

Curriculum Vitae 2022

Name **NÚRIA ALIAGA-ALCALDE**
Birth July 28th, 1973
Researcher ID H-5886-2011
ORCID <http://orcid.org/0000-0003-1080-3862>
URL <http://www.icrea.cat/Web/ScientificStaff/Nuria-Aliaga-Alcalde-429>
<http://departments.icmab.es/funnanosurf/>
<http://icmab.es/staff/detail/986>
<http://www.academia-net.org/alias/Profil/Prof-Nuria-Aliaga-Alcalde/1199395>

Education

Apr 2003 **Ph. D. Program in Chemistry**, Indiana University, Bloomington, IN, USA
Title: “*Synthesis and study of tetranuclear manganese single-molecule magnets*”

Current Positions

Sept 2012 – Present **ICREA Research Professor** (Catalan Institution for Research and Advanced Studies) at the ICMAB-CSIC (Institute of Materials Science of Barcelona) Bellaterra, Spain
Sept 2014 – Present **Group Leader of Functional Nanomaterials and Surfaces group** (FunNanoSurf), ICMAB, Bellaterra, Spain
Sept 2014 – Present **Master Professor** at the University Autònoma of Barcelona (UAB) – Master Course: NiNAV (Advanced Nanoscience and Nanotechnology course)

Previous Positions

Sept 2010 – Aug 2012 **Associate Instructor** at the University of Barcelona (UB), Spain
Sept 2007 – Aug 2012 **ICREA Research Junior** at the UB, Barcelona, Spain
Oct 2005 – Aug 2007 **Postdoctoral Research Associate** at Leiden Institute of Chemistry, The Netherlands
May 2003 – Aug 2005 **Postdoctoral Research Associate** at the Max-Planck Institute (MPI) for Bioinorganic Chemistry, Germany

Fellowships & Awards

Feb 2019 – Jul 2019 **Salvador de Madariaga grant** for a research stay at the Delft University of Technology, The Netherlands
May 2010 **Atomium Culture finalist**, Dissemination European Research (D.E.R.) Project (chemistry area) <http://atomiumculture.eu/node/420>
Feb 2009 – Mar 2009 **AGAUR grant** for a research stay at the MPI for Bioinorganic Chemistry, Germany
May 2003 – Aug 2005 **Postdoctoral fellowship** at the MPI for Bioinorganic Chemistry, Germany

Grants as Principal Investigator

Jun 2020 – Dec 2023 **“Screening of curcuminoid-based systems for the achievement of sensor materials (CCMoids4sense)”**
Financing agency: MICIU (ID: PID2019-108794GB-I00)
Budget: 217,800 €

Jan 2020 – Sept 2020 **“Novel optimized interfaces toward molecular-based responsive devices”**
Financing agency: CSIC, Ayudas Extraordinarias para la Preparación de Proyectos 2019
Budget: 18,358 €

Mar 2017 – Feb 2022 **“Efficient electronic transport at room temperature by T-shaped molecules in graphene-based chemically modified three-terminal nanodevices”**
Financing agency: European Research Council (ID: Tmol4TRANS)
Budget: 1,998,879 €

- Jan 2017 – Sept 2021 **FUNmatApp Group**
Financing agency: Generalitat de Catalunya, (AGAUR, Grup Consolidat, ID: 2017 SGR 1277)
Budget: 20,000 €
- Jan 2017 – Dec 2018 **“Estudio de nuevos sistemas curcuminoides en superficies funcionalizadas para la creación de transistores moleculares”**
Financing agency: CSIC, I-COOP+2016 (ID: COOPA20162)
Budget: 11,000 €
- Jan 2016 – Dec 2018 **“Preparation of multifunctional hybrids based on curcuminoid and porphyrin systems”**
Financing agency: CSIC (ID: 201660E014)
Budget: 57,000 €
- Jan 2014 – Dec 2017 **“Supramolecular Chirality in Low Dimensions and Charge Transport: Preparation of Functional Chiral Organic Materials”**
Financing agency: MINECO (ID: MAT2013-47869-C4-2-P)
Budget: 108,653.06 €

Grants/Projects as Principal Investigator, ICREA Junior Period

- Dec 2011 – Dec 2012 **“Design and study of multifunctional systems containing Schiff bases, curcuminoid ligands and 4f metals towards the development of nano-devices”**
Financing agency: AECID (ID: AP/040924/11)
Budget: 26,000 €
- Feb 2009 – Mar 2009 **“Development of novel nanomolecular aggregates with multi-functional properties”**
Financing agency: AGAUR, Generalitat de Catalunya (ID: 2008 BE1 00463)
Budget: 4,400 €
PI: Dr. Núria Aliaga-Alcalde

Grants as co-Principal Investigator

- Dec 2016 – Dec 2019 **“Novel optimized interfaces toward molecular-based responsive devices”**
Financing agency: MINECO (ID: MAT2016-77852-C2-1-R)
Budget: 242,000 €
- Jan 2017 – Dec 2019 **“Curcuminoid-MOF-based systems to control the electronic response by reliable microscaled hybrid transistors obtained using sustainable CO₂ methods”**
Financing agency: ICMA-B-CSIC, Severo Ochoa (ID: FUNMAT-FIP-2016)
Budget: 70,000 €

Additional Participation in Grants/Projects

- Nov 2019 – Dec 2021 *“Ciencia Molecular sobre Superficies: Síntesis y Funcionalidad”*
Financing agency: MICIU (OSMolSis, RED2018-102833-T)
Budget: 30,000 €
PI: Prof. Jose Ignacio Pascual Chico (ICREA Prof. N. Aliaga-Alcalde: Member of the network and leader of her team, total teams: 10)
- Jan 2016 – Dec 2020 *“Functional Molecular Materials based on Curcuminoid Ligands”*
Financing agency: Fondecyt, Minister of Education of the Government of Chile (ID: 1161775)
Budget: 200,000 €
PI: Dr. Mònica Soler (ICREA Prof. N. Aliaga-Alcalde: International collaborator)
- Jan 2015 – Dec 2017 *“Compuestos de coordinación de lantánidos con ligandos fluorescentes tipo chalcona: estudio de sus propiedades ópticas y magnéticas”*
Financing agency: UNAM, Universidad Nacional Autónoma de México, UNAM-DGAPA-PAPIIT IN222615

Budget: 30,000 €
PI: Dr. Laura Gasque (ICREA Prof. N. Aliaga-Alcalde: International collaborator)

Jan 2011 – May 2016 “Synthesis and characterization of polynuclear metal complexes containing dendritic or dendronic ligands as single-molecule magnets”
Financing agency: Fondecyt, Minister of Education of the Government of Chile (ID: 1110206)
Budget: 157,000 €
PI: Mònica Soler (ICREA Prof. N. Aliaga-Alcalde: International collaborator)

Dec 2012 – Dec 2015 “Molecules, polymers and functional nanostructures based on coordination chemistry: design, preparation and study”
Financing agency: MINECO (Ref. CTQ2012-32247/BQU)
Budget: 184,860 €
PI: Dr. Guillem Aromí (ICREA Prof. N. Aliaga-Alcalde: Subproject coordinator)

Additional Participation in Grants/Projects, ICREA Junior Period

Dec 2009 – Dec 2012 “Synthesis and physico-chemical studies of molecule-based functional materials”
Financing agency: MICINN (Ref. CTQ2009-06959/BQU)
Budget: 136,500 €
PI: Dr. Guillem Aromí

Jan 2008 – Dec 2010 “Evaluación de compuestos de coordinación de cobre como catalizadores biomiméticos”
Financing agency: UNAM, Universidad Nacional Autónoma de México, UNAM-DGAPA-PAPIIT 210509
Budget: 40,000 €
PI: Dr. Laura Gasque (Dr. N. Aliaga-Alcalde: International collaborator)

Sep 2007 – Dec 2009 “Interaccions magnètiques i magnetisme molecular”
Financing agency: CIRI-Comissió Interdepartamental de Recerca i Innovació Tecnològica de la Generalitat de Catalunya (CIRIT)
Budget: 42,000 €
PI: Dr. Joan Ribas Gispert

Participation in technology/knowledge transfer activities and exploitation of results

