



Universidad  
del País Vasco

Euskal Herriko  
Unibertsitatea

FACULTY  
OF ENGINEERING  
BILBAO  
UNIVERSITY  
OF THE BASQUE  
COUNTRY

*Advanced Manufacturing Research Group*

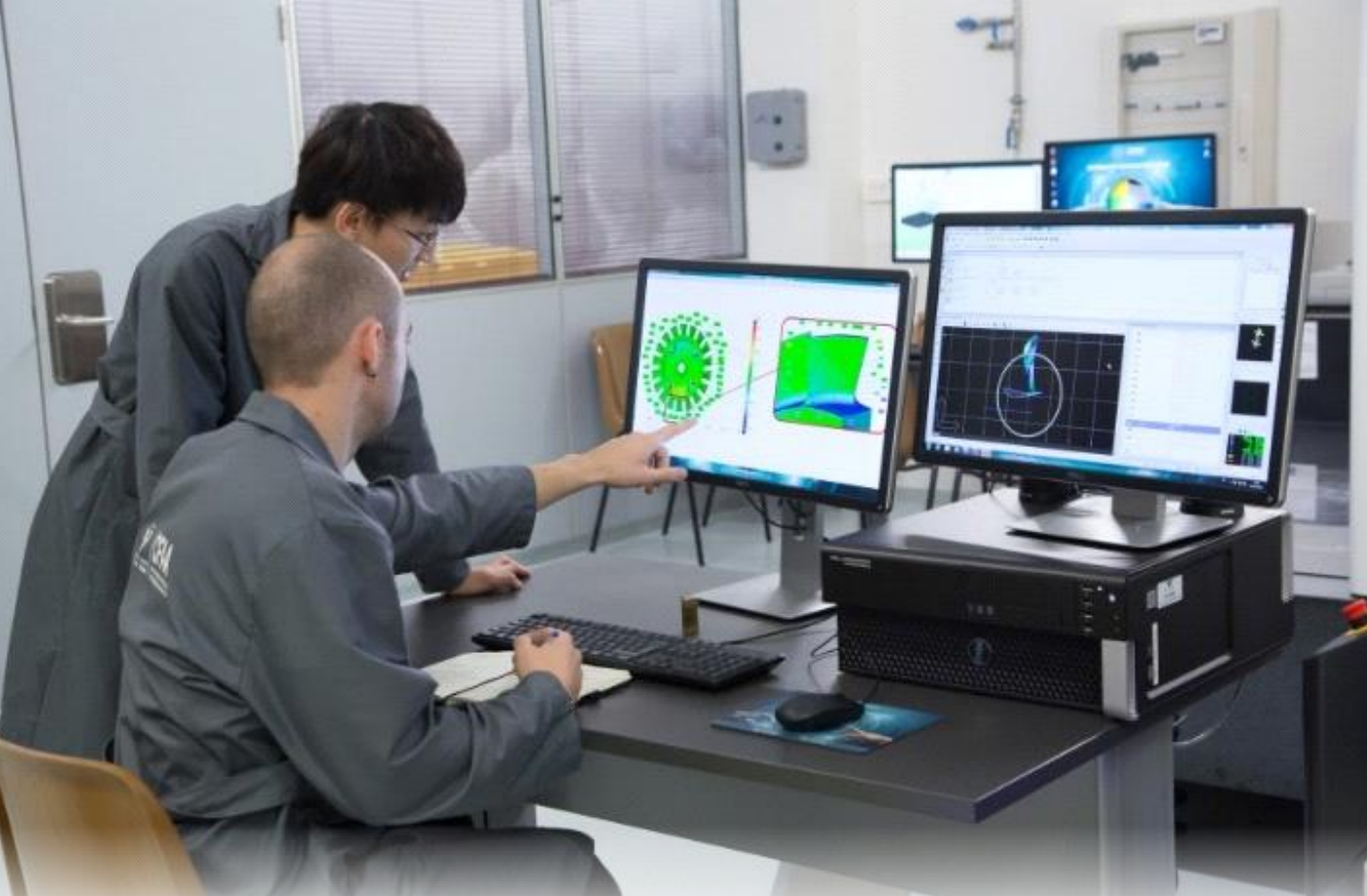
# SCIENTIFIC PRODUCTION 2017-2020



Copyright © 2021 - CFAA (UPV/EHU). All rights reserved.

