOSCIENCE & NANOTECHNOLOGY
Impact index in year of publication: 9.229 (2020) **Journal in the top 25%:** Yes
Position of publication: 21 **No. of journals in the cat.:** 106
- 8** Mikel Oregui-Bengoechea; Ion Agirre; Aitziber Iriondo; Alexander Lopez-Urionabarrenechea; Jesus M. Reques; Iker Agirrezabal-Telleria; Kepa Bizkarra; V. Laura Barrio; Jose F. Cambra. Heterogeneous Catalyzed Thermochemical Conversion of Lignin Model Compounds: An Overview. TOPICS IN CURRENT CHEMISTRY. 377 - 6, 12/2019. ISSN 2365-0869
- Type of production:** Scientific paper **Format:** Journal
Impact source: ISI **Category:** CHEMISTRY, MULTIDISCIPLINARY
Impact index in year of publication: 5.27 **Journal in the top 25%:** Yes
Position of publication: 14 **No. of journals in the cat.:** 127
- 9** Iker Agirrezabal-Telleria; Ignacio Luz; Manuel A. Ortuno; Mikel Oregui-Bengoechea; Inaki Gandarias; Nuria Lopez; Marty A. Lail; Mustapha Soukri. Gas reactions under intrapore condensation regime within tailored metal-organic framework catalysts. NATURE COMMUNICATIONS. 10, 05/2019. ISSN 2041-1723
- Type of production:** Scientific paper **Format:** Journal
Impact source: ISI **Category:** MULTIDISCIPLINARY SCIENCES
Impact index in year of publication: 12.121 (2019) **Journal in the top 25%:** Yes
Position of publication: 6 **No. of journals in the cat.:** 71
- 10** Inaki Gandarias; Sara Garcia-Fernandez; Iker Obregon; Iker Agirrezabal-Telleria; Pedro Luis Arias. Production of 2-methylfuran from biomass through an integrated biorefinery approach. FUEL PROCESSING TECHNOLOGY. 178, pp. 336 - 343. 09/2018. ISSN 0378-3820
- Type of production:** Scientific paper **Format:** Journal
Impact source: ISI **Category:** CHEMISTRY, APPLIED
Impact index in year of publication: 4.507 (2018) **Journal in the top 25%:** Yes
Position of publication: 9 **No. of journals in the cat.:** 74
- 11** Iker Agirrezabal-Telleria; Enrique Iglesia. Stabilization of active, selective, and regenerable Ni-based dimerization catalysts by condensation of ethene within ordered mesopores. JOURNAL OF CATALYSIS. 352, pp. 505 - 514. 08/2017. ISSN 0021-9517
- Type of production:** Scientific paper **Format:** Journal
Impact source: ISI **Category:** ENGINEERING, CHEMICAL
Impact index in year of publication: 6.759 (2017) **Journal in the top 25%:** Yes
Position of publication: 6 **No. of journals in the cat.:** 137
- 12** Shuai Wang; Iker Agirrezabal-Telleria; Aditya Bhan; Dante Simonetti; Kazuhiro Takanabe; Enrique Iglesia. Catalytic routes to fuels from C-1 and oxygenate molecules. FARADAY DISCUSSIONS. 197, pp. 9 - 39. 04/2017. ISSN 1359-6640
- Type of production:** Scientific paper **Format:** Journal
Impact source: ISI **Category:** CHEMISTRY, PHYSICAL