Feb 2022 Patent application filed out, application number: P202230143 (Ref. Number: ES1641.1728, 22/02/2022).
Title: Dispositivo de sublimación por vacío
Owner entity: Consejo Superior de Investigaciones Científicas (CSIC)
Authors: Daniel Herrera-Miranda, Arántzazu González-Campo and Núria Aliaga-Alcalde with ownership percentage of 33% for the three members

<https://www.icrea.cat/security/files/researchers/patents/vacuum-sublimation-v.pdf>

<https://www.icrea.cat/security/files/researchers/patents/leaflet-af-012-2022-03-30.pdf>

Stays of Research

Feb 2019 – Jul 2019 Research stay at Delft University of Technology, Kavli Institute of Nanoscience, in the group of collaborator Prof. Herre van der Zant, by means of a Salvador de Madariaga grant

Feb 2018 – Mar 2018 Research stays as external collaborator at different periods at the Universidad de Chile –
Oct 2015 – Oct 2015 Departamento de Ingeniería Química, Biotecnología y Materiales. Facultad de Ciencias
Sept 2014 – Oct 2014 Físicas y Matemáticas, in the group of collaborator Dr. Mònica Soler, by means of Chilean Fondecyt projects (IDs: 1161775 and 1110206)

Jul 2012 – Jul 2012

Research Stay at the University of Assiut by means of an AECID project

Stay of Research, ICREA Junior Period

Feb 2009 – Mar 2009

Research stay at the MPI for Bioinorganic Chemistry by means of an AGAUR grant

Staff Supervision

Mar 2019 – Jun 2021

Project Manager

- Dr. Beltzane Gracia-Cirera, Project Tmol4TRANS

Postdoctoral Associates

Oct 2014 – Present

- Dr. Rossella Zaffino, ICMAB-CSIC, Project Tmol4TRANS

Mar 2020 – Present

- Dr. Daniel Herrera-Miranda, ICMAB-CSIC, Project Tmol4TRANS

Jun 2020 – Dec 2020

- Dr. David Limón-Magaña, ICMAB-CSIC, ID: 2017 SGR 1277 (AGAUR)

Sept 2014 – Jan 2019

- Dr. Arántzazu González-Campo, ICMAB-CSIC, Project Tmol4TRANS

Ph. D. Students (theses in progress)

Feb 2022 – Present

- Aldo Campos Olguin (co-director: Dr. Mònica Soler), Beca Doctorado Nacional ANID (21221615, Doctorado en Química, Universidad de Chile)

Title: *“Diseño y síntesis de polímeros de coordinación a partir de curcuminoides”*

Oct 2020 – Present

- Joseline Iribarra-Araya (co-director: Dr. Mònica Soler), Conecyt fellowship (Doctorado en el extranjero, beca Chile 2019”, 72200500)

Title: *“Design of 2D materials based on porphyrazines and derivatives with sensor properties”*

Feb 2020 – Present

- Raquel Gimeno-Muñoz (co-director: Dr. Arántzazu González-Campo), Project Tmol4TRANS

Title: *“Design of new T-shaped Curcuminoid systems and deposition studies for the creation of sensors”*

Oct 2018 – Present

- Teresa Cardona-Lamarca (co-director: Dr. Arántzazu González-Campo), Project Tmol4TRANS

Title: *“Curcuminoid-based materials toward their use as active components in three-terminal devices”*

Feb 2018 – Present

- Daniel Riba-López (co-director: Dr. Arántzazu González-Campo), Project Tmol4TRANS

Title: *“Curcuminoids as active elements in molecular electronic devices”*

Ph. D. Student (theses defended)

Oct 22th 2021

- Laura Rodríguez-Cid (co-director: Dr. Concepción Domingo-Pascual), Projects: FUNMAT-FIP-2016 & Tmol4TRANS

Title: *“Curcuminoid-MOF-based systems to control the electronic response by reliable microscaled hybrid transistors obtained using sustainable CO₂ methods”*

Jul 20th 2018

- Dr. Raúl Díaz-Torres

Title: *“Synthesis, characterization and deposition on surfaces of curcuminoid-based systems”, UB/ICMAB-CSIC*

Jul 17th 2018

- Dr. Wenjie Qian

Title: *“Preparation and processing of molecular materials with optoelectronic properties”, UAB/ICMAB-CSIC*

Sept 30th 2016

- Dr. Cristina Oliveras-González (co-director: Prof. David B. Amabilino)

Title: *“Self-assembly of functional chromophores into chiral nanomaterials”, UAB/ICMAB-CSIC*

Master Students

Jul 2022

- Marc Surós i Roman (UB, co-director: Dr. Arántzazu González-Campo)

Title: *“Synthesis, processing and electronic studies of curcuminoid-based 2D materials”*

Jul 2021

- Esteve Ribas-Saurí (UAB, co-director: Dr. Arántzazu González-Campo)

Title: *“Design of 2D organic materials for sensing applications”*

- Jul 2019 ■ Raquel Gimeno-Muñoz (UB, co-director: Dr. Arántzazu González-Campo)
Title: “*Disseny de nous curcuminoides amb grups donadors/acceptors i estudi de la seva immobilització en superfície*”
- Jan 2018 ■ Jesse Ferreira da Silva (University of Southampton, UK)
Title: “*The synthesis and characterization of curcumin derivatives for use in single molecule break junctions*”
- Jan 2018 ■ Joshua Le Brocq (University of Southampton, UK, co-director: Dr. Arántzazu González-Campo)
Title: “*An Investigation of the problems of synthesizing a hydrosilylated curcuminoid capable of chemisorption to active silica surfaces*”
- Jul 2013 ■ Raúl Díaz-Torres
Title: “*Study of multifunctional systems containing curcuminoid ligands and 3d/4f Metals*”, UB

Staff Supervision, ICREA Junior Period

- Feb 2011 – May 2012 **Postdoctoral Associate**
■ Dr. Melita Menelaou, UB
- Apr 2010 – Jun 2010 **Master Student Exchange-Collaboration**
■ Inés Monte-Pérez, from UNAM, México
- Apr 2009 – Jun 2009 **Erasmus & Granted Students**
■ Coralie Soud, from University Paul Cezanne Aix-Marseille III, France
■ Coral Herranz-Lancho, UB

Teaching/Training

- Sept 2014 – Present **Master Professor** at the UAB. Course: *Advanced Nanoscience and Nanotechnology*
Topics: Molecular Magnetism – Molecular Electronics – Metal Organic Frameworks
- Jan 2014 – Present **Supervisor** of last year students from the UB/UAB (TFGs, biannual work in a scientific project):
 ■ Víctor Riu Molinero (2020-2021, in progress, UAB)
 ■ Àlex Pérez Castro (2019-2020, Chemistry, UAB)
 ■ Marc Surós i Roman (2019-2020, Chemistry, UAB)
 ■ Raquel Gimeno-Muñoz (2017-2018, Chemistry, UB)
 ■ Davana Krasimirova Zaharieva (2016-2017, Chemistry, UAB)
 ■ Xavier Domingo-Onarias (2016-2017, Chemistry, UB)
 ■ Oriol Torrecilla (2016, Nanoscience & Nanotechnology, UAB)
 ■ Enric Íñiguez (TFG, 2016-2017, Nanoscience & Nanotechnology, UAB)
 ■ Carles Ràfols (TFG, 2016-17, Nanoscience & Nanotechnology, UAB)
 ■ Sònia Fornés (TFG, 2015-16, Chemistry, UB)
 ■ Víctor Leiva (TFG, 2015-2016, Physics, UAB)
 ■ Guifré Parera (TFG, 2014-2015, Nanoscience & Nanotechnology, UAB)

Teaching/Training, ICREA Junior Period

- Sept 2010 – Sept 2012 **Associate Instructor** at the UB (“asociado 3+3”). Teaching freshmen students and experimental laboratories at the UB, Barcelona, Spain
- Dec 2008 – Jul 2011 **Supervisor** of last year students coursing experimental courses at the UB (“Pràcticas Avanzadas B” and “Estudiant Intern”):
 ■ Coral Herranz Lancho (2008, UB)
 ■ Ariadna Arbiol Roca (2008, UB)
 ■ Eva Guillén Piqué (2010, UB)
 ■ Fatiha Ouharrou (2010, UB)
 ■ Guillem Brandariz-de-Pedro (2011, UB)
 ■ Santiago Rodríguez Jiménez (2011, UB)