# CFAA

Fabrikazio Aeronautiko Aurreratuko Zentroa  
Centro de Fabricación Avanzada Aeronáutica



# 01 ABOUT US

## The Advanced Manufacturing Research Group

The research group on Advanced Manufacturing Technologies of the University of the Basque Country (UPV/EHU) is considered of excellent level by the Basque system. The current facilities, machines, people and good partnership with companies are the results of a long history of projects, personal relations, courses and, above all, a practical view of research.

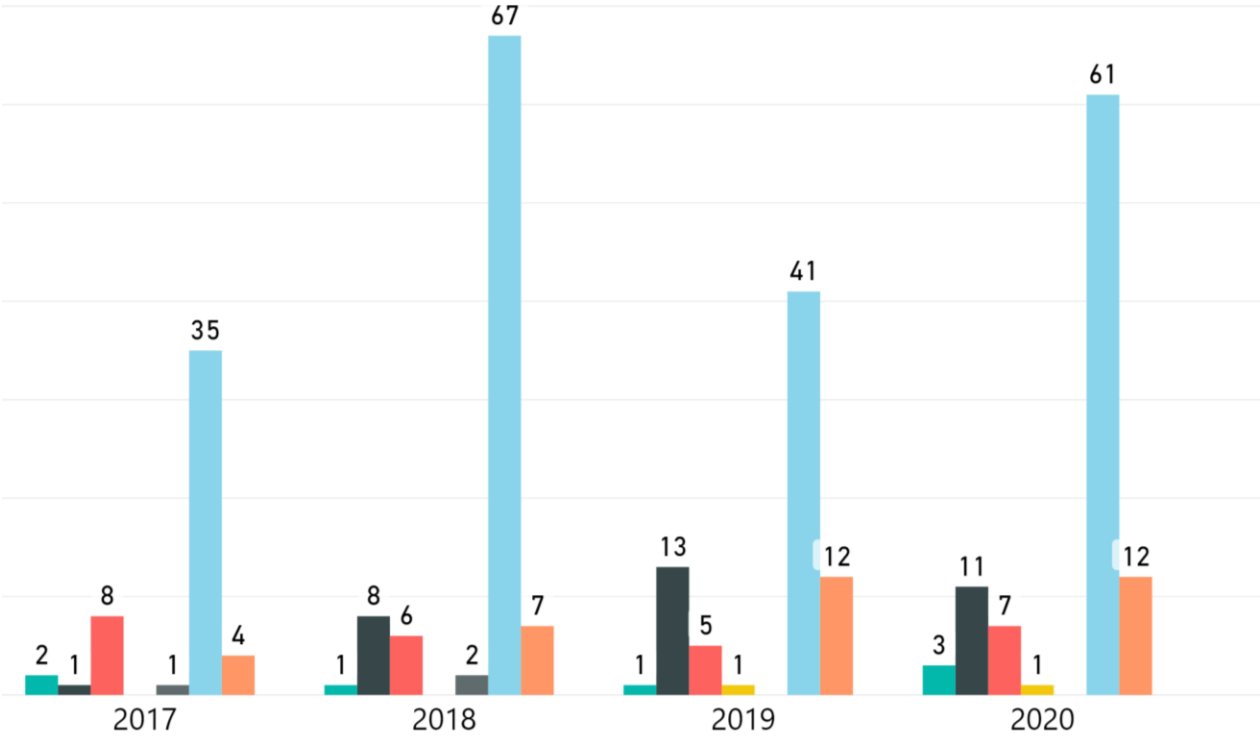
Scientific production is considered a good indicator of the research activity. In addition, the group has it as a mean to promote the best level of any research project. The balance of applicability and excellency is the hallmark of the group.

