Curriculum Vitae Prof. Dr. Arjan W. Kleij January 9 – 2025

ORCHID: 0000-0002-7402-4764, Researcher ID: J-5281-2015

2011–present: ICREA research Professor & ICIQ Senior Group Leader Institute of Chemical Research of Catalonia, The Barcelona Institute of Science & Technology, Av. Països Catalans 16, 43007 – Tarragona (Spain) & Catalan Institute of Research & Advanced Studies (ICREA), Lluis Companys 23, 08010 – Barcelona Tel: +34-977920247; Email: akleij@iciq.es

2014–2019: Scientific advisor for the Henkel/ICIQ joint industrial unit

2006–2011: Junior ICIQ Group Leader & ICREA fellow

2005–2006: Senior research scientist at Hexion Specialty Chemicals (Rotterdam, the Netherlands). **Topics**: industrial catalysis, process optimization (resins & resin-precursors), internal consulting

2003–2005: Senior PD-Fellow, University of Amsterdam (NL). Advisor: Prof. Dr. Joost Reek. **Topics**: supra-molecular catalysis, porphyrin and salen chemistry, homogeneous catalysis.

2002–2003: NWO TALENT postdoctoral fellow, Universidad Autónoma de Madrid (Spain). Advisor: Prof. Dr. Javier de Mendoza. **Topics**: calixarenes, ureapyri-midones, supramolecular recognition.

2000–2002: Project Leader Pharma at Avantium Technologies (Amsterdam, NL). **Topics**: hydrogenation of aromatics and ketones, biopolymer synthesis, process development, THE techniques.

1996–2000: PhD (*cum laude*) in organometallic chemistry & dendrimers, University of Utrecht (NL). Advisor: Prof. Dr. Gerard van Koten. **Topics**: carbosilane dendrimers, Pd/Ni/Pt chemistry, Li-chemistry, atom-transfer radical addition & aldol condensation catalysis.

1991–1996: MSc (*with honors*), University of Utrecht (NL). Advisors: Prof. Dr. Gerard van Koten, Prof. Dr. Leo Jenneskens. **Topics**: flash-vacuum thermoly-sis of PAC precursors towards multi-fused aromatic compounds, Zn-catalyzed asymmetric synthesis of chiral alcohols, synthesis of heteroleptic diaryl-Pd complexes.

1. Honors – Awards - Distinctions

- Advisory board member for *Advanced Synthesis & Catalysis* (Wiley), **2025**→
- Advisory board member for *Green Chemistry* (RSC), **2025**→
- Member of the governing board (secretary) of the "Grupo Especializado de Química Verde" (GEQV) from the Spanish Chemical Society (RSEQ), **2024**
- RSC guest editor for a *trans*-disciplinary web issue (6EUGSC), **2023**
- 🏆 Scientific Excellence Award from the Catalan Chemical Society (SCQ), **2023**
- Advisory board member for *Sustainable Chemistry for the Environment* (Elsevier), **2023**→
- 🏆 EuChemS European Sustainable Chemistry Award (ESCA), **2023**
- Scientific coordinator of the HORIZON-TMA-MSCA-DN-JD (joint doctoral network) "*D-Carbonize*", **2023**-**2026**
- Editorial board member of *Industrial Chemistry & Materials* (RSC), **2022**→
- Invited Guest Editor for *Green Chemical Engineering* (*GreenChE*, Elsevier), **2022**
- Invited volume editor for *Advances in Catalysis* (Elsevier) for a topical edition on "Catalysis for Enabling Carbon Dioxide Utilization", **2022**
- Professor *Ad Honorem* at the Universitat Rovira i Virgili (Tarragona), **2021**→
- 🏆 Elected Fellow of the Royal Society of Chemistry (FRSC), **2021**
- Associate editor for *Green Synthesis and Catalysis* (Elsevier), citescore[2023] = 11, **2021**→
- Member of the International Advisory Board of *ChemCatChem* (IF[2023] = 4.5), **2021**-
- Guest professor at the University of Tokyo (Japan), November 15 + 16, **2021** (contact: Prof. Hirohiko Houjou)
- Member of the Editorial Advisory Board of *ACS Sustainable Chemistry & Engineering* (IF[2023] = 8.4), **2021**-
- 🏆 Scientific Research Excellence Award from the Spanish Chemical Society (RSEQ), **2020**
- Selected as an *Outstanding Reviewer* for *Catalysis Science & Technology* (RSC) by the editorial board, February **2020**
- Visiting professor Dalian University of Technology (China, **2020**-**2023**)
- Elected as Editorial Board member of *ChemSusChem* since **2020** (Wiley; IF[2023] = 8.4)
- Global Scientific Advisor for Henkel, **2019**-**2020**
- Member of the Division of Green and Sustainable Chemistry of the EUCHEMS (**2019**-)
- Associate Editor for *Organic Chemistry Frontiers* (RSC, IF[2023] = 5.4) since **2019**
- Selected as an *Outstanding Reviewer* for *RSC Advances* (RSC) by the editorial board, October **2019**
- Selected as an *Outstanding Reviewer* for *Green Chemistry* (RSC) by the editorial board, March **2019**
- Invited guest editor for *Advanced Synthesis & Catalysis* (Wiley) for an issue dedicated to CO_2 catalysis (**2019**)

