José Augusto Berrocal

Organic chemist developing supramolecular and stimuli-responsive polymer materials for sustainable applications. I combine organic, supramolecular, and polymer chemistries to create functional materials.

ORCID ID 0000-0003-3435-8310
Researcher ID OEN-6223-2025

EDUCATION

10/2010 – 01/2014 PhD (cum laude) in Chemical Sciences (Awarded on January 10th, 2014)
University "La Sapienza", Rome (Italy)
PhD Advisors: Profs. Luigi Mandolini and Stefano Di Stefano
Thesis title: "Quantitative features of intramolecular reactions"

11/2012 – 05/2013 Visiting PhD student in the group of Prof. E. W. "Bert" Meijer
Eindhoven University of Technology (TU/e) (the Netherlands)

10/2008 – 07/2010 M.Sc. in Chemistry
University "La Sapienza", Rome (Italy)
Mark: 110/110 cum laude
Thesis title: "Studies on macrocyclization systems under thermodynamic control"

10/2005 – 09/2008 B.Sc. in Chemistry
University "La Sapienza", Rome (Italy)
Mark: 110/110 cum laude
Thesis title: "Synthesis and properties of a new family of cyclophane formaldehyde acetals"

WORK EXPERIENCE

12/2025 – present ICREA Research Professor and ICIQ Group Leader
Institute of Chemical Research of Catalonia (ICIQ) (Tarragona, Spain)

Maître Assistant (Non-tenure-track position; 10% appointment until 31/05/2026)
Adolphe Merkle Institute (AMI) at University of Fribourg (Switzerland)

07/2023 – 11/2025 Group Leader (Tenure-track position)
Institute of Chemical Research of Catalonia (ICIQ) (Tarragona, Spain)

Maître Assistant (Non-tenure-track position; 10% appointment)
Adolphe Merkle Institute (AMI) at University of Fribourg (Switzerland)

09/2019 – 06/2023 Maître Assistant (Non-tenure-track position)
Adolphe Merkle Institute (AMI) at University of Fribourg (Switzerland)

09/2017 – 09/2019 Postdoctoral Researcher in the group of Prof. Ben L. Feringa
Rijksuniversiteit Groningen (RUG) (the Netherlands)

04/2014 – 08/2017 Postdoctoral Researcher in the group of Prof. E. W. "Bert" Meijer
Eindhoven University of Technology (TU/e) (the Netherlands)

TEACHING EXPERIENCE AND OUTREACH ACTIVITIES

13/05/2024 Pint of Science
Fribourg (Switzerland)

Since 11/2023 "Crazy about Chemistry" Outreach Activity
Participation to two special sessions (lectures) on polymers with high school students
Institute of Chemical Research of Catalonia (ICIQ)

Since 10/2023 "Blau de Prússia" Podcast
Recording of two episodes of a radio podcast on science communication from Tarragona radio
Institute of Chemical Research of Catalonia (ICIQ)

05/2022 – 06/2023 KidsUni
Hands-on experience with polymer chemistry for primary school students
Adolphe Merkle Institute (AMI)

09/2021 – 06/2023 Course Co-Responsible – Selected Topics in Organic Chemistry
Chemistry Department, University of Fribourg (Switzerland)

09/2020 – 06/2023 Course Co-Responsible – Functional Materials
Chemistry Department, University of Fribourg (Switzerland)

09/2020 – 06/2023 Practical Course Co-Organizer and Teacher – Basic Lab Skills
Chemistry Department, University of Fribourg (Switzerland)

04/2014 – 08/2017 Co-Lecturer – Practical Organic Chemistry and Materials (OGO project)
Department of Chemistry and Chemical Engineering, TU/e (the Netherlands)