Impact index in year of publication: 3.427 (2017)
Position of publication: 57

Journal in the top 25%: No
No. of journals in the cat.: 147

- 13** Iker Agirrezabal-Telleria; Enrique Iglesia. Selective, stable and active Ni-based catalysts for low temperature alkene dimerization. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY. 253, 04/2017. ISSN 0065-7727
Type of production: Scientific paper **Format:** Journal
- 14** I. Gandarias; P. L. Arias; I. Agirrezabal-Telleria. Economic assessment for the production of 1,2-Propanediol from bioglycerol hydrogenolysis using molecular hydrogen or hydrogen donor molecules. ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY. 35 - 2, pp. 447 - 454. 03/2016. ISSN 1944-7442
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** ENGINEERING, CHEMICAL
Impact index in year of publication: 1.672 (2016) **Journal in the top 25%:** No
Position of publication: 65 **No. of journals in the cat.:** 135
- 15** I. Agirrezabal-Telleria; N. Miletic; P. L. Arias. Regeneration of surface acid sites via mild oxidation on dehydration catalysts. CATALYSIS SCIENCE & TECHNOLOGY. 6 - 10, pp. 3367 - 3370. 2016. ISSN 2044-4753
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** CHEMISTRY, PHYSICAL
Impact index in year of publication: 5.773 (2016) **Journal in the top 25%:** Yes
Position of publication: 27 **No. of journals in the cat.:** 146
- 16** N. Miletic; U. Izquierdo; I. Obregon; K. Bizkarra; I. Agirrezabal-Telleria; L. V. Barrio; P. L. Arias. Oxidative steam reforming of methane over nickel catalysts supported on Al₂O₃-CeO₂-La₂O₃. CATALYSIS SCIENCE & TECHNOLOGY. 5 - 3, pp. 1704 - 1715. 03/2015. ISSN 2044-4753
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** CHEMISTRY, PHYSICAL
Impact index in year of publication: 5.287 (2015) **Journal in the top 25%:** Yes
Position of publication: 28 **No. of journals in the cat.:** 144
- 17** Felix Hemmann; Iker Agirrezabal-Telleria; Christian Jaeger; Erhard Kemnitz. Quantification of acidic sites of nanoscopic hydroxylated magnesium fluorides by FTIR and N-15 MAS NMR spectroscopy. RSC ADVANCES. 5 - 109, pp. 89659 - 89668. 2015.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Impact index in year of publication: 3.289 (2015) **Journal in the top 25%:** No
Position of publication: 49 **No. of journals in the cat.:** 163
- 18** I. Agirrezabal-Telleria; I. Gandarias; P. L. Arias. Heterogeneous acid-catalysts for the production of furan-derived compounds (furfural and hydroxymethylfurfural) from renewable carbohydrates: A review. CATALYSIS TODAY. 234 - SI, pp. 42 - 58. 10/2014. ISSN 0920-5861
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** CHEMISTRY, APPLIED
Impact index in year of publication: 3.893 (2014) **Journal in the top 25%:** Yes
Position of publication: 6 **No. of journals in the cat.:** 72



- 19** C. Garcia-Sancho; I. Agirrezabal-Telleria; M. B. Gueemez; P. Maireles-Torres. Dehydration of D-xylose to furfural using different supported niobia catalysts. *APPLIED CATALYSIS B-ENVIRONMENTAL*. 152, pp. 1 - 10. 06/2014. ISSN 0926-3373
- Type of production:** Scientific paper
Impact source: ISI
Impact index in year of publication: 7.425 (2014)
Position of publication: 1
- Format:** Journal
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Journal in the top 25%: Yes
No. of journals in the cat.: 47
- 20** I. Agirrezabal-Telleria; J. Requies; M. B. Gueemez; P. L. Arias. Dehydration of D-xylose to furfural using selective and hydrothermally stable arenesulfonic SBA-15 catalysts. *APPLIED CATALYSIS B-ENVIRONMENTAL*. 145 - SI, pp. 34 - 42. 02/2014. ISSN 0926-3373
- Type of production:** Scientific paper
Impact source: ISI
Impact index in year of publication: 7.425 (2014)
Position of publication: 1
- Format:** Journal
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Journal in the top 25%: Yes
No. of journals in the cat.: 47
- 21** N. Alonso-Fagundez; I. Agirrezabal-Telleria; P. L. Arias; J. L. G. Fierro; R. Mariscal; M. Lopez Granados. Aqueous-phase catalytic oxidation of furfural with H₂O₂: high yield of maleic acid by using titanium silicalite-1. *RSC ADVANCES*. 4 - 98, pp. 54960 - 54972. 2014. ISSN 2046-2069
- Type of production:** Scientific paper
Impact source: ISI
Impact index in year of publication: 3.84 (2014)
Position of publication: 33
- Format:** Journal
Category: CHEMISTRY, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 157
- 22** I. Agirrezabal-Telleria; Y. Guo; F. Hemmann; P. L. Arias; E. Kemnitz. Dehydration of xylose and glucose to furan derivatives using bifunctional partially hydroxylated MgF₂ catalysts and N-2-stripping. *CATALYSIS SCIENCE & TECHNOLOGY*. 4 - 5, pp. 1357 - 1368. 2014. ISSN 2044-4753
- Type of production:** Scientific paper
Impact source: ISI
Impact index in year of publication: 5.426 (2014)
Position of publication: 28
- Format:** Journal
Category: CHEMISTRY, PHYSICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 139
- 23** I. Agirrezabal-Telleria; F. Hemmann; C. Jaeger; P. L. Arias; E. Kemnitz. Functionalized partially hydroxylated MgF₂ as catalysts for the dehydration of d-xylose to furfural. *JOURNAL OF CATALYSIS*. 305, pp. 81 - 91. 09/2013. ISSN 0021-9517
- Type of production:** Scientific paper
Impact source: ISI
Impact index in year of publication: 6.073 (2013)
Position of publication: 15
- Format:** Journal
Category: ENGINEERING, CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 143
- 24** I. Agirrezabal-Telleria; I. Gandarias; P. L. Arias. Production of furfural from pentosan-rich biomass: Analysis of process parameters during simultaneous furfural stripping. *BIORESOURCE TECHNOLOGY*. 143, pp. 258 - 264. 09/2013. ISSN 0960-8524
- Type of production:** Scientific paper
Impact source: ISI
Impact index in year of publication: 5.039 (2013)
Position of publication: 1
- Format:** Journal
Category: AGRICULTURAL ENGINEERING
Journal in the top 25%: Yes
No. of journals in the cat.: 12