- Chair of the *4th EUGSC Conference on Green & Sustainable Chemistry* (Tarragona, Spain), September **2019**
- Featured in an "Author Profile" in *Angewandte Chemie* in **2018**
- Editorial board member for *Molecules* (MDPI; IF[2023] = 4.6), **2017**-**2020**
- Editorial board member for the *Journal of CO_2 Utilization* (Elsevier; IF[2022] = 8.321), **2017**-
- Invited Guest Editor for *ChemSusChem* in **2017** (special issue on CO_2 catalysis)
- Selected as an *Outstanding Reviewer* for *Catalysis Science & Technology* (RSC) by the editorial board, March **2016**
- Chair of the *Conference on Carbon Dioxide Catalysis* (CDCC-1) conference (Portugal, Albufeira), April **2016**
- Advisory board member of *ChemSusChem* (Wiley; IF[2023] = 8.4), **2016**-**2019**
- Editorial board member for *Current Organic Chemistry* (Bentham; IF[2023] = 2.6), **2014**–**2020**
- External scientific panel member for the ANR (France) since **2014**
- Invited Guest Editor for *Catalysis Science & Technology* (RSC) in **2014** for a special issue concerning CO_2 conversion catalysis
- Management committee member of COST action CM1305, **2014**–**2019**
- Advisory board member for *Supramolecular Catalysis* (Versita Publishing) **2013**–**2015**
- Editorial board member for *ISRN Inorganic Chemistry* (Hindawi Publishing Corporation) **2013**–**2016**
- Visiting professor at the Universitat Rovira i Virgili (Tarragona, Spain), **2012-2020**
- Chemical consultant (Sabic, Hexion) in **2010-2011**.
- ICREA professorship (Catalonia) since **2011**
- Tenure track position at ICIQ – Tarragona in **2006**
- 🏆 ICREA junior fellow (Catalonia) in **2006**
- Financial performance award at Hexion Specialty Chemicals in **2005**
- Financial performance award at Avantium Technologies in **2002**
- IASOC (Italy) travel scholarship in **2002**
- 🏆 TALENT fellowship from The Netherlands Organization for Scientific Research (NWO, national science foundation) in **2001**
- PhD obtained *Cum Laude* in **2000**
- NWO-Chemical Sciences PhD fellowship **1996–2000**
- Citations (December **2023**): >18600, *h*-index = 72, *i10*-index = 194, average citations/published paper 77.0. Source: Google Academic.
- ~241 journal publications/book chapters and 6 patent applications.