Organizing Conferences

- 2015 – 2014 **Member of the Organizing Committee**
SIJ2015: XII Simposio de Investigadores Jóvenes Real Academia Española de Química
2 – 6 November 2015, Barcelona, Spain (<http://congresses.icmab.es/sij2015/>)
- 2011 – 2012 **Member of the Local Organizing Committee**
MOLMAT 2012: Vth International Conference on Molecular Materials
3 – 6 July 2012, Barcelona, Spain (<http://molmat2012.com/>)

Institutional Responsibilities

- 2016 – Present **Member of the Gender Commission of the ICMAB**
<http://icmab.es/the-csic-gender-equality-certificate-to-the-icmab-was-delivered-by-the-csic-president-rosa-menendez-to-xavier-obradors>
- 2016- Present **Member of the Nanoquim Commission of the ICMAB**
<https://services.icmab.es/nanoquim/>
- 2011 – 2012 **Member of the Faculty Committee**
Inorganic Department, University of Barcelona, Barcelona, Spain

Commissions of Trust

- Sept 2018 – Present **Member of the Editorial Board of Inorganica Chimica Acta**
<https://www.journals.elsevier.com/inorganica-chimica-acta/editorial-board>
- Sept 2016 – Present **Member of Evaluator Panel** for the Chilean National Science and Technology Commission, CONECYT-Chile agency
- Sept 2015 – Present **Member of Evaluator Panel** for the Spanish government, Agencia Nacional de Evaluación y Prospectiva (ANEP) Plan Estatal Excelencia i+d B
- Jan 2020 **External Member of Evaluator Panel** for BIST Ignite.
- May 2015 – 2016 **Member of the Editorial Board of Magnetochemistry**
<http://www.mdpi.com/journal/magnetochemistry/editors>
http://www.mdpi.com/journal/magnetochemistry/special_issues/MOF
- Referee for Major International Journals**
Nanoscale, Chem. Comm., Inorg. Chem., Dalton Trans., Polyhedron among others
- 2012 – Present **Evaluator in Ph.D. & Master Committees**
Ph.D. Xabier Rodríguez Martínez, Universitat Autònoma Barcelona, Spain (19/10/2020)
Ph.D. Andrea Moneo Corcuera, ICIQ, Spain (18/12/2019)
Ph.D. Lidia Rosado Piquer, Universitat de Barcelona, Spain (04/10/2019)
Ph.D. Frangchang Tan, Universitat Autònoma de Barcelona, Spain (16/09/2019)
Master Eugenio Cataldo, University of Delft, The Netherlands (21/06/2019)
Ph.D. I. Lucía Herrera Jiménez, Universidad de Zaragoza, Spain (13/11/2018)
Ph.D. Ignacio José Olavarria Contreras, Technische Universiteit Delft, The Netherlands (02/07/2018)
Ph.D. Marc Padilla Barriento, Universitat Autònoma de Barcelona, Spain (12/12/2017)
Ph.D. Gerard Sabeña Vila, Universitat de Girona, Spain (23/06/2017)
Ph.D. Elena Marchante Rodríguez, Universitat Autònoma de Barcelona, Spain (09/06/2017)
Ph.D. Luis Escriche Tur, Universitat de Barcelona, Spain (21/11/2016)
Ph.D. Itziar Oyarzabal Epelde, Universidad del Pais Vasco, Spain (01/12/2015)

Ph. D. Marta Viciano-Chumillas. LIC, Leiden, The Netherlands (10/22/2009)

Master Saskia Speed Castro. Universitat de Barcelona, Barcelona, Spain (07/16/2009)

Memberships of Scientific Societies

Member of AcademiaNet (<http://www.academia-net.org/>)

Member of the Real Sociedad de Química Española (Specialized Group in Nanoscience and Molecular Materials)

Dissemination of Science

- 2016 – Present Theatrical reading about female researchers
Madame Châtelet y sus seguidoras en Instagram
 (https://cosmocaixa.es/es/p/madame-chatelet-y-sus-seguidoras-en-instagram_a551938
<https://congresses.icmab.es/watch-and-share-the-video-of-madame-chatelet-and-her-instagram-followers>)
- 2015 – Present Scientific talks in different schools & centers
 General audience (since 2015; Series title: “a scientist in the classroom”)
- 2013 TV interview
 Scientific program: <http://www.laxarxa.com/elproblemadegettier/>
- 2010 Scientific publication at main European Newspapers (Atomium Culture):
<http://www.rp.pl/artykul/589474.html>
<http://derstandard.at/1285199958727/Small-is-Good>
http://www.elpais.com/articulo/sociedad/Small/is/Good/Dressing/at/the/Nanoscale/elpepusoc/20110902elpepusoc_5/Tes
<http://www.faz.net/aktuell/wissen/atomium-culture/molekuele-vom-reissbrett-europe-s-next-top-metals-11068209.html>

Career Breaks

Apr 2013 / Sept 2013 Maternity leave (exact dates: from 04/22/2013 to 09/22/2013)

Invited talks / Oral presentations / Seminars

46. **Keynote Speaker. October 2022**
 7th Edition of the Smart Materials and Surfaces 2022, SMS Conference and Exhibition (SMS 2022) – Athens, Greece
 “Overview and recent findings on curcuminoids as molecular platforms for sensors and electronic components”
45. **Keynote Speaker. August 2022**
 Physics in 2D Nanoarchitectonics”, Mini-Colloquium within the CMD29 conference of the European Physical Society – Manchester, UK
 “Summary and prospects for curcuminoids in electronic devices and as 2D materials”
44. **Oral Communication. June 2022**
 XXXVIII Reunión Bienal RSEQ (Real Sociedad Española de Química) 2022– Granada, Spain
 “An Overview of curcuminoids in molecular electronics and current studies on graphene nanojunctions and coordination polymers-based FETs”
43. **Invited Speaker. December 2021**
 Scientific Advisory Board Meeting 2021 – Bellaterra, Spain
 “CCMoids for Single-Molecule Electronic Transport using Graphene-based Three-Terminal Devices”
42. **Oral Communication. November 2021**
 ElecMol -10th International Conference on Molecular Electronics – Lyon, France
 “A single-molecule electronic transport survey of nanowires based on curcuminoids”

41. **Oral Communication. October 2021**
SMS 2021 - Sensors 2021. 6th Edition of Smart Materials and Surfaces 2021. SMS Conference and Exhibition
Virtual attendance – Milan, **Italy**
“Extending the scope for curcuminoids: from active components on graphene devices to the creation of 2D materials”
40. **Oral Communication. September 2021**
[Virtual] European Congress and Exhibition on Advanced Materials and Processes Online conference - **Austria**
“T-shaped molecules based on curcuminoids for electronic transport and sensor purposes”
39. **Oral Communication. February 2021**
SmallChem2021 - Small Chem International Online Conference - **Spain**
“Curcuminoids: molecular platforms for electronic and sensor purposes”
38. **Invited Speaker. June 2020**
13th European School on Molecular Nanoscience Virtual ESMoInA - **Spain**
“Hybrid nanodevices based on FLG - Overview of the use of curcuminoids in single-molecule electron transport studies”
37. **Invited Speaker. December 2019**
Institute of Material Science of Barcelona (ICMAB) – Bellaterra, **Spain**
European Research Council (ERC) funding opportunities – a 360° overview
“Efficient electronic transport at room temperature by T-shaped molecules in graphene-based chemically modified three-terminal nanodevices”
36. **Invited Speaker. November 2018**
Institute of Material Science of Barcelona (ICMAB) – Bellaterra, **Spain**
“Exploring electronic transport using curcuminoid systems”
35. **Seminar. November 2018**
Institute of Nanoscience of Aragon (INA) – Zaragoza, **Spain**
“Curcuminoids in molecular electronics”
34. **Invited Speaker. June 2018**
8th North America-Greece-Cyprus Workshop on Paramagnetic Materials – Sparta, **Greece**
“Progress of curcuminoids in nanoscience”
33. **Invited Speaker. June 2018**
2nd ELECMI International Workshop – Zaragoza, **Spain**
“Electronic transport through single curcuminoids systems”
32. **Invited Speaker. May 2018**
11th European School on Molecular Nanoscience 6th Workshop on 2D Materials – Tenerife, **Spain**
“Curcuminoid systems in nanoscience”
31. **Oral Communication. August 2017**
14th European Conference on Molecular Electronics – Dresden, **Germany**
“Curcuminoid molecules as active components in hybrid graphene transistors”
30. **Oral Communication. June 2017**
XXXVI Reunión Bienal de La Real Sociedad Española de Química (RSEQ) – Sitges, **Spain**
“Two-terminal nanodevices based on few-layer graphene containing curcuminoid molecules at room temperature”
29. **Invited Speaker. May 2017**
10th European School on Molecular Nanoscience - 5th Workshop on 2D Materials – El Escorial, **Spain**
“Porphyrin and curcumin derivatives in molecular magnetism and molecular electronics”
28. **Invited Speaker. July 2016**
EMN on Organic-Electronics and Photonics – San Sebastian, **Spain**
“Single molecule measurements and studies regarding curcuminoids and porphyrin derivatives”