To date, the group incorporates three full professors, more than ten assistant professors, senior lecturers, lecturers, and PhD students. MSc students are also important because manufacturing is a complex matter and best students must be attracted to the task.








The Basque Country is a very industrialized region, and our group works all time thinking about serving our society and economy. Our university motto says in our old language, "Eman ta Zabal Zazu", it could be translated into "bear fruit and make it known"; that is our purpose clearly. The new center, Aeronautics Advanced Manufacturing Centre (CFAA), in addition to the good scientific work, contributes to promote the transfer of the new knowledge to Manufacturing Readiness Level projects.

# 02 PUBLICATIONS

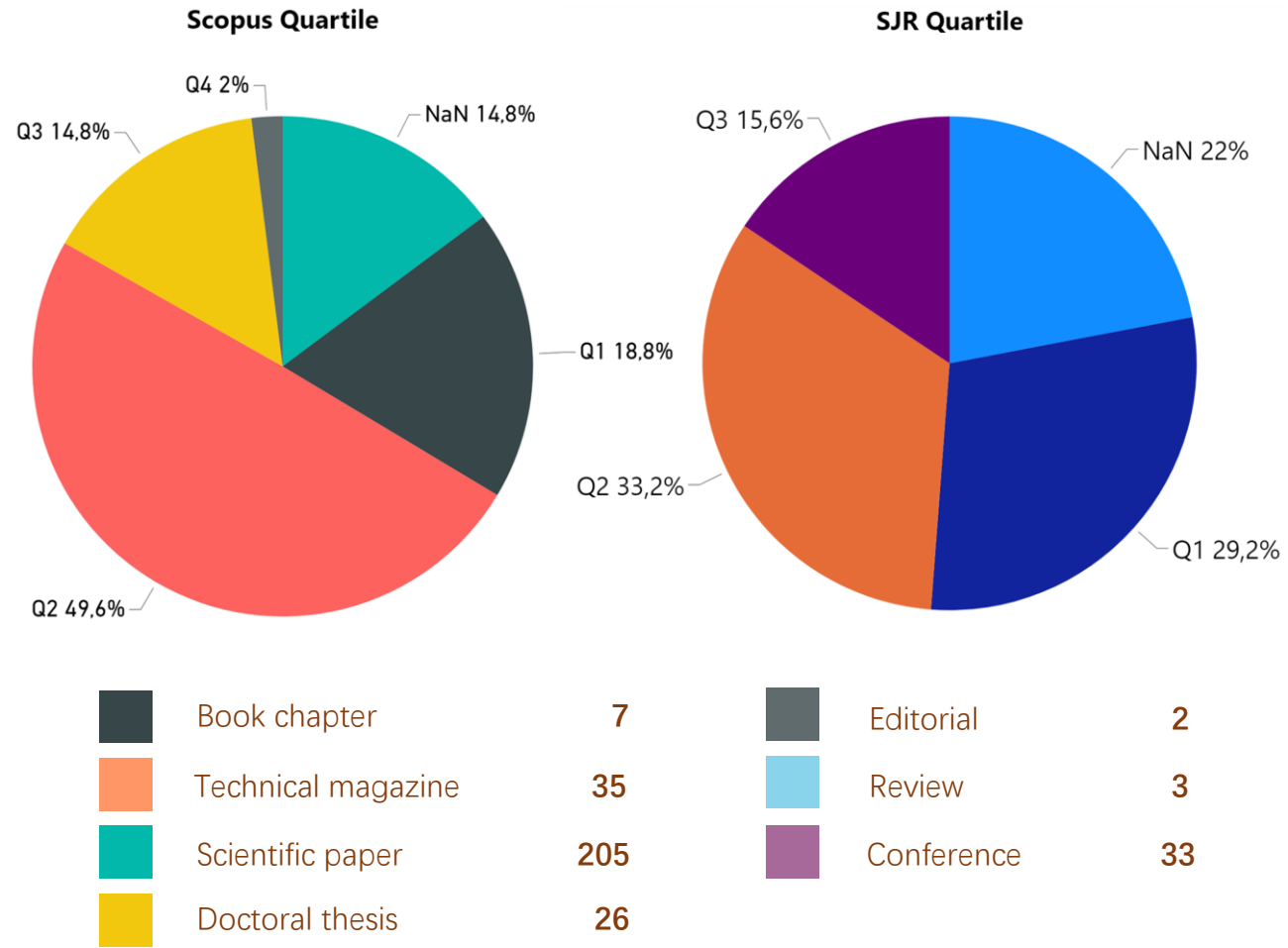
## 311 Publications (2017-2020)