SUPERVISION AND COACHING

10/2023 – present Supervision of: 4 postdocs (Dr. Christopher Rader, Dr. Federico Frateloreto, Dr. Florent Monie, Dr. Lucia Visieri)
4 PhD students (Gaia Egizzo, Dnyaneshwar Mache, Ester Scaiella, Andrés Felipe Villamizar Mogotocoro)
1 M. Sc. student (Ward Vermeer)
Institute of Chemical Research of Catalonia (ICIQ) (Tarragona, Spain)

01/2019 – present Supervision of: 3 postdocs (Dr. Visuta Engkagul, Dr. James Hemmer, Dr. Justus Wesseler)
6 PhD students (Ilaria Onori, Matilde Folkesson, Baptiste Monney, Irene Antignano, Lorenzo Paleari, Youwei Ma)
3 M. Sc. students (Marco Caliari, Pacifique Umubyeyi, Kjell Cornelis)
Adolphe Merkle Institute (AMI)

04/2014 – 08/2017 Coach to: 3 M. Sc. students (Rob van Geffen, Mark Gosens, Alex Huizinga)
1 B. Sc. student (Kiyan Oroudji)
Department of Chemistry and Chemical Engineering, TU/e (the Netherlands)

10/2010 – 01/2014 Coach to: 3 M. Sc. students (Marzia Galli, Federica Laurenzi, Simone Albano)
2 B. Sc. students (Augusto Fantozzi, Valeria D'Amico)
Department of Chemistry, University "La Sapienza", Rome (Italy)

INSTITUTIONAL RESPONSIBILITIES

05/2025 – present Member of the strategic academic committee of the Severo Ochoa Grant
Institute of Chemical Research of Catalonia (ICIQ) (Tarragona, Spain)

01/2024 – 12/2024 Chair of the ICIQ-BASF seminar series
Institute of Chemical Research of Catalonia (ICIQ) (Tarragona, Spain)

10/2024 – present "ICIQ Open Science" committee member
Institute of Chemical Research of Catalonia (ICIQ) (Tarragona, Spain)

12/2023 – present "Green ICIQ" committee member
Institute of Chemical Research of Catalonia (ICIQ) (Tarragona, Spain)

09/2022 – 06/2023 Chair of the institute seminar series
Adolphe Merkle Institute (AMI)

MEMBERSHIP OF SCIENTIFIC SOCIETIES

2024 – present Spanish Royal Society of Chemistry (RSEQ)

2019 – present American Chemical Society (ACS)

2019 – present Swiss Chemical Society (SCS)

2010 – present Italian Chemical Society (SCI)

REVIEWING ACTIVITIES

2025 Evaluator for the 8th edition of the Barcelona Institute of Science and Technology (BIST) Seed grant
Evaluator for the 7th edition of the Barcelona Institute of Science and Technology (BIST) Award grant

2024 Evaluator for the 7th edition of the Barcelona Institute of Science and Technology (BIST) Seed grant
Evaluator for the 6th edition of the Barcelona Institute of Science and Technology (BIST) Award grant

2021 – present Reviewer for several ACS journals including "*Journal of the American Chemical Society*", "*ACS Macro Letters*", "*Macromolecules*", and "*ACS Polymer Au*"

2018 – present Reviewer for several RSC journals including "*Chemical Science*", "*Polymer Chemistry*", "*Dalton Transactions*", "*Chemical Communications*", and "*New Journal of Chemistry*"

2016 – present Reviewer for several Wiley journals including "*Angewandte Chemie*", "*Chemistry - A European Journal*", and "*Journal of Polymer Science - Part A*"

COMMITTEES OF TRUST

2025 Member of the PhD committee of Dr. Claire Morand (*University of the Basque Country*) and Dr. Gala Ogalla (*Institute of Chemical Research of Catalonia*)
Member of the PhD thesis reading committee of Dr. Gabriele Melchiorre (*University of Rome "La Sapienza"*) and Rosita Nicolella Gentile *(University of Parma)*