27. **Invited Speaker. July 2016**
Workshop: Designing advanced functionalities through controlled nanoelement integration in oxide thin films – Bellaterra, **Spain**
“Design and coordination of porphyrin and curcuminoid molecules: characterization and properties at the nanoscale”
26. **Invited Speaker. July 2016**
42nd International Conference on Coordination Chemistry, ICC2016 – Brest, **France**
“Coordination compounds based on porphyrins & curcuminoids as appliances in molecular electronics”
25. **Invited Speaker. November 2015**
Organic Electronics Meeting at ICMA B (ORGI 2015) / ICMA B – Bellaterra, **Spain**
“A perspective on curcuminoid systems in molecular electronics”
24. **Invited Speaker. October 2015**
ICMS2015 - 3rd International Conference on Materials Science – Valdivia, **Chile**
“Design and study of molecular materials containing curcuminoid or porphyrinic groups and their potential use in molecular electronics”
23. **Oral communication. September 2015**
ECMM2015 - 5th European Conference on Molecular Magnetism – Zaragoza, **Spain**
“Mononuclear 3d/4f (Easy Plane & Easy Axis) single molecule magnets containing curcuminoids and their prospects in molecular electronics”
22. **Oral communication. June 2015**
Scientific Workshop on Biomedical, Health and Bio-Related applications of Hybrid Materials/HINTBCN/ICN2 – Bellaterra, **Spain**
“Copper curcuminoids containing anthracene groups: fluorescent molecules with cytotoxic activity”
21. **Invited Speaker. October 2014**
ESMolNa 2014, 7th European School on Molecular Nanoscience – Alicante, **Spain**
“Work in progress in curcuminoids toward their inclusion in nanoscience”
20. **Invited Speaker. October 2014**
Facultad de Química y Biología, Universidad de Santiago de Chile – Santiago, **Chile**
“Estudio y aplicaciones de sistemas funcionales curcuminoides”
19. **Invited Speaker. October 2014**
Facultad de Ciencias Físicas y Matemáticas, Universidad de Chile – Santiago, **Chile**
“Diseño y estudios de compuestos de coordinación funcionales con ligandos curcuminoides”
18. **Oral communication. June 2014**
QIES-14, 16a Reunión Científica Plenaria de Química Inorgánica / 10a Reunión Científica Plenaria de Química del Estado Sólido – Almería, **Spain**
“Magnetic and fluorescent coordination compounds containing curcuminoids”
17. **Invited Speaker. November 2013**
Institute of Material Science of Barcelona (ICMA B) – Bellaterra, **Spain**
“Barnett Rosenberg / la seva troballa: el cisplati”
16. **Oral communication. October 2012**
V European School Molecular Nanoscience (ESMolNa) – Cuenca, **Spain**
“Multifunctional molecular systems containing curcuminoids”
15. **Invited Speaker. January 2011**
Seminario Internacional en Materiales Moleculares – Concepción, **Chile**
“Diseño de sistemas multifuncionales que contienen metales 3d/4f y grupos curcuminoides”

14. **Oral communication. January 2011**
XIII Encuentro de Química Inorgánica – Temuco, **Chile**
“Diseño de sistemas multifuncionales que contienen metales 3d/4f y grupos curcuminoides”
13. **Invited Speaker. October 2010**
Conference at the Department of Chemistry, Nankai University – Taijin, **China**
“Multifunctional 3d/4f building blocks containing curcuminoids”
12. **Oral communication. October 2010**
International Conference of Molecule-Based Magnets ICMM 2010 – Beijing, **China**
“Multifunctional 3d/4f building blocks containing curcuminoids”
11. **Invited Speaker. September 2009**
The Catalan Institute of Nanoscience and Nanotechnology, CIN2 – Bellaterra, **Spain**
“Synthesis and characterization of 3d compounds containing curcuminoids”
10. **Invited Speaker. August 2009**
USACH, University of Santiago de Chile – Santiago, **Chile**
“Synthesis and characterization of 3d compounds containing curcuminoids”
9. **Invited Speaker. June 2009**
Third North America-Greece-Cyprus Workshop on Paramagnetic Materials – Protaras, **Cyprus**
“Development of nanomolecular aggregates with multifunctional properties”
8. **Invited Speaker. May 2008**
Organic and Inorganic Departmental Meeting of the University of Barcelona, – Barcelona, **Spain**
“Estructura geomètrica i electrònica d’un compost de ferro amb estat d’oxidació V”
7. **Invited Speaker. February 2008.**
Inorganic Department of the University of Girona – Girona, **Spain**
“The geometric and electronic structure of [(Cyclam-acetato)Fe(N)]⁺; a genuine iron(V) species with ground state Spin S = 1/2”
6. **Seminar. July 2007**
IC3 meeting, Coordination and Bioinorganic Chemistry, Leiden Institute of Chemistry, Leiden University – Leiden, **The Netherlands**
“A Tale of two curcuminoids”
5. **Seminar. November 2005**
IC3 meeting, Coordination and Bioinorganic Chemistry, Leiden Institute of Chemistry, Leiden University – Leiden, **The Netherlands**
“From Bloomington to Leiden: Mn, Fe and Pt search”
4. **Seminar. February 2005**
Annual group meeting, Max-Planck Institute für the Bioanorganische Chemie – Muelheim and the Ruhr, **Germany**
“The geometric and electronic structure of [(Cyclam-acetato)Fe(N)]⁺; a genuine iron(V) species with ground state spin S = 1/2”
3. **Seminar. December 2003**
Annual group meeting, Max-Planck Institute für the Bioanorganische Chemie – Muelheim and the Ruhr, **Germany**
“Synthesis and characterization of novel mono-, di- and trinuclear Mn complexes”
2. **Seminar. May 2002**
Inorganic Chemistry Seminar, University of Florida – Gainesville, **USA**
“New tetranuclear manganese single molecule magnets with the [Mn₄O₃X]⁶⁺ core structure (X = Cl⁻, -O₂CC₆H₄-p-R and -O₂CC₆H₄-o-R)”
1. **Seminar. September 2000**
Inorganic Chemistry Seminar, Indiana University – Bloomington, Indiana, **USA**
“Preparation and magnetic properties of low symmetry [Mn₄O₃] complexes with S=9/2”