2. Funding Record

- Beatriu de Pinós call **2024**, postdoctoral fellowship to Supriya Rej, **2025**–**2027** (Ref: 2023-BP-00059), "*Exploration of boron-based reducing agent for multiple borylation protocols: New route in photochemical borylation*", EVOLUTION, *152.864,70 Euro*.
- MICINN/AEI, programa Estatal de Generación de Conocimiento 2023, **2024**-**2026** (Ref: PID2023-149295NB-I00), "*Advancing Metal-Assisted Transformations of Functionalized Heterocycles into Novel Stereodefined Scaffolds*", AVANT-GARDE, *268.750 Euro* + *FPI fellowship*
- China Scholarship Council (CSC) PhD fellowship to Yue Ren, **2024**-**2028** (Ref: 2024-06350035) "*Catalytic Asymmetric Synthesis of Aza/Quaternary Stereocenters Using 1,3-Enynes as Versatile New Substrates"*, *64.800 Euro*.
- Marie Curie HORIZON-TMA-MSCA-PF-EF grant to Davide Rigo **2024**-**2026**, "*Isopropenyl esters (iPEs) as building blocks for the synthesis and recycling of renewable polyethers with tunable properties*" (ref: 101153094 – IMPULSE), *165,312.96* Euro
- Juan de la Cierva "Incorporation" PD grant to David H. Lamparelli, **2024**-**2026**, ref: JDC2022-048812-I, *70.000 Euro (granted but not accepted/executed)*
- Marie Curie HORIZON-TMA-MSCA-PF-EF grant to Thiru Senthamarai **2023**-**2025**, "*The development of bio-supported homogeneous organocatalysts with improved recycling potential through sequential de- and re-polymerization and their use in CO_2 valorization catalysis*" (ref: 101110356-RECIRCULATE), *181,152.96* Euro
- Marie Curie HORIZON-TMA-MSCA-PF-EF grant to Matteo Lanzi **2023**-**2025**, "*Photocatalyzed enantiodivergent synthesis of homoallylic and carboxylic acids featuring heterodiaryl quaternary carbon stereocenters*" (ref: 101105057-PEACE), *165,312.96* Euro
- Grups de Recerca SGR-Cat **2021** Reconeguts i Finançats per la Generalitat de Catalunya 2021 (Ref: 2021-SGR-00853), "Research Group Kleij", *60.000 Euro*.
- Beca predoctoral FPI **2021** (Ref: PRE2021-100384), Alejandro Delgado Montiel, "*AVANZANDO LA SINTESIS CATALÍTICA DE ESTEREOCENTROS CUATERNARIOS*", CONQUEST, *100.860 Euro*
- Beatriu de Pinós call 2021, postdoctoral fellowship to Matteo Lanzi, **2022**–**2024** (Ref: 2021-BP-00162), "*C-SPLIT: Enantio-divergent synthesis of heterodiaryl substituted homoallylic alcohols featuring quaternary carbon stereocenters*", *144.300 Euro*
- China Scholarship Council (CSC) PhD fellowship to Chengyang Chang, **2022**-**2025** (Ref: 2022-06920011) "Catalytic Asymmetric Synthesis of Allylic Fluorides using Electrophilic and Nucleophilic Approaches", *64.800 Euro*.
- EU-HORIZON-TMA-MSCA-DN-JD (joint doctoral network), **2022** (Ref: 101073223), "D-Carbonize", *3.168.331,19 Euro* (assigned to ICIQ: *876.770,98 Euro*)
- MICINN-AEI-Juan de la Cierva **2020** (formación), postdoctoral fellowship, Matteo Lanzi (Ref: FJC2020-044116-I), *52.600 Euro*
- BASF funded "Creativity Project", **2021** (Ref: 2021-29-AK), *120.000 Euro*