- 25** Iker Agirrezabal-Telleria; Cristina Garcia-Sancho; Pedro Maireles-Torres; Pedro Luis Arias. Dehydration of xylose to furfural using a Lewis or Bronsted acid catalyst and N-2 stripping. CHINESE JOURNAL OF CATALYSIS. 34 - 7, pp. 1402 - 1406. 07/2013. ISSN 0253-9837
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 8.27
Position of publication: 6
Format: Journal
Category: CHEMISTRY, APPLIED
Journal in the top 25%: Yes
No. of journals in the cat.: 74
- 26** Felix Hemmann; Iker Agirrezabal-Telleria; Erhard Kemnitz; Christian Jaeger. Probing Slow Chemical Exchange of Pyridine Molecules at Acid Magnesium Hydroxide Fluoride Surfaces by N-15 NMR. JOURNAL OF PHYSICAL CHEMISTRY C. 117 - 28, pp. 14710 - 14716. 07/2013. ISSN 1932-7447
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 4.835 (2013)
Position of publication: 29
Format: Journal
Category: CHEMISTRY, PHYSICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 251
- 27** Lidia Lopez Perez; Maria J. Ortiz-Iniesta; Zheng Zhang; Iker Agirrezabal-Telleria; Martijn Santes; Hero Jan Heeres; Ignacio Melian-Cabrera. Detemplation of soft mesoporous silica nanoparticles with structural preservation. JOURNAL OF MATERIALS CHEMISTRY A. 1 - 15, pp. 4747 - 4753. 2013. ISSN 2050-7488
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 7.443 (2014)
Position of publication: 18
Format: Journal
Category: ENERGY & FUELS
Journal in the top 25%: Yes
No. of journals in the cat.: 139
- 28** I. Agirrezabal-Telleria; J. Requies; M. B. Gueemez; P. L. Arias. Pore size tuning of functionalized SBA-15 catalysts for the selective production of furfural from xylose. APPLIED CATALYSIS B-ENVIRONMENTAL. 115, pp. 169 - 178. 04/2012. ISSN 0926-3373
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 5.825 (2012)
Position of publication: 1
Format: Journal
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Journal in the top 25%: Yes
No. of journals in the cat.: 42
- 29** I. Agirrezabal-Telleria; J. Requies; M. B. Gueemez; P. L. Arias. Furfural production from xylose plus glucose feedings and simultaneous N-2-stripping. GREEN CHEMISTRY. 14 - 11, pp. 3132 - 3140. 2012. ISSN 1463-9262
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 6.828 (2012)
Position of publication: 18
Format: Journal
Category: CHEMISTRY, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 152
- 30** I. Agirrezabal-Telleria; A. Larreategui; J. Requies; M. B. Gueemez; P. L. Arias. Furfural production from xylose using sulfonic ion-exchange resins (Amberlyst) and simultaneous stripping with nitrogen. BIORESOURCE TECHNOLOGY. 102 - 16, pp. 7478 - 7485. 08/2011. ISSN 0960-8524
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 4.98 (2011)
Position of publication: 1
Format: Journal
Category: AGRICULTURAL ENGINEERING
Journal in the top 25%: Yes
No. of journals in the cat.: 12