87. D. Riba-Lopez, R. Zaffino, D. Herrera, R. Matheu, F. Silvestri, J. Ferreira da Silva, E. C. Sanudo, M. Mas-Torrent, E. Barrena, R. Pfattner,* E. Ruiz, A. Gonzalez-Campo,* N. Aliaga-Alcalde*, ***iScience***, **2022**, 25(12),105686(1-29). “Dielectric behavior of curcuminoid polymorphs on different substrates by direct soft vacuum deposition”
86. Y. Gil, R. Gimeno-Muñoz, R. Costa de Santana, N. Aliaga-Alcalde, P. Fuentealba, D. Aravena, A. Gonzalez-Campo,* E. Spodine*, ***Inorganic Chemistry***, **2022**, 61, 16347–16355. “Luminescence of macrocyclic mononuclear Dy^{III} complexes and their immobilization on functionalized silicon-based surfaces”
85. D. Limon,* P. Gil-Lianes, L. Rodríguez-Cid, H. L. Alvarado, N. Díaz-Garrido, M. Mallandrich, L. Baldomà, A. C. Calpena, C. Domingo, N. Aliaga-Alcalde, A. Gonzalez-Campo,* LI. Perez-Garcia*, ***ACS Applied Nano Materials***, **2022**, 5, 13829–13839. “Supramolecular hydrogels consisting of nanofibers increase the bioavailability of curcuminoids in inflammatory skin diseases”
84. R. Pfattner,* E. Laukhina,* J. Li, R. L. Zaffino, N. Aliaga-Alcalde, M. Mas-Torrent, V. Laukhin, J. Veciana*, ***ACS Applied Electronic Materials***, **2022**, 4, 2432–2441. “Emergent insulator–metal transition with tunable optical and electrical gap in thin films of a molecular conducting composite”
83. A. C. Aragonès, A. Martín-Rodríguez, D. Aravena, G. di Palma, W. Qian, J. Puigmartí-Luis, N. Aliaga-Alcalde, A. González-Campo, I. Díez-Pérez*, E. Ruiz*, ***Chemistry – A European Journal***, **2021**, 60, 25958. “Room-temperature spin-dependent transport in metalloporphyrin-based supramolecular wires”
82. M. Amoza, L. Maxwell, N. Aliaga-Alcalde, S. Gómez-Coca, E. Ruiz*, ***Chemistry – A European Journal***, **2021**, 27, 16440. “Spin-phonon coupling and slow-magnetic relaxation in pristine ferrocenium”
81. L. Rodríguez-Cid, W. Qian, J. Iribarra-Araya, Á. Etcheverry-Berrios, E. Martínez-Olmos, D. Choquesillo-Lazarte, E. C. Sañudo, O. Roubeau, A. M. López-Periago, A. González-Campo, J. G. Planas, M. Soler,* C. Domingo*, N. Aliaga-Alcalde*, ***Dalton Transactions***, **2021**, 50, 7056. “Broadening the scope of high structural dimensionality nanomaterials using pyridine-based curcuminoids”
80. N. Portolés-Gil, S. Gómez-Coca, O. Vallcorba, G. Marbán, N. Aliaga-Alcalde, A. López-Periago, J. A. Ayllón*, C. Domingo*, ***RSC Advances***, **2020**, 10, 45090. “Single molecule magnets of cobalt and zinc homo- and heterometallic coordination polymers prepared by one-step synthetic procedure”
79. L. Rodríguez-Cid, E. C. Sañudo, A. M. López-Periago, A. González-Campo, N. Aliaga-Alcalde*, C. Domingo*, ***Crystal Growth and Design***, **2020**, 20, 6555. “Novel Zn(II) Coordination Polymers Based on the Natural Molecule Bisdemethoxycurcumin”
78. A. C. Aragonès, A. Martín-Rodríguez, D. Aravena, J. Puigmartí-Luis, David B. Amabilino, Núria Aliaga-Alcalde, Arántzazu González-Campo, E. Ruiz,* I. Díez-Pérez*, ***Angewandte Chemie International Edition***, **2020**, 59, 2. “Tuning Single-Molecule Conductance in Metalloporphyrin-Based Wires via Supramolecular Interactions”
77. O. Vidal, X. Castilla, N. Aliaga-Alcalde, A. M. Lopez-Periago, C. Domingo, S. Sentellas, J. Saurina*, ***Current Analytical Chemistry***, **2020**, 16, 95. “Determination of Curcuminoids by Liquid Chromatography with Diode Array Detection: Application to the Characterization of Turmeric and Curry Samples”
76. D. Dulić*, A. Rates, E. Castro, J. Labra-Muñoz, D. Aravena, A. Etcheverry-Berrios, D. Riba-López, E. Ruiz, N. Aliaga-Alcalde, M. Soler, L. Echegoyen, H. S. J. van der Zant*, ***Journal of Physical Chemistry***, **2020**, 124, 2698. “Single-Molecule Transport of Fullerene-Based Curcuminoids”
75. Ana B. Buades, Victor S. Arderiu, Lindley Maxwell, Martín Amoza, Duane Choquesillo-Lazarte, Núria Aliaga-Alcalde, Clara Viñas, Francesc Teixidor*, Eliseo Ruiz*, ***Chemical Communications***, **2019**, 55, 3825. “Slow-spin relaxation of a low-spin $S = 1/2$ Fe^{III} carborane complex”

74. E. Castro, M. R. Cerón, A. Garcia-Hernandez, Q. Kim, A. Etcheverry-Berrios, M. J. Morel, R. Díaz-Torres, W. Qian, Z. Martínez, L. Méndez, F. Pérez, C. A. Santoyo, R. Gimeno-Muñoz, R. Esper, D. A. Gutierrez, A. Varela-Ramirez, R. J. Aguilera, M. Llano, M. Soler, N. Aliaga-Alcalde, L. Echegoyen*, **RSC Advances**, **2018**, *8*, 73, 41692. "A new family of fullerene derivatives: fullerene-curcumin conjugates for biological and photovoltaic applications"
73. I. J. Olavarria-Contreras, A. Etcheverry-Berrios, W. Qian, C. Gutierrez-Ceron, A. Campos-Olguin, E. C. Sanudo, D. Dulić, E. Ruiz, N. Aliaga-Alcalde*, M. Soler*, H. S. J. van der Zant*, **Chemical Science**, **2018**, *9*, 34, 6988. "Electric-field induced bistability in single-molecule conductance measurements for boron coordinated curcuminoid compounds"
72. W. Qian, A. González-Campo, A. Pérez-Rodríguez, S. Rodríguez-Hermida, I. Imaz, K. Wurst, D. Maspoch, E. Ruiz, C. Ocal, C. Barrera, D. B. Amabilino*, N. Aliaga-Alcalde*, **Chemistry-A European Journal**, **2018**, *24*, 12950. "Boosting Self-Assembly Diversity in the Solid-State by Chiral/Non-Chiral Zn^{II}-Porphyrin Crystallization"
71. O. Guzman-Mendez, F. Gonzalez, S. Bernes, M. Flores-Alamo, J. Ordonez-Hernandez, H. Garcia-Ortega, J. Guerrero, W. Qian, N. Aliaga-Alcalde, L. Gasque, **Inorganic Chemistry**, **2018**, *57*, 3, 908. "Coumarin Derivative Directly Coordinated to Lanthanides Acts as an Excellent Antenna for UV-Vis and Near-IR Emission"
70. N. Portoles-Gil, A. Lanza, N. Aliaga-Alcalde, J. A. M. Ayllón, E. Gemmi, Mugnaioli, A. M. Lopez-Periago, C. Domingo, **ACS Sustainable Chemistry & Engineering**, **2018**, *6*, 9, 12309. "Crystalline Curcumin bioMOF Obtained by Precipitation in Supercritical CO₂ and Structural Determination by Electron Diffraction Tomography"
69. A. M. Lopez-Periago, N. Portoles-Gil, P. Lopez-Dominguez, J. Fraile, J. Saurina, N. Aliaga-Alcalde, G. Tobias, J. A. Ayllon, C. Domingo, **Crystal Growth & Design**, **2017**, *17*(5), 2864-2872. "Metal-Organic Frameworks Precipitated by Reactive Crystallization in Supercritical CO₂"
68. I. Berlanga, A. Etcheverry-Berrios, A. Mella, D. Jullian, V. A. Gomez, N. Aliaga-Alcalde, V. Fuenzalida, Flores, M. Soler, **Applied Surface Science**, **2017**, *392*, 834. "Formation of self-assembled monolayer of curcuminoid molecules on gold surfaces"
67. J. Albalad, J. Arinez-Soriano, J. Vidal-Gancedo, V. Lloveras, J. Juanhuix, I. Imaz, N. Aliaga-Alcalde, D. Maspoch, **Chemical Communications**, **2016**, *52*, 91, 13397. "Hetero-bimetallic paddlewheel clusters in coordination polymers formed by a water-induced single-crystal-to-single-crystal transformation"
66. M. Fontanet, M. Rodriguez, X. Fontrodona, I. Romero*, F. Teixidor*, C. Viñas, N. Aliaga-Alcalde, **Dalton Transactions**, **2016**, *45*, 27, 10916. "Carving a 1D Co-II-carboranylcarboxylate system by using organic solvents to create stable trinuclear molecular analogues: complete structural and magnetic studies"
65. M. Ying Tsang, F. Teixidor, C. Viñas, Clara; D. Choquesillo-Lazarte, N. Aliaga-Alcalde, J. Giner Planas* **Inorganica Chimica Acta**, **2016**, *448*, 97. "Synthesis, structures and properties of iron(III) complexes with (o-carboranyl)bis-(2-hydroxymethyl)pyridine: Racemic versus meso"
64. R. Diaz-Torres, M. Menelaou, A. Gonzalez-Campo, S. J. Teat, E. C. Sanudo, E.; M. Soler*, N. Aliaga-Alcalde*, **Magnetochemistry**, **2016**, *2*(3), 29. "Comparative Magnetic Studies in the Solid State and Solution of Two Isostructural 1D Coordination Polymers Containing Co-II/Ni-II-Curcuminoid Moieties"
63. A. Etcheverry-Berrios, R. Díaz-Torres, D. Jullian, I. Ponce, S. O. Vásquez, I. Olavarria, M. L. Perrin, R. Frisenda, H. S. J. van der Zant, D. Dulić*, N. Aliaga-Alcalde*, M. Soler*. **Chemistry – A European Journal**, **2016**, *22*, 36, 12808. "Multiscale approach to the study of the electronic properties of two thiophene curcuminoid molecules"
62. R. Díaz-Torres, M. Menelaou, O. Roubeau, A. Sorrenti, G. Brandariz-de Pedro, E. C. Sañudo, S. J. Teat, J. Fraxedas, E. Ruiz, N. Aliaga-Alcalde*. **Chemical Science**, **2016**, *7*, 2793. "Multiscale study of mononuclear Co^{II} SMMs based on curcuminoid ligands"

