

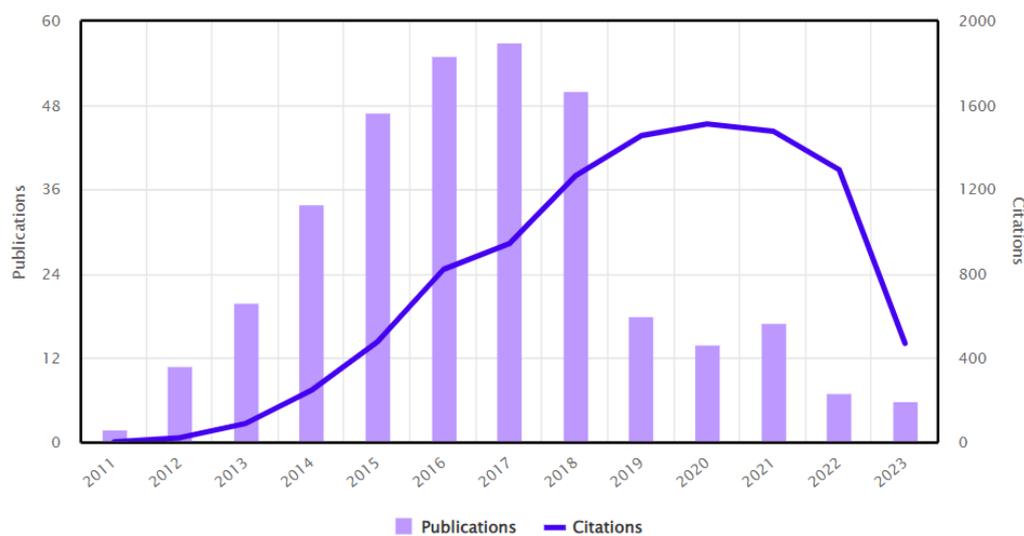
# CURRICULUM VITAE

## Personal Information

Name and surname: Antonio Bauzá Riera  
ORCID: 0000-0002-5793-781X  
SCOPUS ID: 37032758600  
Web of Science Researcher ID: J-6876-2013

## General indicators of quality of scientific production (02/06/2023 – Web of Science)

Times Cited and Publications Over Time



Total number of publications: 338 (Including **NatCommun**, **JACS**, **Angew.Chem.Int.Ed**, **Chem.Commun**, **Coord.Chem.Rev.**, **Chem.Sci.**), **5 book chapters** and **5 review articles**.

Total number of citations: **10,077**

*h*-index: **52**

## Key publications

1. Structural predictions of protein–DNA binding: MELD-DNA. R. Esmaeeli, A. Bauzá, A. Perez, **Nucleic Acids Res.** 2023, 51, 1625-1636.
2. L. Lang, A. Frontera, A. Perez, A. Bauzá Computational Study of Driving Forces in ATSP, PDIQ, and P53 Peptide Binding: C=O...C=O Tetrel Bonding Interactions at Work. **J. Chem. Inf. Model.** 2023, 63, 3018-3029.
3. R. Esmaeeli, M. N. Piña, A. Frontera, A. Perez, A. Bauzá. Importance of Anion– $\pi$  Interactions in RNA GAAA and GGAG Tetraloops: A Combined MD and QM Study. **J. Chem. Theory Comput.** 2021, 17, 6624-6633.
4. H. S. Biswal, A. K. Sahu, A. Frontera, A. Bauzá. Spodium Bonds in Biological Systems: Expanding the Role of Zn in Protein Structure and Function. **J. Chem. Inf. Model.** 2021, 61, 3945-3954.
5. Spodium bonds: noncovalent interactions involving group 12 of elements. A. Bauzá, I. Alkorta, J. Elguero, T. J. Mooibroek, A. Frontera, **Angew. Chem. Int. Ed.** 2020, 59, 17482-17487.
6. Halogen bonds in Protein-Nucleic Acid recognition. A. Frontera, A. Bauzá, **J. Chem. Theory Comput.** 2020, 16, 4744-4752. **Front cover picture**.
7. A Strategy to Synthesize Molecular Knots and Links Using the Hydrophobic Effect. F. Cougnon, K. Caprice, M. Pupier, A. Bauzá, A. Frontera, **J. Am. Chem. Soc.** 2018, 140, 12442-12450.

8. Remote Control of Anion- $\pi$  Catalysis on Fullerene-Centered Catalytic Triads. J. Lopez-Andarias, A. Bauzá, N. Sakai, A. Frontera, S. Matile, **Angew. Chem. Int. Ed.** 2018, 57, 10883-10887. **VIP article, Front cover picture.**
9. Synergistic Anion-( $\pi$ ) $n$ - $\pi$  Catalysis on  $\pi$ -Stacked Foldamers. A. Bornhof, A. Bauzá, A. Aster, M. Pupier, A. Frontera, E. Vauthey, N. Sakai, S. Matile, **J. Am. Chem. Soc.** 2018, 140, 4884-4892.
10. S...Sn Tetrel Bonds in the Activation of Peroxisome Proliferator-Activated Receptors (PPARs) by Organotin Molecules. A. Frontera, A. Bauzá, **Chem. Eur. J.** 2018, 24, 16582-16587. **Front cover picture.**
11. A. Frontera, A. Bauzá. Regium- $\pi$  bonds: An Unexplored Link between Noble Metal Nanoparticles and Aromatic Surfaces. **Chem. Eur. J.** 2018, 24, 7228-7234.
12. NO<sub>3</sub><sup>-</sup> anions can act as Lewis acid in the solid state. A. Bauza, A. Frontera, T. Mooibroek, **Nat. Commun.** 2017, 8, 14522.