2024 Member of the PhD committee of Dr. Indradip Mandal (*University of Fribourg*)

09/2024 – present Member of the "Consiglio dei Docenti" (*Department of Chemistry, University "La Sapienza", Rome*)

01/2024 – present **Member of the Editorial Advisory Board of ACS Macro Letters**

2023 Member of the PhD thesis reading committee of Dr. Edgar Fuentes (*Institute of Bioengineering of Catalonia*), Dr. Lorenzo Paleari (*University of Rome "Tor Vergata"*), and Dr. Daniele Del Giudice (*University of Rome "La Sapienza"*)
Member of the PhD committees of Dr. Nicola Camedda, Dr. Federica Cester Bonati, and Dr. Carlo Vezzoni *(University of Parma)*
Member of the PhD committee of Dr. Ankita Mandal (*University of Fribourg*)

2022 Member of the PhD committee of Dr. Livius Muff (*Adolphe Merkle Institute*)

2021 Member of the PhD committee of Dr. Baptiste Monney (*Adolphe Merkle Institute*)

2020 Member of the PhD committee of Dr. Sergio Jurado (*Universitat Autònoma de Barcelona*)
Member of the PhD thesis reading committee of Dr. Angelo Nicosia (*University of Catania*)

CONFERENCES AND INVITED TALKS

Participation to 50+ international conferences, including (a small selection):

- *ACS Spring 2025* (San Diego)
- *GRC on Bioinspired Materials 2024* (Les Diablerets, Switzerland - discussion leader)
- *GRC on Self-Assembly and Supramolecular Chemistry 2023* (Les Diablerets - poster)
- *GRC on Self-Assembly and Supramolecular Chemistry 2019* (Les Diablerets - poster)
- *ACS Spring 2022* (Philadelphia - oral online)
- ACS *Fall 2022* (Chicago - oral)
- *Frontiers in Chemistry 2018* (Armenia, oral)

20+ invited talks, including (a small selection):

- University of Barcelona (Barcelona, December 12th, 2025)
- SNOCS 2025 (Tarragona, November 19th, 2025)
- MADPOL 2025 (Alcalá de Henares, November 13th, 2025)
- ACS Fall 2025 (Washington, D.C., August 20th, 2025)
- University of Zaragoza (Zaragoza, January 30th, 2025)
- Barcelona Institute of Science and Technology (Barcelona, September 25th, 2024)
- Sogang University (Seoul, January 22nd, 2024)
- Swiss Young Faculty Meeting Chemistry (Griesalp, May 31st, 2023)
- University of Parma (May 19th, 2023)
- University of Geneva (January 26th, 2023)
- POLYMAT (San Sebastian, September 2nd, 2022)
- University of Bern (June 29th, 2021)
- BASF (Ludwigshafen, June 20th 2018)

ORGANIZATION OF CONFERENCES

13–14 Feb 2025 2025 Swiss Young Faculty Meeting Chemistry
URL: https://chem.scnat.ch/en/young_faculty_meeting
Griesalp, Switzerland
Role: Co-organizer

22–24 Mar 2023 Dynamic Materials, Crystals and Phenomena Conference (DynaMIC23)
URL: https: //www.nanoge.org/DynaMIC23/home
Adolphe Merkle Institute, University of Fribourg (Switzerland)
Role: Local Coordinator

FELLOWHIPS, GRANTS, AND AWARDS

Key metrics: secured permanent position ▪ global €7.17M funding as PI/Co-PI since 2021

2025 — **ICREA Research Professorship**
Catalan Institution for Research and Advanced Studies
Competitive process selecting 20 positions overall for all sciences

12/2025 – 11/2029
Funding agency: Ministerio de Ciencia, Innovación y Universidades - Spain
Project title: *Autonomous Artificial Intelligence-Driven Discovery of Sustainable Fuels, Industrial Feedstocks, and Materials (2AID)*
Funding amount: 1.8 M€ in total, 370 k€ for Berrocal and another PI from ICIQ
Role: PI of Work Package 4 (WP)