Works submitted to national or international conferences

- 1** **Title of the work:** Effective production of pentanediols from renewable furanic molecules
Name of the conference: SECAT 2021
Date of event: 2021
- 2** **Title of the work:** Introducing sustainability and the agenda 2030 in engineering degrees through the research based learning methodology
Name of the conference: ICERI, Congreso de Innovación Docente
Date of event: 2020
- 3** **Title of the work:** Alkene Dimerization on Grafted Ni Cations at Sub-Ambient Temperatures: Mechanism, Site Requirements, and Solvation Effects By Intrapore Liquids
Name of the conference: AICHE 2019
Date of event: 2019
- 4** **Title of the work:** Activator and solvent-free Metal Organic Frameworks with defect Ru³⁺/Ru²⁺ sites for the stable dimerization of light olefins
Name of the conference: CCESC, International Symposium on the Catalysis for Clean Energy and Sustainable Chemistry
Date of event: 2018
- 5** **Title of the work:** New concepts in heterogeneous catalysis via intrapore reactant condensation
Name of the conference: 7th National Catalysis Conference Turkey
Date of event: 2018
- 6** **Title of the work:** Structure and active-site requirements for solvation effects in mesopores (MCM) and micropores (MOFs)
Name of the conference: ACS Fall Meeting
Date of event: 2018
- 7** **Title of the work:** Active, selective and stable Ni-based catalysts for alkene oligomerization
Name of the conference: NAM Meeting
City of event: United States of America
Date of event: 2017
- 8** **Title of the work:** Stabilization of active Ni site during alkene oligomerization via intrapore condensation
Name of the conference: ACS Spring Meeting
City of event: United States of America
Date of event: 2017
- 9** **Title of the work:** Stabilization of active Ni site for alkene oligomerization
Name of the conference: SECAT
City of event: Oviedo,
Date of event: 2017
- 10** **Title of the work:** Catalytic activity and reaction mechanism of bifunctional partially hydroxylated MgF₂ catalysts for the dehydration of xylose to furfural
Name of the conference: 7th International Symposium on Acid-base Catalysis



City of event: Japan
Date of event: 2013

- 11 Title of the work:** Furfural production via nitrogen-stripping using monomeric sugars from pentosan-rich biomass
Name of the conference: Catalysis for Clean Energy and Sustainable Chemistry
City of event: Madrid,
Date of event: 2012
- 12 Title of the work:** activity of highly stable arenesulfonic SBA-15 catalysts during xylose dehydration to furfural
Name of the conference: Cat4Bio conference on “Advances in Catalysis for Biomass Valorization
City of event: Greece
Date of event: 2012
- 13 Title of the work:** tuning the structure of functionalized SBA-15 catalysts for the production of furfural from xylose
Name of the conference: 7th edition of the International Conference on Environmental Catalysis
City of event: France
Date of event: 2012
- 14 Title of the work:** biogas production at pilot plant scale from organic residues
Name of the conference: GERG Academic Gas Network
City of event: Denmark
Date of event: 2011
- 15 Title of the work:** furfural N₂-stripping from simultaneous heterogeneously catalyzed reaction medium
Name of the conference: 1st Conference on Catalysis for Biorefineries
City of event: Malaga,
Date of event: 2011
- 16 Title of the work:** innovative furfural reaction and extraction systems
Name of the conference: Use of agro-forest and oily residues to produce clean transportation fuels
City of event: Madrid,
Date of event: 2011
- 17 Title of the work:** production of furfural from xylose using sulfonic ion-exchange resins
Name of the conference: Bioenergy and Biorefineries
City of event: Singapore
Date of event: 2011

Other dissemination activities

- 1 Title of the work:** Katalisi heterogeneoaren bidez, jasangarritasunaren bila
Type of event: Revista Elhuyar de divulgación
Date of event: 03/2015
- 2 Title of the work:** Biomasa + Findegiak = Biofindegiak
Type of event: Revista Ekaia de divulgación
Date of event: 18/02/2013

Agirrezabal-Telleria; Agirrezabal-Telleria; Arias.