- Agencia Estatal de Investigación (AEI), programa "Proyectos de Colaboración Internacional", PCI, **2021** (Ref: PCI2021-122021-2B), "Nickel-Catalyzed Regio- and Enantioselective Synthesis of Highly Substituted Allylic Amines", NEMESIS (Debasish Ghorai), *160.932,00 Euro*
- ACCIÓ/Generalitat de Catalunya, programa 2021 Tecniospring INDUSTRY, **2022**-**2023** (Ref: ACE026/21/000087, Dimitrios Skoulas), "*Composite Materials made from Biobased Limonene Originating Polycarbonates*", COMBILOOP, *138.141,13 Euro*
- MICINN, programa "Prueba de Concepto" de programa estatal de I+D+i orientada a los retos de la sociedad, **2021**-**2022** (Ref: PDC2021-120952-I00), "*Design and Scale Up of Biobased Functionalized Polycarbonates for Adhesive and Coating Applications*", MACROLEMON, *120.750 Euro*
- MICINN, programa Estatal de Generación de Conocimiento 2020 - Agencia Estatal de Investigación, **2021**-**2023** (Ref: PID2020-112684GB-I00), "*AVANZANDO LA SINTESIS CATALITICA DE ESTEREOCENTROS CUATERNARIOS*", CONQUEST, *217.800 Euro*
- China Scholarship Council (CSC) PhD fellowship to Wangyu Shi, **2021**-**2025** (Ref: 2021-06350046) "*A Catalytic Cascade Approach towards Polymerizable Cyclic Organic Carbonates"*, *64.800 Euro*.
- China Scholarship Council (CSC) PhD fellowship to Fengyun Gao, **2021**-**2025** (Ref: 2021-06180010) "*Enantiodivergent Approach for the Synthesis of Diaryl All-Carbon-Substituted Quaternary Stereocenters"*, *64.800 Euro*.
- Marie Curie H2020 MSCA-IF grant to Balász Tóth **2022**-**2024**, "*Co/Photoredox Catalysis for the Synthesis of Fluorine-Containing Skipped Dienes Featuring a Quaternary Carbon Stereocenter*" (ref: 101026029-FUSE), *160,932.48* Euro. *[4]
- Europa Investigación **2020**, MINECO (Ref: EIN2020-112336) "*ESTRATEGIAS PARA LA TRANSFORMACION CATALITICA DE LOS RESIDUOS PLASTICOS EN COMPONENTES VALIOSOS*", *15.000 Euro*.
- Europa Investigación **2020**, MINECO (Ref: EIN2020-112346) "*RED DE FORMACION ENFOCADA EN NUEVAS RUTAS PARA VALORIZAR TRANSFORMACIONES BASADAS EN EL USO DE CO_2*", *14.982 Euro*.
- China Scholarship Council (CSC) PhD fellowship to Qian Zeng, **2020**-**2024** (Ref: 2020-06920024) "*Merging Stereo- and Enantioselective Decarboxylative Conversion of Vinyl Carbonates: Creation of Challenging Quaternary Carbon Stereocenters"*, *64.800 Euro*.
- TRIPyr, "Tecnologías Químicas para la Valorización de Residuos Industriales en los Pirineos" (ref: EFA308/19 Interreg POCTEFA) **2020**-**2022**, *836.448,36 Euro* totally financed; *84.000 Euro* for the Kleij group.
- Marie Curie H2020 MSCA-IF-**2019** grant to Bart Limburg, "*Photocatalyzed Formation of Amino Acids*" (ref: 889754-PHOTOCARBOX), *160,932.48* Euro