2025
Ramón y Cajal Individual Fellowship
Ministerio de Ciencia, Innovación y Universidades - Spain
1st classified in the Chemistry area - Declined due to incompatibility with ICREA Professorship

2025 — **PSME Early Investigator Award 2025**
Division of Polymeric Materials: Science and Engineering (PMSE)
American Chemical Society (ACS)

09/2024 – 08/2027
Funding agency: Agencia Estatal de Investigación (AEI) - Spain
Project title: *Understanding the reactivity of mechanical force-responsive systems: a (macro)molecular engineering approach (ForcING)*
Funding amount: 120 k€
Role: Primary Investigator (PI)

2024 — **"Outstanding Young Investigator in Polymers" Award 2024**
Royal Society of Chemistry of Spain (RSEQ)

2023 — **Thieme Chemistry Journals Award 2023**

07/2023 – 06/2028
Funding agency: **European Research Council (ERC) Starting Grant 2021**
Project title: *Reversible Heterolytic Mechanophores for Dynamic Bulk Materials (ReHuse)*
Funding amount: 1.5M€
Role: Primary Investigator (PI)
Success rate <10%

06/2022 – 05/2025
Funding agency: **Office of Naval Research (ONR) Global**
Project title: *Mechanochromic Polyurethane Materials Comprising Triarylmethane Mechanophores*
Funding amount: 500k€
Role: PI

06/2022 – 05/2026
Funding agency: **European Innovation Council (EIC) - Pathfinder Grant**
Project title: *Biointegrable soft actuators alimented by metabolic energy (INTEGRATE)*
Funding amount: 3 M€ in total, 1.3 M€ for Berrocal and another PI from AMI
Role: Consortium Member (as one of the PIs) and Work Package (WP) leader
Success rate 6%

04/2021 – 04/2022
Funding agency: **Swiss National Science Foundation (Spark project)**
Project title: *Stimuli-induced proton shuttling – new concepts for new energy harvesting materials*
Funding amount: 100 kCHF
Role: PI
Success rate ~10%

10/2020 – 09/2021
Funding source: Climeworks (Industry)
Project title: *Polymers for carbon capture*
Funding: 150 kCHF
Role: Co-PI

2010 – 2013
Competitive PhD scholarship
Department of Chemistry, University of Rome "La Sapienza"

LIST OF PUBLICATIONS

§ Equal contribution
* Corresponding author

Key metrics: 53 publications overall ▪ 10 corresponding author papers in 2021–2025

1. From Beta-Dicarbonyl Chemistry to Dynamic Polymers
Ma, Y.*; Weder, C.; Du Prez, F.; **Berrocal, J. A.***
Chem. Rev. 2025, 125, 9296–9331

2. Solid-state mechanochemical activation of anthracene-maleimide adducts: the influence of the polymer matrix
Wesseler, J. P.; Hemmer, J. R.; Weder, C.; **Berrocal, J. A.***
RSC Mechanochemistry 2025, 2, 544-555

3. Discotic amphiphile supramolecular polymers for drug release and cell activation with light
Santini, R.; Riefolo, F.; Fuentes, E.; Maleeva, G.; Matera, C.; **Berrocal, J. A.;** Albertazzi, L.; Gorostiza, P.; Pujals, S.
Nanoscale 2025, 17, 10985-10995

4. Imine-Based Transient Supramolecular Polymers
Melchiorre, G.; Visieri, L.; Valentini, M.; Cacciapaglia, R.; Casnati, A.; Baldini, L.; **Berrocal, J. A.*;** Di Stefano, S.*
J. Am. Chem. Soc. 2025, 147, 11327-11335

5. Polymer-based solid electrolyte interphase for stable lithium metal anodes
Airoldi, M.; **Berrocal, J. A.;** Gunkel, I.; Steiner, U.
RSC Appl. Polym. 2025, 3, 278-288