### Research projects

**Project title:** Diseño y desarrollo de materiales supramoleculares funcionales (FUSUMA)  
**Program type:** Programa Estatal de Fomento de la Investigación Científica y Técnica de Retos  
**Funding administration:** Ministerio de Ciencia e Innovación  
**Project ID:** PID2020-115637GB-I00 **Total funds:** 121.000,00 **Duration, from:** 2021 **to:** 2024  
**Principal Investigators:** Antonio Frontera Beccaria, M<sup>a</sup> Carmen Rotger Pons  
**Type of participation:** Investigator  
**Number of participants:** 11

**Project title:** Estudios relativos a la química supramolecular de sistemas aromáticos y de base esquamida.

**Program type:** Programa Estatal de Fomento de la Investigación Científica y Técnica de Retos  
**Funding administration:** Ministerio de Economía y Competitividad (MINECO)  
**Project ID:** CTQ2017-85821-R **Total funds:** 105.270,00 **Duration, from:** 2017 **to:** 2020  
**Principal Investigators:** Antonio Frontera Beccaria, M<sup>a</sup> Carmen Rotger Pons  
**Type of participation:** Investigator  
**Number of participants:** 11

**Project title:** Estudios de química supramolecular fundamental y aplicada con orientación biomédica.

**Abbreviation:** SUPRABIO2014

**Program type:** Programa Estatal de Fomento de la Investigación Científica y Técnica de Excelencia  
**Funding administration:** Ministerio de Economía y Competitividad (MINECO)  
**Project ID:** CTQ2014-57393-C2-1-P **Total funds:** 108.900,00 **Duration, from:** 2015 **to:** 2017  
**Principal Investigators:** Antonio Costa Torres; Antonio Frontera Beccaria  
**Type of participation:** Investigator  
**Number of participants:** 11

**Project title:** Estudios relativos a la química supramolecular de sistemas aromáticos y de base esquamida: aplicaciones biológicas y tecnológicas

**Program type:** Programa Nacional de Investigación Fundamental No Orientada  
**Funding administration:** Ministerio de Ciencia e Innovación  
**Project ID:** CTQ2011-27152 **Total funds:** 199.650,00 **Duration, from:** 2012 **to:** 2014  
**Principal Investigators:** Antonio Costa Torres  
**Type of participation:** Investigator  
**Number of participants:** 12

**Project title:** Supramolecular Chemistry Applied to the Design, Synthesis and Evaluation of Bioactive Compounds of Antiinflammatory, Antitumour or Antiparasitic Action.

**Program type:** CONSOLIDER-Ingenio 2010  
**Funding administration:** Ministerio de Ciencia e Innovación

**Project ID:** CSD2010-00065 **Total funds:** 434.811,20 **Duration, from:** 2011 **to:** 2016

**Principal Investigators:** Antonio Costa Torres

**Type of participation:** Investigator

**Number of participants:** 9

#### **Oral communications in conferences**

XII Simposio de Investigadores Jóvenes Químicos RSEQ-Sigma Aldrich (Barcelona, 2015)

5th Lilly Chemistry Symposium "Chemistry, The Central Science" (Madrid, 2016)

VIII REQOMED -Reunión de Química Orgánica del Mediterráneo- (Palma de Mallorca, 2017)

ACS National Meeting (Orlando-USA, 2019)

IX REQOMED -Reunión de Química Orgánica del Mediterráneo- (Murcia, 2019)

2º SUPRAMAT meeting (Palma de Mallorca, 2022)

ICNI 22 – International Conference on Non Covalent Interactions (Strasbourg, 2022)

XXXIX Reunión Bienal de Química (Zaragoza, 2023)

#### **Teaching activities involving postgraduate students**

Postgraduate Mentoring, Universidad de Florida, Gainesville (USA), 2019

#### **Awards, fellowships and additional merits**

XIV Premios Lilly de investigación (2016)

Reaxys PhD prize finalist (2017)

Research fellowship, University of the Balearic Islands, Duration: From: 01/05/2012, To: 30/09/2012

International journal front covers: Angew.Chem.Int.Ed, J.Chem.TheoryComput., Chem.Eur.J.,

CrystEngComm.

#### **Conference organizations**

Organizing committee member of the VIII REQOMED -Reunión de Química Orgánica del Mediterráneo-, University of the Balearic Islands, Spain, 2017.

#### **Reviewer activity**

Reviewer of crystallographic and physical chemistry journals such as CrystEngComm, Coord.Chem.Rev., Phys.Chem.Chem.Phys. and J. Phys. Chem. among others.

#### **Editor activity**

Associate editor of *Crystals* ( IF: 2.670) and *International Journal of Molecular Sciences* (IF: 6.208)