- FPI predoctoral fellowship, Alba Villar Yanez **2019** (Ref: PRE2018-083947), "*Síntesis estéreo y enantioselectiva para la valorización de heterociclos funcionales*", *92.750 Euro*.
- DAAD (German Academic Exchange Service), postdoctoral grant to Alexander Lücht **2019** (Ref: 0001251653-1), "*Asymmetric Synthesis via Domino Allylic Alcohol Activation/Amination*", *15.786 Euro*.
- Beatriu de Pinós call 2018, postdoctoral fellowship to Debasish Ghorai, **2020–2023** (Ref: 2018-BP-00243), "*Nickel-Mediated Regio- and Enantioselective Synthesis of Allylic Amines*", *144.300 Euro.*
- China Scholarship Council (CSC) PhD fellowship to Xuetong Li, **2019–2023** (Ref: 2019-06870036) "*Synthesis of Chiral Heterocycles via Kinetic Resolution using Organocatalysis*", *64.800 Euro*.
- China Scholarship Council (CSC) PhD fellowship to Jixiang Ni, **2019–2023** (Ref: 2019-06180075) "*Valorisation of CO_2 based Heterocycles: Stereocontrolled Transition Metal Catalyzed Decarboxylative Transformations*", *64.800 Euro*.
- AGAUR/FEDER, Convocatòria d'Indústria del Coneixement (**2018**) Modalitat A. Llavor, "*POLIMON: Polyesters from renewable sources*" (Ref: 2018-LLAV-00078), *20.000 Euro*.
- Marie Curie H2020 MSCA-IF grant to Francesco Della Monica **2018**, "*Sustainable Polyesters and Renewable Terpenoid Monomers*" (ref: 840557-SUPREME), *172.932,48* Euro
- La Caixa INPhINIT predoctoral fellowship to Nicola Zanda (co-supervised with Miquel Pericàs) **2018**, "*Catalytic Asymmetric Transformations in Continuous Flow: Telescoped Synthesis of Relevant Molecules and Beyond*", *115.500 Euro*.
- Juan de la Cierva postdoctoral "*incorporación*" fellowship **2018** (Ref: IJCI-2017-33878), Bart Limburg, *70.000 Euro.*
- China Scholarship Council (CSC) PhD fellowship to Chang Qiao, **2018–2022** (Ref: 2018-06200078) "*Using Terpene Building Blocks towards Biobased Polycarbonates and Polyesters*", *48.000 Euro*.
- ICIQ/La Caixa valorization grant – project Bio-Logical! (**2018**); using biobased polymers derived from terpenes in new material development, estimated *10-15 kEuro*
- "Convocatòria d'ajuts per donar suport a les activitats dels grups de recerca de Catalunya" (SGR **2017-2019**) – reference 9015-361170/2017 (2017-SGR-232), *44.480 Euro*.
- MINECO research project **2018-2020** "*Stereo and Enantioselective Valorization of Functional Heterocycles*", RE-CYCLE-IT (Ref: CTQ2017-88920-P), *154.880 Euro.*
- China Scholarship Council (CSC) PhD fellowship to Kun Guo, **2017-2021** (Ref: 2017-06920025) "*Decarboxylative Functionalization of Vinyl Carbonates using Carbon Nucleophiles*", *48.000 Euro.*
- FPI/SO fellowship **2017-2021** Cristina Maquilón (Ref: SEV-2013-0319-17-3/BES-2017-081151) "*Substrate-assisted catalytic conversion of carbon dioxide into fine chemicals*", MINECO, *92.750 Euro*.
- China Scholarship Council (CSC) PhD fellowship to Jianing Xie, **2016-2020** (Ref: 2016-06200061) "*New Opportunities for CO_2 Conversion into Monomers and Polymers*", *48.000 Euro*.

- Marie Curie COFUND/Severo Ochoa program, postdoctoral grant Rui Huang, **2016-2018** (Ref: ICIQ-IPMP-2015-1) "*In Situ Spectroscopic Analysis of Catalytic Intermediates in CO_2 Conversion Catalysis*", *79.400 Euro*.
- Marie Curie COFUND/Severo Ochoa program, postdoctoral grant **2016-2018** Nicole Kindermann (Ref: ICIQ-IPMP-2015-7) "*Advancing New Modes of CO_2 Activation and Application thereof in Organic Synthesis*", *79.400 Euro.*
- FPI/SO fellowship **2015-2019** José Enrique Gómez (Ref: BES-2015-072614) "*Advancing new modes of CO_2 activation in organic chemistry*", MINECO, *70.000 Euro*.
- Marie Curie COFUND/Severo Ochoa postdoctoral grant **2015-2017** Tharun Jose (Ref: ICIQ-IPMP-2015-1) "*New catalytic systems for continuous flow conversion of CO_2*", *79.000 Euro*.
- FPI predoctoral fellowship **2014-2017** (Ref: BES-2012-061904), related to CTQ2011-27385 project, *75.000 Euro*.
- MINECO research project **2015-2017** "*DESAROLLA DE NUEVAS METODOLOGIAS EFICIENTES PARA LA SINTESIS DE BIO-CARBONATOS*" (Ref: CTQ2014-60419-R), *151.250,00 Euro*
- FI predoctoral fellowship **2014-2017**, reference FI-DGR 2014 (G43619550), Generalitat de Catalunya (AUGUR), *60.000 Euro.*
- FPU fellowship **2015-2017** (Ref: FPU14/00178) "*Desarrollo de Sistemas Catalíticos y Metodologías Para la Inserción del Dióxido de Carbono en Síntesis Química*", MINECO, *40.000 Euro*.
- MINECO-Severo Ochoa PhD grant **2015-2018** (Ref: SEV-2013-0319-01) "*Activation of Small, Carbon-Based inert Molecules*", *70.000 Euro*.
- Marie Curie IEF fellowship **2014-2016** (MSCA, Ref: FP7-PEOPLE-2013-IEF, RENOVACARB-622587 from the European Union, *166.336 Euro*
- Cellex-ICIQ postdoctoral grant (*Discovery of New Catalysts for the Synthesis of Bio-Renewable Polymers and Heterocyclic Structures Incorporating CO_2 as a Synthon*) **2014-2016**, *70.000 Euro*.
- Marie Curie COFUND program grant (Ref: ICIQ-IPMP-2013-1) **2013-2016**, *42.000 Euro*.
- Tecniospring grant/ACCIÓ **2013** reference TECSPR13-1-0042 (ConduNT), Generalitat de Catalunya & Marie Curie scheme, *88.552,88 Euro*.
- MICINN research project **2012-2014**, reference CTQ2011-27385, "*Conversión catalítica de CO_2 sobre condiciones suaves utilizando complejos de tipo metallosalen*", *170.000 Euro*.
- Industry collaborative project with Sabic **2011-2013**, *180.000 Euro*.
- Postdoctoral grant through the Programa Consolider Ingenio 2010 program from MICINN, reference "INTECAT", **2011-2013**, *72.000 Euro*.
- Contract research for Hexion Specialty Chemicals **2010** "*New Methodologies towards Fine Chemical Intermediates*", *10.000 Euro*.
- Contract research for Uquifa S.L. (Catalonia, Spain) **2010** "*Synthesis of a Pharmaceutical Drug Component*", *83.000 Euro*.
- Contract research for DOW Chemicals Benelux **2009** "*Synthesis of a dinuclear Zn complex*", *1250 Euro*.
- FPU predoctoral fellowship from MICINN **2009-2011** (Ref: AP2009-4561), *50.000 Euro*.