6. Nafion membranes for power generation from physiologic ion gradients
Pierucci, C.; Paleari, L.; Baker, J.; Sproncken, C.; Folkesson, M.; Wesseler, J. P.; Vracar, A.; Dodero, A.; Nanni, F.; **Berrocal, J. A.**; Mayer, M.; Ianiro, A.
RSC Appl. Polym. 2025, 3, 209-221

7. Toughening Healable Supramolecular Double Polymer Networks Based on Hydrogen Bonding and Metal Coordination
Onori, I.; Formon, G.; Weder, C.***; Berrocal, J. A.***
Chem. - Eur. J. 2024, e202402511

8. Long-Lived Charge Carrier Photogeneration in a Cooperative Supramolecular Double-Cable Polymer
Joseph, J.; **Berrocal, J. A.**; Casellas, N.M.**;** Guldi, D. M.; Torres, T.; García-Iglesias, M.
J. Am. Chem. Soc. 2024, 146, 30272–30280

9. Double polymer networks comprising covalent and hydrogen-bonded cross-links
Onori, I.; **Berrocal, J. A.*;** Weder, C.*
Polymer 2024, 298, 126886

10. Triarylmethane Mechanophores Enable Full-Visible Spectrum Mechanochromism
Hemmer, J.; Bauernfeind, V.; Rader, C.; Petroselli, M.; Weder, C.**; Berrocal, J. A.***
Macromolecules 2023, 56, 21, 8614–8622

11. Closed-Loop Recycling of Vinylogous Urethane Vitrimers
Ma, Y.; Jiang, X.; Shi, Z.*; **Berrocal, J. A.***; Weder, C.*
Angew. Chem. Int. Ed. Engl. 2023, e202306188

12. Sustainable Phase Change Materials (PCMs): Waste Fat from Cooking Pork Meat Confined in Polypropylene Fibrous Mat from Waste Surgical Mask and Porous Bio-Silica
Bragaglia, M.; Lamastra, F. M.; **Berrocal, J. A.***;* Paleari, L.; Nanni, F.
Materials Today Sustainability 2023, 100454

13. Fast (Re)Processing of Urea-Containing Polymers Enabled by Dynamic Aminoketoenamide Bonds
Ma, Y.; **Berrocal, J. A.**; Jiang, X.; Shi, Z.
ACS Sust. Chem. Eng. 2023, 11, 7917-7923

14. An Electrolyte Additive for the Improved High Voltage Performance of $LiNi_{0.5}Mn_{1.5}O_4$ (LNMO) Cathode in Li-ion Batteries
Nguyen, M. T.; Pham,H.Q.; **Berrocal, J. A.**; Gunkel, I.; Steiner, U.
J. Mater. Chem. A 2023, 11, 7670-7678

15. Towards Eco-Sustainable Rubber Compounds: the Use of Waste Raw Materials
Bragalia, M.; Paleari, L.; **Berrocal, J. A.**; Lamastra, F. R.; Nanni, F.
J. Appl. Pol. Sci. 2023, 140, e53750

16. Computational Design of Anisotropic Nanocomposite Actuators
Ianiro, A.; **Berrocal, J. A.**; Tuinier, R.; Mayer, M.; Weder, C.
J. Chem. Phys. 2023, 158, 014901

17. Chemical Upcycling of Conventional Polyureas into Dynamic Covalent Poly(aminoketoenamides)
Ma, Y.; Jiang, X.; Yin, J.; Weder, C.*; **Berrocal, J. A.***; Shi, Z.*
Angew. Chem. Int. Ed. Engl. 2023, e202212870

18. Supramolecular Stability of Benzene-1,3,5-tricarboxamide Supramolecular Polymers in Biological Media: beyond the Stability-Responsiveness Trade-off
Fuentes, E.; Gabaldón, Y.; Collado, M.; Dhiman, S.; **Berrocal, J. A.**; Pujals, S.; Albertazzi, L.
J. Am. Chem. Soc. 2022, 144, 21196-21205