61. E. Burzuri*, J. Island, R. Díaz-Torres, A. Fursina, A. González-Campo, O. Roubeau, S. J. Teat, N. Aliaga-Alcalde*, E. Ruiz, H. S. J. van der Zant, **ACS Nano**, **2016**, 10 (2), 2521. "Sequential electron transport and vibrational excitations in an organic molecule coupled to few-layer graphene electrodes"
60. H. M. A. Ei-Lateef*, A. M. Abu-Dief, L. H. Abdel-Rahman, E. C. Sañudo, N. Aliaga-Alcalde. **Journal of Electroanalytical Chemistry**, **2015**, 743, 120. "Electrochemical and theoretical quantum approaches on the inhibition of C1018 carbon steel corrosion in acidic medium containing chloride using some newly synthesized phenolic Schiff bases compounds"
59. S. K. Mal, M. Mitra, B. Biswas, G. Kaur, P. P. Bag, C. M. Reddy, A. R. Choudhury, N. Aliaga-Alcalde, R. Ghosh*. **Inorganica Chimica Acta**, **2015**, 425, 61. "Ligand template synthesis of an undecametallate iron(III) complex: X-ray structure, magnetism and catecholase activity"
58. A. K. Jassal, N. Aliaga-Alcalde*, M. Corbella*, D. Aravena, E. Ruiz* and G. Hundal*, **Dalton Transactions**, **2015**, 44, 36, 15774. "Neodymium 1D systems: targeting new sources for field-induced slow magnetization relaxation"
57. N. K. Shee, J. P. Naskar, M. G. B. Drew, N. Aliaga-Alcalde, D. Datta*. **Inorganica Chimica Acta**, **2015**, 427, 97. "Stabilisation of true π -electron- π -electron interactions in an inorganic cocrystal"
56. F. Di Salvo, M. Y. Tsang, F. Teixidor, C. Viñas, J. Giner-Planas*, J. Crassous, N. Vanthuyne, N. Aliaga-Alcalde, E. Ruiz, G. Coquerel, S. Clevers, V. Dupray, D. Choquesillo-Lazarte, M. E. Light, M. B. Hursthouse. **Chemistry – A European Journal**, **2014**, 20, 1081. "A racemic and enantiopure unsymmetric diiron(III) complex with a chiral o-carborane-based pyridylalcohol ligand: combined chiroptical, magnetic, and nonlinear optical properties"
55. S. Sasmal, P. Chakraborty, S. Bhattacharya, N. Aliaga-Alcalde*, S. Mohanta*. **Polyhedron**, **2014**, 73, 67. "Crystal structure and magnetic properties of a hexacopper(II)-based azide-bridged one-dimensional coordination polymer: A new pattern of azide-bridged network"
54. A. Biswas, A. Jana, S. Sarkar, H. A. Sparkes, J. A. K. Howard, N. Aliaga-Alcalde*, S. Mohanta*. **Polyhedron**, **2014**, 74, 57. "Discrete systems and two-dimensional coordination polymers containing potentially multidentate and bridging inorganic anions: Observation of a new type of two-dimensional topology"
53. J. O. Island, A. Holovchenko, M. Koole, P. F. A. Alkemade, M. Menelaou, N. Aliaga-Alcalde, E. Burzuri, H. S. J. van der Zant*. **Journal of Physics-Condensed Matter**, **2014**, 26, 47. "Fabrication of hybrid molecular devices using multi-layer graphene break junctions"
52. S. Gómez-Coca*, E. Cremades, N. Aliaga-Alcalde, E. Ruiz. **Inorganic Chemistry**, **2014**, 53(2), 676. "Huge magnetic anisotropy in a trigonal-pyramidal nickel(II) complex"
51. M. Fontanet, M. Rodríguez, X. Fontrodona, I. Romero*, F. Teixidor*, C. Viñas, N. Aliaga-Alcalde, P. Matějčíček. **Chemistry – A European Journal**, **2014**, 20, 43 13993. "Water-soluble manganese inorganic polymers: the role of carborane clusters and producing large structural adjustments from minor molecular changes"
50. M. Fontanet, M. Rodríguez, I. Romero*, X. Fontrodona, F. Teixidor*, C. Viñas, N. Aliaga-Alcalde, P. Matejicek. **Dalton Transactions**, **2013**, 42, 7838. "A water soluble Mn(II) polymer with aqua metal bridges"
49. B. Biswas, M. Mitra, A. Pal, A. Basu, S. Rajalakshmi, P. Mitra, N. Aliaga-Alcalde, G. S. Kumar, B. U. Nair, R. Ghosh. **Indian Journal of Chemistry Section A**, **2013**, 52, 12, 1576. "DNA binding and cleavage activity of a structurally characterized oxo-bridged diiron(III) complex"
48. D. Aguila, L. A. Barrios, V. Velasco, L. Arnedo, N. Aliaga-Alcalde, M. Menelaou, S. J. Teat, O. Roubeau, F. Luis, G. Aromi*. **Chemistry - A European Journal**, **2013**, 19(19), 5881. "Lanthanide contraction within a series of asymmetric dinuclear Ln(2) complexes"
47. P. Bhowmik, N. Aliaga-Alcalde, V. Gómez, M. Corbella, S. Chattopadhyay*, **Polyhedron**, **2013**, 49, 269. "Methylene spacer regulated variation in structures and magnetic properties in copper(II) compounds with O, N, O donor Schiff bases"