### NOMENCLATURE

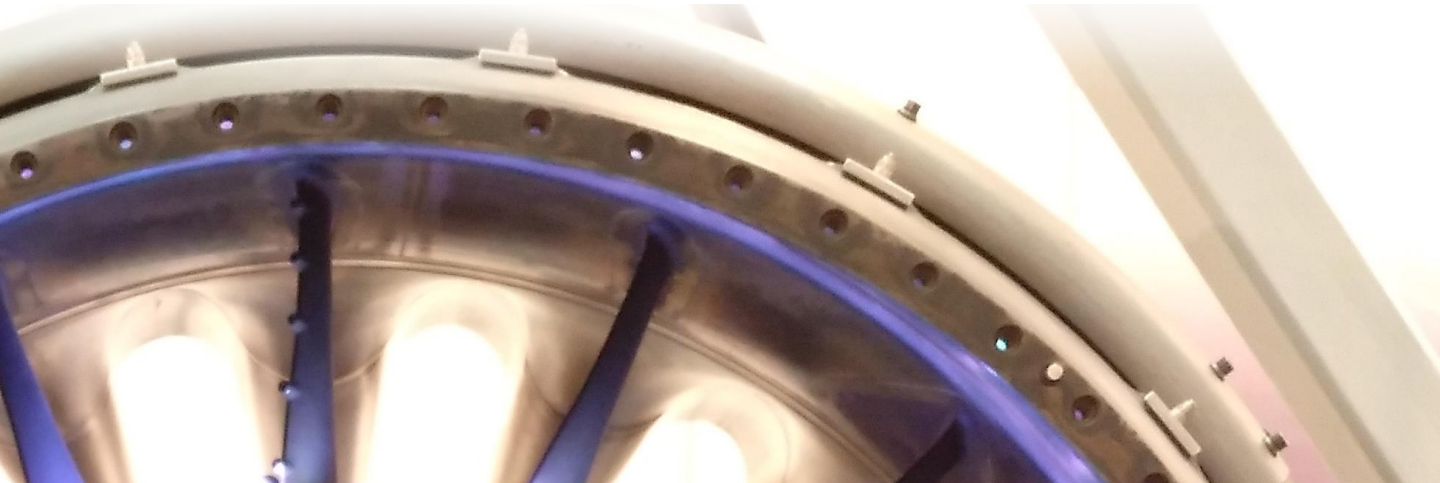
	<b>Book Chapter:</b>	Technology description in books by invitation (no conferences)
	<b>Conference :</b>	Research work sent to International Conferences
	<b>Doctoral thesis:</b>	PhD research work propose by a new doctor
	<b>Editorial:</b>	Introduction to a book, journal or special issue, about a matter
	<b>Review:</b>	State of the art of a particular technology
	<b>Scientific paper:</b>	Research work in a journal, the most important for us
	<b>Technical magazines:</b>	Articles to disseminate knowledge in technical magazines

# 03 SCIENTIFIC PRODUCTION



## INDEX

- **Scopus** is Elsevier's abstract and citation database.
- **SCImago Journal Rank (SJR)** indicator is a measure of the scientific influence of scholarly journals based on citations received by a journal.
- **Journal Citation Reports (JCR)** is an annual publication by Clarivate Analytics.