- Torres Quevedo grant from MICINN **2009-2011** (Ref: PTQ-09-01-00044), *21.884 Euro*.
- FPU predoctoral fellowship from MICINN **2008-2011** (Ref: AP2008-02356), *37.000 Euro*.
- FPU predoctoral fellowship from MICINN **2007-2010** (Ref: AP2007-03771), *37.000 Euro*.
- MICINN research project **2009-2011** (Ref: CTQ2008-02050), *143.000 Euro.*

3. Lecture Record since 2008

- **2025**: Invited lecture at University of Bayreuth, date to confirm
- **2025**: Invited lecture in Tübingen, date to confirm
- **2025:** Invited lecture at the Green Chemistry Centre York (UK), date to confirm

- **2025**: Plenary lecture at the Symposium on Biobased Polymers (Tübingen, Germany), October 9: "**Title**"
- **2025**: Invited lecture at the Gordon Research Conference on Heterocyclic Compounds (Newport, Salve Regina University, USA), June 22-27: "**Title**"
- **2025**: Invited lecture at the University of Parma (Italy), April 23: "**Title**"
- **2025**: Invited lecture at the University Milano Statale (Italy), April 22: "**Title**"
- **2024**: Invited lecture at the RSC Symposium on Chemical Feedstocks for Sustainable Industry (London, UK), December 12-13: "Catalytic Upgrading of Terpenes and Fatty Acids into Functionalized Polymers"
- **2024**: Invited lecture at the SCQ mini-congress "*Highlighting Organic Chemistry in Catalonia*" (auspices by EuCheMS), November 8: "Photocatalytic Strategies to Rapidly Access Molecular Complexity"
- **2024**: Invited lecture at WS2 "Polymer Synthesis" of *D*-Carbonize (Rennes, France), October 14+15: "Creation of Functional Monomers from Carbon Dioxide"
- **2024**: Invited lecture at the "Emerging Landscape of Organometallic Chemistry and Catalysis" symposium (virtual symposium at the ACS Fall meeting; Jitendra K. Bera), August 18-22: "Metal-Promoted Stereoselective Formation of Densely Functionalized Small Molecules"
- **2024**: Invited lecture at State Key Laboratory of Advanced Technology for Material Synthesis and Processing, Wuhan University of Technology (China), August 1: "Catalysis to Create Value from Carbon Dioxide and Biomass"
- **2024**: Plenary lecture at the 12th Workshop on Fats and Oils as Renewable Feedstock for the Chemical Industry (Dortmund, Germany), June 3-5 "Fatty Acid and Terpene Oxides as Versatile Precursors for Biobased Engineering Macromolecules"
- **2024**: Invited Seminar at the University of Crete (Greece), May 31: "Taming and Shaping the Synthetic Chemistry of Organic Carbonates through Catalysis"
- **2024**: Invited Seminar at the Universidad de Valladolid (Spain), May 23th: "Stereoselective Synthesis Empowered by Transition Metal Catalysis and Photochemistry"
- **2024**: Invited Lecture at "8ª-Jornadas Red CASI" (Fuenterrabía), April 10+11 "Asymmetric Synthesis of Small Molecules Featuring Sterically Congested Carbon Stereogenic Centers"
- **2024**: Invited Lecture at the Autónoma University of Madrid (UAM), March 8: "Stereoselective Synthesis Empowered by Transition Metal Catalysis and Photochemistry"
- **2024**: Keynote lecture at the SISOC XIV (Torino, Italy), February 24-27: "Advancing the Synthesis of Congested Stereogenic Centers"
- **2024**: Invited lectures at the CaRLa Winter School on Homogeneous Catalysis (Heidelberg), February 11-16: 1st "Transition Metal Catalyzed Formation of