19. A Perspective on the Force-Induced Heterolytic Bond Cleavage in Triarylmethane Mechanophores
Hemmer, J. R.; **Berrocal, J. A.***
Synlett 2022, 33, 1681-1687

20. Polyaromatic Cores for the Exfoliation of Popular 2D Materials
Garrido, M.; Barrejón, M.; **Berrocal, J. A.**; Syrgiannis, Z.; Prato, M.
Nanoscale 2022, 14, 8986-8994

21. Strain-Correlated Mechanochromism in Different Polyurethanes Featuring a Supramolecular Mechanophore
Traeger, H.; Sagara, Y.; **Berrocal, J. A.**; Schrettl, S.; Weder, C.
Polym. Chem. 2022, 13, 2860-2869

22. Tuning the Donor-Acceptor Interactions in Phase-Segregated Block Molecules
Lamers, B. A. G.; van Son, M. H. C.; de Graaf, F. V.; van den Bersselaar, B. W.L.; de Waal, B. F. M.; Komatsu, K.; Sato, H.; Aida, T.; **Berrocal, J. A.**; Palmans, A. R. A.; Vantomme, G.; Meskers, S. C. J.; Meijer, E.W.
Mater. Horiz., 2022, 9, 294-302

23. Heterolytic Bond Cleavage in a Scissile Triarylmethane Mechanophore
Hemmer, J. R.; Rader, C.; Wilts, B. D.; Weder, C.*; **Berrocal, J. A.***
J. Am. Chem. Soc. 2021, 143, 18859 –18863

24. Discordant Supramolecular Fibres Reversibly Depolymerised by Temperature and Light
Gerth, M.; **Berrocal, J. A.**; Bochicchio, D.; Pavan, G. M.; Voets, I. K.
Chem. Eur. J. 2021, 27, 1829–1838

25. Stepwise Adsorption of Alkoxy-Pyrene Derivatives onto a Lamellar, Non-Porous Naphthalenediimide-Template on HOPG
Heideman, G. H.[§]; **Berrocal, J. A.[§]**; Stöhr, M.; Meijer, E. W.; Feringa, B. L.
Chem. Eur. J. 2021, 27, 207 –211

26. Tuning of Morphology by Chirality in Self-Assembled Structures of Bis (Urea) Amphiphiles in Water
Tosi, F.; **Berrocal, J. A.**; Stuart, M. C. A.; Wezenberg, S. J.; Feringa, B. L.
Chem. Eur. J. 2021, 27, 326–330

27. Combinatorial Selection Among Geometrical Isomers of Discrete Long Carbon Chain-Naphthalenediimides Induces Local Order at the Liquid/Solid Interface
Berrocal, J. A.[§]; Heideman, G. H.[§]; de Waal, B. F. M.; Meijer, E. W.; Feringa, B. L.
ACS Nano 2020, 14, 13865–13875

28. Molecular Motor-Functionalized Porphyrin Cage Compounds
Gilissen, P. J.; White, P. B.; **Berrocal, J. A.**; Vanthuyne, N.; Rutjes, F. P. J. T.; Feringa, B. L.; Elemans, J. A. W. W.; Nolte, R.
Nat Commun. 2020, 11, 5291

29. Synthesis of Core-Modified Third-Generation Light-Driven Molecular Motors
Berrocal, J. A.; Pfeifer, L.; Hejinen, D.; Feringa, B. L.
J. Org. Chem. 2020, 85, 16, 10670–10680

30. An Azobenzene-Based Single-Component Supramolecular Polymer Responsive to Multiple Stimuli in Water
Fuentes, E.; Gerth, M.; **Berrocal, J. A.**; Matera, C.; Gorostiza, P.; Voets, I. K.; Pujals, S.; Albertazzi, L.
J. Am. Chem. Soc. 2020, 142, 22, 10069–10078

31. Engineering Long-Range Order in Supramolecular Assemblies on Surfaces: The Paramount Role of Internal Double Bonds in Discrete Long-Chain Naphthalenediimides
Berrocal, J. A.[§]; Heideman, G. H.[§]; de Waal, B. F. M.; Enache, M.; Havenith, R. W. A.; Stöhr, M.; Meijer, E. W.; Feringa, B. L.
J. Am. Chem. Soc. 2020, 142, 4070-4078.