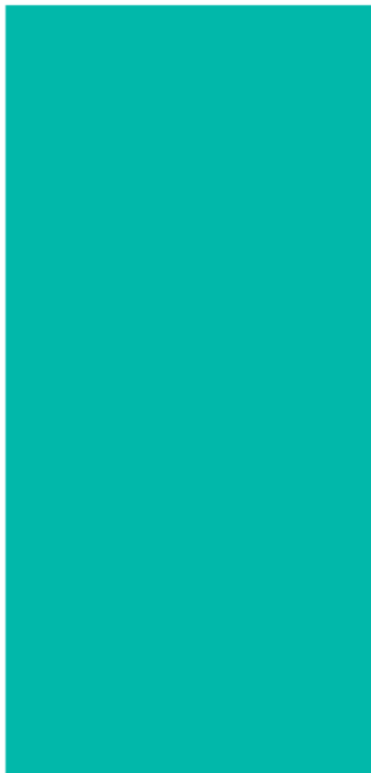






## 04 CITATIONS

1895



Scientific Paper

## 2027 Citations (2017-2020)

Citations are the number of times that our works are cited by other authors. They refer to cites in 2017-2020 to all of our works since 2000

**2027 citations in four years !**

105



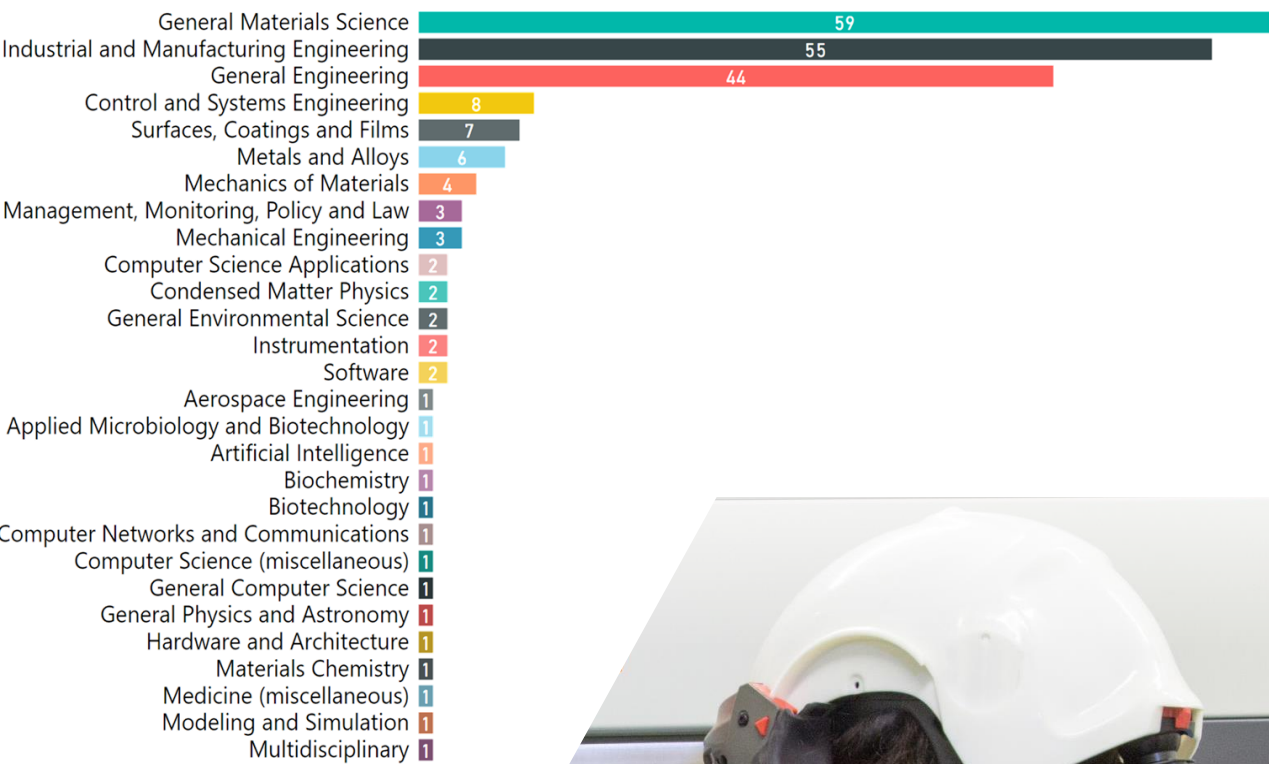
Conference contribution

26



Review

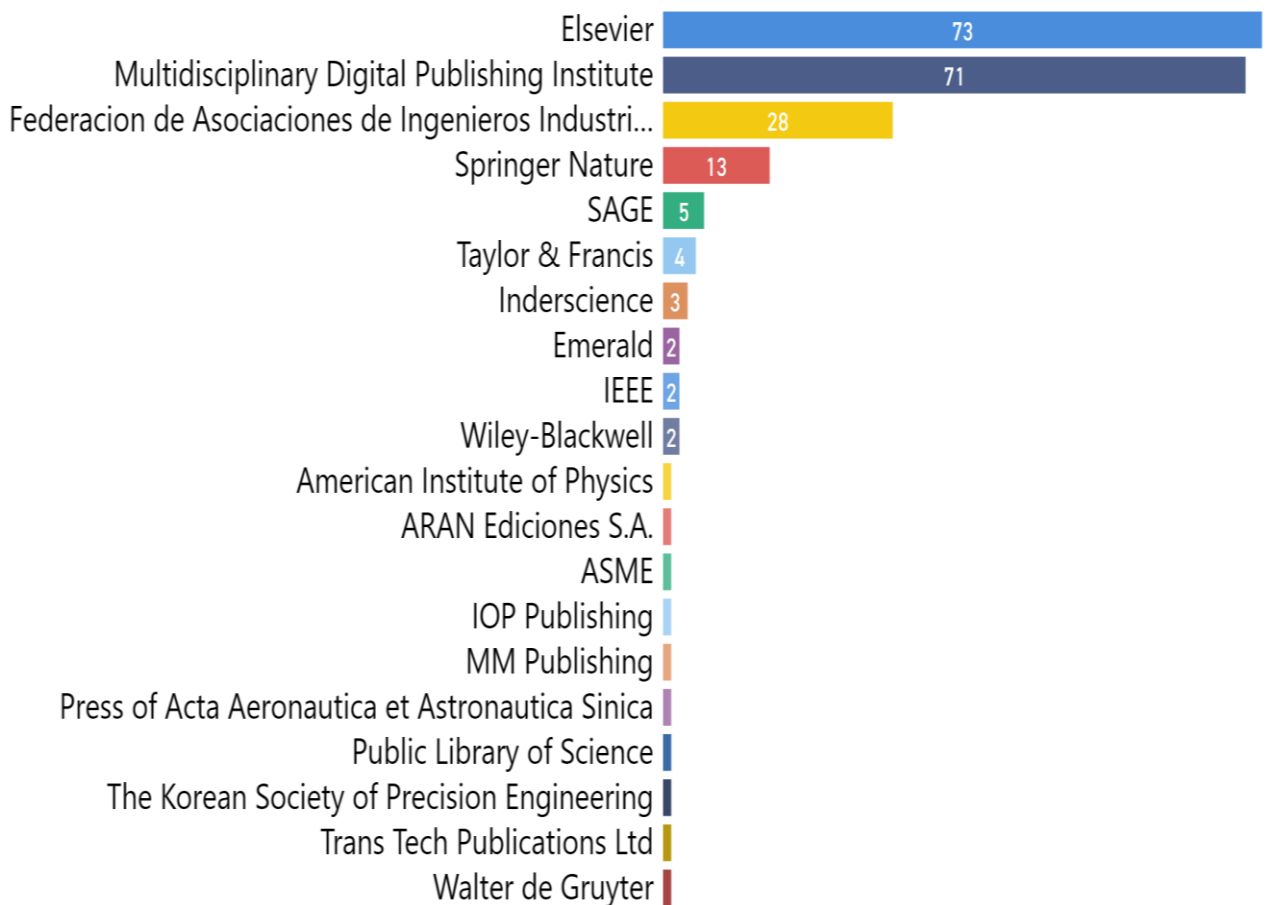
# 05 WORKS BY SUBJECT AREA







## 06 BY PUBLISHER / EDITORIAL HOUSE



# 07 RESEARCH GROUP (Alphabetical order)

## FULL PROFESSORS (DR.)

Aitzol Lamikiz  