Sterically Challenging Stereocenters and Mechanistic Interpretation"; 2nd "Sustainable (Polymer) Catalysis for a Greener Future"

- **2024:** Plenary lecture at the 13ª Trobada de Joves Investigadors dels Països Catalans, Secció Jove de la Societat Catalana de Química (Tarragona, Spain), 29-31 January: "Striving towards Circularity in the Catalytic Formation of Biobased Polymers"
- **2023:** Invited lecture at the ICOS-23 conference (Shanghai, China), October 15-20: "Catalytic Creation of Sterically Challenging Stereogenic Centers"
- **2023**: Invited lecture at the organic seminar series at the EPFL (host: Jerome Waser), September 25: "TM-catalyzed Formation of Bulky Stereogenic Centers: Concepts and Mechanistic Insights"
- **2023**: Keynote lecture at the EUCOMC XXV (Alcalá de Henares, Spain), September 4-8: "Catalytic Creation of Sterically Challenging Stereogenic Centers: Concepts and Mechanistic Insights"
- **2023**: Plenary lecture at the 6th EuChemS Conference on Green and Sustainable Chemistry (Salerno, Italy), September 3-6: "Empowering Carbon Recycling through Catalysis – Concepts and Opportunities"
- **2023**: Invited lecture at the ICCDU-XX (Bari, Italy), June 25-29: "Advancing the Non-Reductive Catalytic Transformation of Carbon Dioxide"
- **2023**: Invited lecture at the SCQ annual award ceremony (Barcelona), June 22: "A Catalytic Journey in Carbon Management and Recycling"
- **2023**: Keynote lecture at the 1st International Workshop of Green Chemistry, Cartagena (Murcia, Spain; https://www.iwsuschem2023.org/), May 8-11: "Catalytic Diversification using Carbon Dioxide: Functional Heterocycles and Polymerizable Monomers"
- **2023**: Invited lecture at the Aachen-Maastricht Institute for Biobased Materials (AMIBM, the Netherlands, Prof. Romano Orru), March 23: "Catalysis as a Key Approach to Upgrade Renewable Carbon into Chemicals and Polymers"
- **2023**: Invited lecture at the University of Helsinki (Prof. Timo Repo), March 10: "Catalytic Diversification using Carbon Dioxide: Towards Functional Heterocycles and Polymerizable Monomers"
- **2022**: Invited lecture at the lecture program of ICBMS at the University of Lyon (Lyon, France), November 24 "Catalysis for CO_2 Conversion and Stereoselective Decarboxylative Cross-Coupling Reactions"
- **2022**: Invited lecture at the S3Chem Smart Chemistry Specialization Strategy meeting organized by ACCIO (Tarragona, ICIQ), September 13+14 "Design, Synthesis and Recycling of (Potentially) Circular Polymers"
- **2022**: Plenary lecture at the Circuit Summer School (Quebec City, Canada), August 2+3: "Recycling and Valorization of Renewable Carbon Sources through Catalysis"
- **2022**: Keynote lecture at the ISGC conference (La Rochelle, France), May 19: "Upgrading Renewable Carbon to Chemicals and Polymers through Catalysis"
- **2022**: Invited lecture at the "Carbon Capture and Utilization: Challenges and Opportunities in Catalysis" conference organized at KAUST-SA (host: Kuo-Wei Huang), May 17 "Advancing Carbon Dioxide Management through Catalysis"
- **2022**: Keynote Lecture at XVI Reunión del Grupo Especializado de Polímeros GEP de la Real Sociedad Española de Química (San Sebastián, Spain), May 11: "Functional Polyesters and Polycarbonates from Renewable Carbon Sources"