32. Tandem Catalysis in Multicomponent Solvent-Free Biofluids
Atkins, D. L.; **Berrocal, J. A.**; Mason, A. F.; Voets, I. K.
Nanoscale 2019, 11, 19797-19805.

33. Directing the Solid-State Organization of Racemates via Structural Mutation and Solution-State Assembly Processes
Kulkarni, C.; **Berrocal, J. A.**; Lutz, M.; Palmans, A. R. A.; Meijer, E. W.
J. Am. Chem. Soc. 2019, 141, 6302-6309.

34. Selenoamides modulate dipole-dipole interactions in hydrogen bonded supramolecular polymers of 1,3,5-substituted benzenes
Berrocal, J. A.[§]; Mabesoone, M. F. J.[§]; García-Iglesias, M.; Huizinga, A.; Meijer, E. W.; Palmans, A. R. A.
Chem. Commun. 2019, 55, 14906-14909

35. Resistive switching in an organic supramolecular semiconducting ferroelectric
Casellas, N. M.; Urbanaviciute, I.; Cornelissen, T. D.; **Berrocal, J. A.**; Torres, T.; Kemerink, M.; García-Iglesias, M.
Chem. Commun. 2019, 55, 8828-8831

36. Inherently Chiral *Cone*-Calix[4]Arenes via a Subsequent Upper Rim Ring-Closing/Opening Methodology
Berrocal, J. A.*; Baker, M. B.; Baldini, L.; Casnati, A.; Di Stefano, S.
Org. Biomol. Chem. 2018, 16, 7255-7264

37. Supramolecular Loop Stitches of Discrete Block Molecules on Graphite: Tunable Hydrophobicity by Naphthalenediimide End-Capped Oligodimethylsiloxane
Berrocal, J. A.; Teyssandier, J.; Goor, O. J. G. M.; De Feyter, S.; Meijer, E. W.
Chem. Mater. 2018, 30, 3372-3378.

38. Peptide-Driven Charge-Transfer Organogels Built from Synergetic Hydrogen Bonding and Pyrene-Naphthalenediimide Donor-Acceptor Interactions
Bartocci, S.; **Berrocal, J. A.***; Guarracino, P.; Grillaud, M.; Franco, L.*; Mba, M.*
Chem. Eur. J. 2018, 24, 2920-2928.

39. Photoswitchable Nanomaterials Based on Hierarchically Organized Siloxane Oligomers
Zha, R. H.; Vantomme, G.; **Berrocal, J. A.**; Gosens, R. P. J.; De Waal, B. F. M.; Meskers, S.; Meijer, E. W.
Adv. Funct. Mater. 2018, 28, 1703952.

40. Variations in the Fuel Structure Control the Rate of the Back and Forth Motions of a Chemically Fuelled Molecular Switch
Biagini, C.; Albano, S.; Caruso, R.; Mandolini, L.; **Berrocal, J. A.**; Di Stefano, S.
Chem. Sci. 2018, 9, 181-188.

41. Supramolecular Polymerization of a Ureidopyrimidinone-Based [2]Catenane Prepared via Ring-Closing Metathesis
Teunissen, A. J. P.[§]; **Berrocal, J. A.**[§]; Corbet, C. H. W. A.; Meijer, E. W.
J. Polym. Sci. Part A: Polym. Chem. 2017, 55, 2971-2976.