46. S. Gómez-Coca, E. Cremades, N. Aliaga-Alcalde, E. Ruiz*. *Journal of the American Chemical Society*, **2013**, 135(18), 7010. "Mononuclear single-molecule magnets: tailoring the magnetic anisotropy of first-row transition-metal complexes"
45. M. Menelaou, T. Weyhermüller, M. Soler*, N. Aliaga-Alcalde*. *Polyhedron (Special Issue 100th Anniversary of the Award of the 1913 Nobel Prize in Chemistry to Alfred Werner: A Celebration)*, **2013**, 52, 398. "Novel paramagnetic-luminescent building blocks containing manganese(II) and anthracene-based curcuminoids"
44. A. M. Abu-Dief, R. Díaz-Torres, E. C. Sañudo, L. H. Abdel-Rahman*, N. Aliaga-Alcalde*, *Polyhedron (Symposia-in-print, by invitation, dedicated to Prof. George Christou on the occasion of his 60th birthday)*, **2013**, 64, 203. "Novel sandwich triple-decker dinuclear Nd^{III}-(bis-N,N'-p-bromo-salicylideneamine-1,2-diaminobenzene) complex"
43. A. Jana, N. Aliaga-Alcalde, E. Ruiz*, S. Mohanta*. *Inorganic Chemistry*, **2013**, 52,13, 7732. "Structures, magnetochemistry, spectroscopy, theoretical study, and catechol oxidase activity of dinuclear and dimer-of-dinuclear mixed-valence Mn^{III}Mn^{II} complexes derived from a macrocyclic Ligand"
42. S. Mondal, P. Chakraborty, N. Aliaga-Alcalde*, S. Mohanta*, *Polyhedron*, **2013**, 63, 96. "Syntheses, crystal structures and magnetic properties of three bis(end-on azide) bridged dicopper(II) complexes derived from half-condensed ligands: Observation of the smallest Cu-azide-Cu bridge angle in dinuclear systems"
41. B. Biswas, M. Mitra, J. Adhikary, G. R. Krishna, P. P. Bag, C. M. Reddy, N. Aliaga-Alcalde, T. Chattopadhyay, D. Das, R. Ghosh*. *Polyhedron*, **2013**, 53, 264. "Synthesis, X-ray structural and magnetic characterizations, and epoxidation activity of a new bis(μ -acetato)(μ -alkoxo)dinuclear iron(III) complex"
40. F. Di Salvo, F. Teixidor, C. Vinas, J. Giner Planas*, M.E. Light, M. Hursthouse, N. Aliaga-Alcalde. *Crystal Growth & Design*, **2012**, 12(11), 5720. "Metallo-supramolecular chemistry of novel chiral closo-o-carboranylalcohol pyridine and quinoline ligands: syntheses, characterization and properties of cobalt complexes"
39. M. Menelaou, F. Farrahou, L. Rodríguez, O. Roubeau, S. J. Teat, N. Aliaga-Alcalde*. *Communication. Chemistry – A European Journal*, **2012**, 18, 11545. "Dy^{III} and Yb^{III}-curcuminoid compounds: original fluorescent/single-ion magnet and magnetic/near-IR luminescent species"
38. I. Monte-Pérez, A. M. Sosa, S. Bernès, N. Aliaga-Alcalde, V. M. Ugalde-Saldívar, L. Gasque*. *European Journal of Inorganic Chemistry*, **2012**, 29, 4739. "pH dependent imidazolato bridge formation in dicopper complexes. Magnetic, electrochemical and catalytic repercussions"
37. M. R. Mendoza-Quijano, G. Ferrer-Sueta, M. Flores-Álamo, N. Aliaga-Alcalde, V. Gómez-Vidales, V. M. Ugalde-Saldívar, L. Gasque*. *Dalton Transactions*, **2012**, 41 (16), 4985. "Mechanistic insight on the catecholase activity of dinuclear copper complexes with distant metal centers"
36. I. Lumb, M. S. Hundal, P. Mathur, M. Corbella,* N. Aliaga-Alcalde*, G. Hundal*. *Polyhedron*, **2012**, 36, 85. "First report on a dinuclear Cu(II) complex based on pyridine dicarboxamido ligand having benzimidazole moieties in the amide side arms: synthesis, structure and magnetic properties of [Cu(GBPA)]₂·4H₂O, GBPA = N,N'-bis (2-methylbenzimidazolyl)-pyridine-1,3-dicarboxamide"
35. N. Aliaga-Alcalde*, L. Rodríguez, M. Ferbinteanu, P. Höfer, T. Weyhermüller. *Inorganic Chemistry*, **2012**, 51, 864. "Crystal structure, fluorescence, and nanostructuration studies of the first Zn^{II} anthracene-based curcuminoid"
34. N. Aliaga-Alcalde*, L. Rodríguez*. *Inorganica Chimica Acta (Young Investigator Special Issue)*, **2012**, 380, 187. "Solvatochromic studies of a novel Cd²⁺-anthracene-based curcuminoid and related complexes"

33. A. C. Kathalikkattil, K. K. Bisht, N. Aliaga-Alcalde, E. Suresh*. **Crystal Growth & Design**, 2011, 11(5), 1631. "Synthesis, magnetic properties, and structural investigation of mixed-ligand Cu(II) helical coordination polymers with an amino acid backbone and N-donor propping: 1-D helical, 2-D hexagonal net (hcb), and 3-D ins topologies"
32. S. Sasmal, S. Sarkar, N. Aliaga-Alcalde*, S. Mohanta*. **Inorganic Chemistry**, 2011, 50(12), 5687. "Syntheses, structures, and magnetic properties of three one-dimensional end-to-end azide/cyanate-bridged copper(II) compounds exhibiting ferromagnetic interaction: new type of solid state isomerism"
31. M. Du*, Z.-H. Zhang, C.-P. Li, J. Ribas-Arino, N. Aliaga-Alcalde, J. Ribas. **Inorganic Chemistry**, 2011, 50(15), 6850. "A 3D Cu(II) coordination framework with μ_4/μ_2 -oxalato anions and a bent dipyriddy coligand: unique zeolite-type NiP2 topological network and magnetic properties"
30. P. Bhowmik, H. P. Nayek, M. Corbella*, N. Aliaga-Alcalde*, S. Chattopadhyay*. **Dalton Transactions**, 2011, 40(31), 7916. "Control of molecular architecture by steric factors: mononuclear vs. polynuclear manganese(III) compounds with tetradentate N2O2 donor Schiff bases"
29. J. P. Naskar*, C. Biswas, B. Guhathakurta, N. Aliaga-Alcalde, L. Lu, M. Zhu*. **Polyhedron**, 2011, 30(13), 2310. "Oximato bridged copper(II) dimers: synthesis, crystal structure, magnetic, thermal and electrochemical properties"
28. M. Fontanet, A.-R. Popescu, X. Fontrodona, M. Rodriguez, I. Romero*, F. Teixidor*, C. Viñas, N. Aliaga-Alcalde, E. Ruiz. **Chemistry - A European Journal**, 2011, 17(47), 13217. "Design of dinuclear copper species with carboranylcarboxylate ligands: study of their steric and electronic effects"
27. F. Prins*, A. Barreiro*, J. W. Ruitenber, J. S. Seldenthuis, N. Aliaga-Alcalde, L. M. K. Vandersypen, H. S. J. van der Zant. **Nano Letters**, 2011, 11(11), 4607. "Room-temperature gating of molecular junctions using few-layer graphene nanogap electrodes"
26. A. P. Singh Pannu, P. Kapoor*, G. Hundal, R. Kapoor*, M. Corbella*, N. Aliaga-Alcalde*, M. Singh Hundal*. **Dalton Transactions**, 2011, 40(46), 12560. "Magneto-structural studies of two new cobalt(II)-N,N-diisobutylisonicotinamide compounds: $[\text{Co}(\text{LCl}_2)_n]$ and $[\text{Co}(\text{L})_2(\text{H}_2\text{O})_4][\text{Co}(\text{LBr}_3)_2] \cdot 2\text{H}_2\text{O}$ "
25. S. Sasmal, S. Hazra, P.; Kundu, S. Majumder, N. Aliaga-Alcalde*, E. Ruiz, S. Mohanta*. **Inorganic Chemistry**, 2010, 49, 9517. "Magneto-structural correlation studies and theoretical calculations of a unique family of single end-to-end azide bridged Ni^{II}_4 cyclic clusters"
24. N. Aliaga-Alcalde*, P. Marqués-Gallego, M. Kraaijkamp, C. Herranz-Lancho, H. den Dulk, H. Görner, O. Roubeau, S. J. Teat, T. Weyhermüller, J. Reedijk* **Inorganic Chemistry**, 2010, 49, 9655. "Copper curcuminoids containing anthracene groups: fluorescent molecules with cytotoxic activity"
23. P. Kapoor*, A. P. S. Pannu, M. Sharma, M. S. Hundal*, R. Kapoor, M. Corbella*, N. Aliaga-Alcalde*, **Journal of Molecular Structure**, 2010, 981, 1-3, 40. "Syntheses, X-ray crystal structure and magnetic studies of a new dinuclear Cu^{II} complex, $[\text{Cu}_2(\mu\text{-Cl})_2\text{L}_2\text{Cl}_2] \cdot 2\text{CH}_3\text{CN}$, L: N,N,N',N'-tetraisopropylpyridine-2,6-dicarboxamide"
22. B. Biswas, P. Raghavaiah, N. Aliaga-Alcalde, J.-D. Chen, R. Ghosh*, **Polyhedron**, 2010, 29(13), 2716. "Syntheses, crystal structures and properties of a new family of isostructural and isomorphous compounds of type $[\text{M}(\text{L})(\text{NCS})_3]$ [M = La, Gd, Tb and Dy; L = a neutral hexadentate Schiff base]"