José Antonio Sánchez  
L. Norberto López de Lacalle

## TECHNICIANS (DR.)

Adrián Rodríguez  
Izaro Ayesta  
Jon Ander Ealo  
Octavio Pereira  
Silvia Martínez

## TECHNICIANS (ENG.)

Iker Cerrillo  
Roberto Polvorosa

## SENIOR LECTURERS

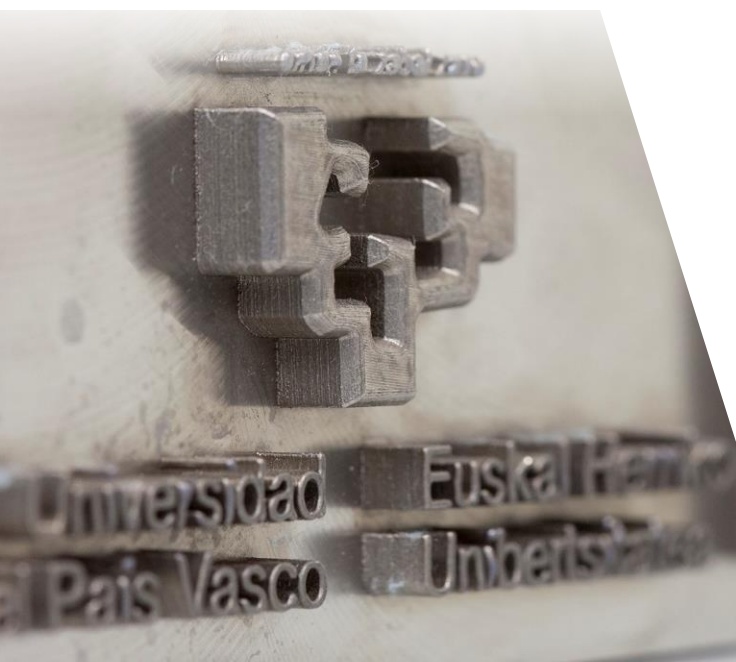
Aitor Beranoagirre  
Asier Fernández  
Haizea González  
Leire Godino

## ASSISTANT PROFESSORS (DR.)

Ainhoa Celaya  
Amaia Calleja  
Borja Izquierdo  
Eneko Ukar  
Gorka Urbikain  
Helena Fernandes  
Iñigo Elósegui  
Iñigo Pombo  
Jesús María Hernández  
Jon Iñaki Arrizubieta  
Naiara Ortega  
Soraya Plaza

## RESEARCHERS (ENG., PHD STUDENTS)

Aitor Irazabal  
Alejandro Pascual  
Aner Jimeno  
Ander del Olmo  
Exequiel Ruíz  
Felipe Marín  
Francisco Javier Amigo  
Diego Garcia  
Gaizka Escudero  
Gonzalo Martínez de Pissón  
Ibon Holgado  
Jon Ander Iturrioz  
José David González  
Jun Wang  
Lander Iglesias  
Leonardo Sastoque  
Marta Ostolaza  
Mikel Gonzalez  
Pablo Fernández  
Sara Sendino