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

Committee title: Expert CHE Panel Marie Sklodowska Curie Actions - Call 2018-2021

Affiliation entity: Comisión Europea

Type of entity: H2020

Organization of R&D activities

Title of the activity: CCESC 2018 - Catalysis for Clean Energy and Sustainable Chemistry

Type of activity: Congreso Internacional

Convening entity: Universidad del País Vasco

Type of entity: University

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Universidad de California Berkeley (EEUU)
City of entity: Berkeley, United States of America
Start-End date: 01/04/2014 - 31/03/2018 **Duration:** 3 years
Goals of the stay: Post-doctoral
- 2** **Entity:** Universidad Humboldt Berlin (Alemania)
City of entity: Berlin, Germany
Start-End date: 01/03/2012 - 30/09/2012 **Duration:** 6 months
Goals of the stay: Doctorate
Provable tasks: Predoctoral
- 3** **Entity:** Universidad de Groningen (Holanda)
Start-End date: 01/01/2008 - 30/04/2009
Goals of the stay: Máster
- 4** **Entity:** Proces Groningen BV (Holanda)
Start-End date: 01/09/2005 - 30/04/2008
Goals of the stay: Contracted



Obtained grants and scholarships

- 1** **Name of the grant:** Beca post-doctoral Marie Sklodowska Curie Individual Fellowship. Formación de personal investigador doctor y realizar una estancia de 2 años en University of California Berkeley (EEUU) y 1 año en la Universidad del País Vasco (UPV/EHU). Categoría: Investigador Contratado.
Aims: Post-doctoral
Awarding entity: Comisión Europea **Type of entity:** Organismo
Conferral date: 01/04/2015
End date: 31/03/2018
- 2** **Name of the grant:** Beca post-doctoral para la formación de personal investigador doctor y realizar una estancia en University of California Berkeley (EEUU). Categoría: Investigador Contratado.
Aims: Post-doctoral
Awarding entity: Gobierno Vasco **Type of entity:** gobierno
Conferral date: 01/04/2014
End date: 31/03/2015
- 3** **Name of the grant:** Beca post-doctoral de la UPV/EHU para la contratación de doctores recientes. Categoría: Investigador contratado.
Aims: Post-doctoral
Awarding entity: Universidad del País Vasco **Type of entity:** University
Conferral date: 01/09/2013
End date: 31/03/2014
- 4** **Name of the grant:** Beca Competitiva Pre-Doctoral del Gobierno Vasco para la formación de personal investigador. Categoría Investigador contratado.
Aims: Pre-doctoral
Awarding entity: Gobierno Vasco **Type of entity:** Gobierno
Conferral date: 01/01/2012
End date: 30/06/2013
- 5** **Name of the grant:** Beca pre-doctoral del Gobierno Vasco la realización de estancias cortas de investigación.
Aims: Pre-doctoral
Awarding entity: Gobierno Vasco **Type of entity:** Gobierno
Conferral date: 15/03/2012
End date: 30/09/2012
- 6** **Name of the grant:** Beca Competitiva Pre-Doctoral del Gobierno Vasco para la formación de personal investigador: Categoría Becario.
Aims: Pre-doctoral
Awarding entity: Gobierno Vasco **Type of entity:** Gobierno
Conferral date: 01/01/2010
End date: 31/12/2011



Scientific societies and professional associations

Name of the society: Sociedad Española de Catálisis (SECAT)

City affiliation entity: Spain

Start date: 24/05/2017

Editorial councils

Name of the editorial council: Chem Engineering MDPI

Affiliation entity: revista

Start date: 2019

Prizes, mentions and distinctions

- 1** **Description:** Award for Best Oral Speech
Awarding entity: SECAT Catalysis Conference
City awarding entity: Spain
Conferral date: 2017
- 2** **Description:** Travel award Marie Curie Alumni Association
Awarding entity: Marie Curie Alumni Association
Conferral date: 2017
- 3** **Description:** Extraordinary prize for PhD monograph
Awarding entity: Universidad del País Vasco **Type of entity:** University
City awarding entity: Spain
Conferral date: 2014
- 4** **Description:** Award for International Cum Laude PhD
Awarding entity: Gobierno Vasco **Type of entity:** Organismo
City awarding entity: Spain
Conferral date: 2013
- 5** **Description:** Award for Third Best Poster
Awarding entity: GERG Academic Gas Network
City awarding entity: Copenhagen, Denmark
Conferral date: 2011



Obtained accreditations/recognitions

- 1** **Description:** Profesor Adjunto
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** Agencia Nacional de la Calidad y Acreditación
City accrediting entity: Spain
Date of recognition: 22/05/2014
- 2** **Description:** Profesor Contratado Doctor
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** Agencia Nacional de la Calidad y Acreditación
City accrediting entity: Spain
Date of recognition: 22/05/2014
- 3** **Description:** Profesor Universidad Privada
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** Agencia Nacional de la Calidad y Acreditación
City accrediting entity: Spain
Date of recognition: 22/05/2014