21. P. Kapoor*, A. P. S. Pannu, G. Hundal, R. Kapoor,; M. Corbella*, N. Aliaga-Alcalde*, M. S. Hundal*. **Dalton Transaction**, **2010**, 39(34), 7951. "First report on N,N'-diisoalkylisonicotinamide 1D coordination network containing linear trinuclear [Co₃L₄Cl₆] units with mixed Co^{II}(Td)-Co^{II}(Oh)-Co^{II}(Td) geometries: structure and magnetic properties"
20. A. Escuer*, J. Esteban, N. Aliaga-Alcalde, M. Font Bardia, T. Calvet, O. Roubeau, S. S. Teat. **Inorganic Chemistry**, **2010**, 49(5), 2259. "First structural and magnetic studies of Ni clusters containing 2,6-viacetylpyridine-dioxime as a ligand"
19. V. K. Bhardwaj, N. Aliaga-Alcalde, M. Corbella*, G. Hundal*. **Inorganica Chimica Acta**, **2010**, 363, 97. "Synthesis, crystal structure, spectral and magnetic studies and catecholase activity of copper (II) complexes with di- and tri-podal ligands"
18. S. Hazra, S. Majumder, M. Fleck, N. Aliaga-Alcalde*, S. Mohanta*. **Polyhedron**, **2009**, 28, 370. "Synthesis, molecular and supramolecular structures, electrochemistry and magnetic properties of two macrocyclic dicopper(II) complexes: microporous supramolecular assembly"
17. N. Aliaga-Alcalde, S. DeBeer George, I. Alfaro-Fuentes, G. J. T. Cooper, N. Barba-Behrens, S. Bernes, J. Reedijk*. **Polyhedron**, **2009**, 28(16), 3459. "Physical characterization and biological studies of a (Streptidine)(Pt^{II}Cl₄) compound"
16. T. Tian, I. Mutikainen, G. P. van Wezel, N. Aliaga-Alcalde, J. Reedijk*. **Journal of Inorganic Biochemistry**, **2009**, 103(9), 1221. "Chemical, structural and biological studies of cis-[Pt(3-Acpy)₂Cl₂]"
15. S. De, M. G. B. Drew, N. Aliaga-Alcalde, D. Datta*. **Inorganica Chimica Acta**, **2009**, 362, 2879. "Imidazole-imidazole stacking in some inorganic complexes"
14. D. Schroder, H. Schwarz, N. Aliaga-Alcalde, F. Neese*. **European Journal of Inorganic Chemistry**, **2007**, 6, 816. "Fragmentation of the (cyclam-acetato)iron azide cation in the gas phase"
13. T. Petrenko, S. DeBeer George, N. Aliaga-Alcalde, E. Bill, B. Mienert, Y. Xiao, Y. Guo, W. Sturhahn, S. P. Cramer, K. Wieghardt, F. Neese*. **Journal of the American Chemical Society**, **2007**, 129, 11053. "Characterization of a genuine iron(V)-nitrido species by nuclear resonant vibrational spectroscopy coupled to density functional calculations"
12. N. Aliaga-Alcalde, S. DeBeer George, B. Mienert, E. Bill, K. Wieghardt*, F. Neese*, **Angewandte Chemie International Edition**, **2005**, 16, 2908. "The geometric and electronic structure of [(Cyclam-acetato)Fe(N)]⁺: a genuine iron(V) species with ground state spin S = 1/2"
11. N. Aliaga-Alcalde, R. S. Edwards, S. O. Hill, W. Wernsdorfer, K. Folting, G. Christou*, **Journal of the American Chemistry Society**, **2004**, 126, 12503. "Single-molecule magnets: preparation and properties of low symmetry [Mn₄O₃(O₂CPh-R)₄(dbm)₃]"
10. M. Evangelisti, F. Luis, F. L. Mettes, N. Aliaga, G. Aromí, J. J. Alonso, G. Christou*, L. J. de Jongh*. **Physical Review Letters**, **2004**, 93, 117202. "Magnetic long-range order induced by quantum relaxation in single-molecule magnets"
9. W. Wernsdorfer*, N. Aliaga-Alcalde, R. Tiron, D. N. Hendrickson, G. Christou*, **Journal of Magnetism and Magnetic Materials**, **2004**, 272-276 (Part 2), 1037. "Quantum dynamics of exchange biased single-molecule magnets"

8. R. Tiron, W. Wernsdorfer*, D. Foguet-Albiol, N. Aliaga-Alcalde, G. Christou*, **Physical Review Letters**, **2003**, 227203. "Spin-quantum tunneling via entangled states in a dimer of exchange-coupled single-molecule Magnets"
7. R. S. Edwards, S. Hill*, S. Bhaduri, N. Aliaga-Alcalde, E. Bolin, S. Maccagnano, G. Christou*. **Polyhedron**, **2003**, 22, 1911. "A comparative high frequency EPR study of monomeric and dimeric Mn4 single-molecule magnets"
6. M. Evangelisti, F. Luis, F. L. Mettes, N. Aliaga, G. Aromí, G. Christou*, L. J. De Jongh*. **Polyhedron**, **2003**, 2169. "Through quantum tunneling to dipolar order: the effect of varying magnetic anisotropy in three structurally related Mn4 molecular clusters"
5. S. Hill*, R. S. Edwards, N. Aliaga-Alcalde, G. Christou*, **Science**, **2003**, 302, 1015. "Quantum coherence in an exchange-coupled dimer of single-molecule magnets"
4. R. Tiron, W. Wernsdorfer*, N. Aliaga-Alcalde, G. Christou*, **Physical Review B**, **2003**, 68, 140404. "Quantum tunneling in a three-dimensional network of exchange-coupled single-molecule magnets"
3. K. Park*, M. R. Pederson, S. L. Richardson, N. Aliaga-Alcalde, G. Christou*, **Physical Review B**, **2003**, 68, 020405. "Density-functional theory calculation of the intermolecular exchange interaction in the magnetic Mn₄ dimer"
2. W. Wernsdorfer*, N. Aliaga-Alcalde, D. N. Hendrickson*, G. Christou*, **Nature**, **2002**, 416, 406. "Exchange-biased quantum tunneling in a supramolecular dimer of single-molecule magnets"
1. N. Aliaga, K. Folting, D. N. Hendrickson, G. Christou*, **Polyhedron**, **2001**, 20, 1273. "Preparation and magnetic properties of low symmetry [Mn₄O₃] complexes with S = 9/2"

BRIEF SUMMARY

1. I am the leader of the group *Functional Nanomaterials & Surfaces* (FunNanoSurf) at the Institute of Materials Science of Barcelona (ICMAB-CSIC).
<http://departments.icmab.es/funnanosurf/>
2. I have a total of **87 peer-reviewed articles** in major international journals, 67 as a totally independent researcher. I have been **cited more than 4000 times** and more than **97% of citations of my work are without self-citations** of all authors.
3. **H-index of 28.**
4. **One patent application** (not yet published), P202230143 (Ref. Number: ES1641.1728, 22/02/2022). Title: Dispositivo de sublimación por vacío.
5. List of the most relevant journals (and number of publications):
Nature (1) – Science (1) – Angewandte Chemie International Edition (3) – Journal of the American Chemical Society (3) – ACS Nano (1) – Nano Letters (1) – Chemical Science (2) - Physical Review Letters (2) – Crystal Growth & Design (4) – Chemical Communications (2) – ACS Sustainable chemistry & Engineering (1) – Chemistry - A European Journal (8) – Dalton Transactions (8) – Inorganic Chemistry (10) – RSC Advances (2) – Physical Review B (2), iScience (1) – ACS Applied Electronic Materials (1) – ACS Applied Nano Materials (1), among others.
6. I have provided a total of **46 Keynotes/Oral Presentations/Seminars/Invited talks in national and international conferences and congress** (Asia, Europe, North and South America).