# 07 GROUP H-INDEX

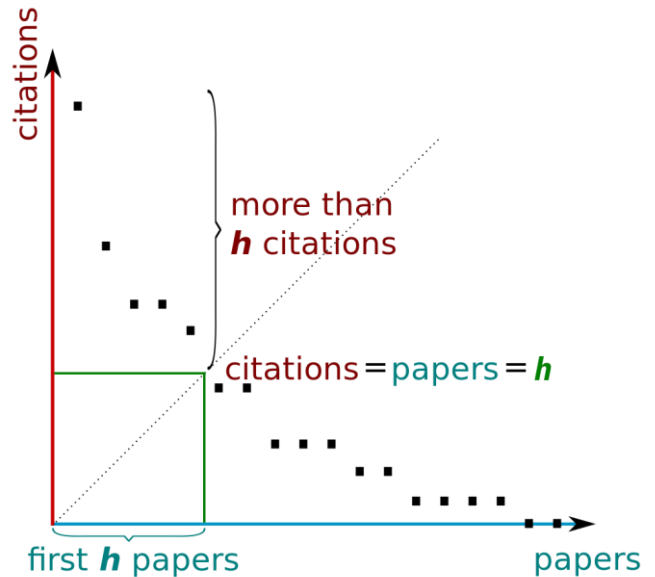
The **h-index** is an author-level metric that measures both, the productivity and citation impact of the publications.

## H-INDEX

Google scholar  $\approx 60$

Scopus  $\approx 47$

Publons  $\approx 46$



Contents lists available at ScienceDirect

International Journal of Machine Tools and Manufacture

journal homepage: [www.elsevier.com/locate/ijmactool](http://www.elsevier.com/locate/ijmactool)



Hardness, grainsize and  
Deposition of AISI 304 st

Jon Iñaki Arrizubieta<sup>a,\*</sup>, Aitzol

<sup>a</sup> Department of Mechanical Engineering, University of  
<sup>b</sup> Tecnalia, Industry and Transport Division, Parque tec



Available online at [www.sciencedirect.com](http://www.sciencedirect.com)

jmr&t

Journal of Materials Research and Technology

[www.jmrt.com.br](http://www.jmrt.com.br)



## Original Article

### CO<sub>2</sub> cryogenic and tool wear

Octavio Pereira<sup>a,\*</sup>, Ai  
Asier Fernández-Vald

<sup>a</sup> CFAA, University of the Basque

<sup>b</sup> Department of Mechanical Engi



Contents lists available at ScienceDirect

Surface & Coatings Technology

journal homepage: [www.elsevier.com/locate/surfcoat](http://www.elsevier.com/locate/surfcoat)



Joining metrics enhancement when combining FSW and ball-burnishing in a 2050 aluminium alloy

A.J. Sánchez Egea<sup>a,b,\*</sup>, A. Rodríguez<sup>a</sup>, D. Celentano<sup>b</sup>, A. Calleja<sup>c</sup>, L.N. López de Lacalle<sup>a</sup>

<sup>a</sup> Department of Mechanical Engineering, Aeronautics Advanced Manufacturing Center (CFAA), Faculty of Engineering of Bilbao, Alameda de Urquijo s/n, 48013 Bilbao, Spain

<sup>b</sup> Department of Mechanical and Metallurgical Engineering, Pontificia Universidad Católica de Chile, Av. Vicuña Mackenna 4860, 7820436 Region Metropolitana, Chile

<sup>c</sup> Department of Mechanical Engineering, Faculty of Engineering of Vitoria-Gasteiz, Nieves Cano, 12, 01006 Vitoria-Gasteiz, Spain



**Phone:**

+34 94 601 4216

**Email:**

[cfaa2015@ehu.eus](mailto:cfaa2015@ehu.eus)

**Address:**

Department of Mechanical Engineering  
University of the Basque Country (UP/EHU)  
Faculty of Engineering Bilbao  
Plaza Torres Quevedo s/n 48013 Bilbao