42. Unraveling the Driving Forces in the Self-Assembly of Monodisperse Naphthalenediimide-Oligodimethylsiloxane Block Molecules
Berrocal, J. A.; Zha, R. H.; De Waal, B. F. M.; Lugger, J. A. M.; Lutz, M.; Meijer, E. W.
ACS Nano 2017, 11, 3733-3741.

43. Influence of Topology on the Gelation Behavior of Coordination Polymers Prepared via ROMP of Macrocyclic Olefins
Albano, S.; Fantozzi, A.; **Berrocal, J. A.**; Di Stefano, S.
J. Polym. Sci. Part A: Polym. Chem. 2017, 53, 1237-1242.

44. Highly Circularly Polarized Broad-Band Emission from Chiral Naphthalene Diimide-Based Supramolecular Aggregates
Salerno, F.; **Berrocal, J. A.**; Haedler, A. T.; Zinna, F.; Meijer, E. W.; Di Bari, L.
J. Mater. Chem. C 2017, 5, 3609-3615.

45. Mesoscopic Helical Architectures *via* Self-Assembly of Porphyrin-Based Discotic Systems
Vela, S.[§]; **Berrocal, J. A.**[§]; Atienza, C.; Meijer, E. W.; Martin, N.
Chem. Commun. 2017, 53, 4084-4087.

46. Coupling of the Decarboxylation of 2-Cyano-2-phenylpropanoic Acid to Large-Amplitude Motions: a Convenient Fuel for an Acid-Base-Operated Molecular Switch
Berrocal, J. A.; Biagini, C.; Mandolini, L.; Di Stefano, S.
Angew. Chem. Int. Ed. Engl. 2016, 24, 6997-7001.

47. Consequences of Conformational Flexibility in Hydrogen-Bond-Driven Self-Assembly Processes
Berrocal, J. A.[§]; Di Meo, F.[§]; García-Iglesias, M.[§]; Gosens, R. P. J.; Meijer, E. W.; Linares, M.; Palmans, A. R. A.
Chem. Commun. 2016, 52, 10870-10873.

48. A Cu^{I}-Based Metallo-Supramolecular Gel-Like Material Built from a Library of Oligomeric Ligands Featuring Exotopic 1,10-Phenanthroline Units
Berrocal, J. A.; Albano, S.; Mandolini, L.; Di Stefano, S.
Eur. J. Org. Chem. 2015, 34, 7504-7510.

49. Ring-Opening Metathesis Polymerization of a Diolefinic [2]-Catenane-Copper(I) Complex: an Easy Route to Polycatenanes
Berrocal, J. A.; Pitet, L.; Nieuwenhuizen, M.M.L.; Mandolini, L.; Meijer, E.W.; Di Stefano, S.
Macromolecules 2015, 48, 1358-1363.

50. Copper-Induced Amplification of a [2]Catenane in a Virtual Dynamic Library of Macrocyclic Alkenes
Berrocal, J. A.; Nieuwenhuizen, M.M.L.; Mandolini, L.; Meijer, E.W.; Di Stefano, S.
Org. Biomol. Chem. 2014, 12, 6167-6174.

51. Highly Efficient Intramolecular Cannizzaro Reaction between 1,3-Distal Formyl Groups at the Upper Rim of a *Cone*-Calix[4]arene
Galli, M.; **Berrocal, J. A.**; Di Stefano, S.; Cacciapaglia, R.; Mandolini, L.; Baldini, L.; Casnati, A.; Ugozzoli, F.
Org. Biomol. Chem. 2012, 10, 5109-5112.

52. Target-Induced Amplification in a Dynamic Library of Macrocycles. A Quantitative Study
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1. Less PVA, More Function: Enhancing PLGA Nanoparticle Functionalization and Cellular Uptake
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1. Amino sorbents for capturing CO_2 from gas streams
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