- **2022**: Invited lecture at Delft University (host Prof. A. Urakawa), February 23: "Carbon Management Catalysis: Closing the Loop?"
- **2022**: Invited lecture for the Lecture Series of ICRI-BioM (Lodz, Poland), director Prof. Alexander Steinbüchel, February 25: "Catalytic Biomass Valorization: Taming a Sustainable Future"
- **2022**: Online lecture at Henkel (host: Dr Ligang Zhao), February 11: "Biopolymers derived from terpenes and fatty acids: access to functional polyesters and polycarbonates"
- **2021**: Invited seminar (virtual) at the University of Tokyo (host: Prof. Hirohiko Houjou), November 16: "Expanding Chemical Space for the Catalytic Upgrading of Carbon Dioxide"
- **2021**: Plenary lecture at the 5th EuChemS conference on Green and Sustainable Chemistry 5EUGSC (Prof. Konstantinos S. Triantafyllidis), September 29: "Exploring and Expanding Carbon Dioxide Chemical Space Through Novel Catalysis Approaches".
- **2021**: Invited lecture at the IUPAC CCCE 2021, symposium "*New Frontiers in Biodegradable and Bioderived Polymers*" (Prof. Chris Kozak), August 13-20: "Biopolymers derived from Terpenes: Access to Functional Polyesters and Polycarbonates".
- **2021**: Plenary virtual lecture at the "Sustainable Chemistry Lecture Series", SCLS (Prof. Shoubhik Das), May 20: "Carbon Dioxide as C1 Resource in Catalytic Upgrading"
- **2021**: Invited virtual lecture Green Chemistry Group of the Italian Chemical Society (SCI, Prof. Carmine Capacchione), April 27: "Carbon Dioxide as a Feedstock for Fine Chemical and Functional Polymer Development"
- **2021**: Invited virtual lecture at the MRS Spring Meeting & Exhibit 2021, in the symposium *Progress in green chemistry approaches for sustainable materials* (Prof. Christine Jerome), April 17-23: "Terpenes as Feedstock for Polymers: Structural Diversity and Post-Synthetic Opportunities"
- **2020**: Invited lecture at the 5th Green & Sustainable Chemistry Conference (Bonn, Germany), November 10+11: "Catalytic Recycling Strategies for Carbon Dioxide and its Conversion into Polymerizable Monomers"
- **2020**: Plenary lecture at 1st Young Chemists Summit in Austria (Innsbruck), September 22: "Catalysis for Improved Waste Management: Can Value be Merged with Sustainability? "
- **2020**: ICIQ internal seminar (Tarragona), July 3: "Creating and Transforming CO_2-based Heterocycles using Catalysis"
- **2020**: Invited lecture at the University of Twente (the Netherlands), March 2: "Creating Value: Empowering Catalysis as Enabling Technology for the Conversion of Renewables"
- **2020**: Invited lecture at KAUST (Saudi Arabia), Carbon Capture and Utilization: Challenges and Opportunities, February: "Building up Complexity through Stereoselective Transformations of Modular Heterocyclic Substrates"
- **2020**: Invited lecture at the Organisch-Chemisches Institut, Westfälische Universität Münster (Germany), January 14: "Upgrading CO_2 based Heterocycles through Diastereo- and Enantioselective Synthesis"
- **2020**: Invited lecture at BASF (Münster, Germany), January 15: "Turning Waste into Value through Catalysis: Fine-Chemical and Polymer Synthesis"

- **2019**: Invited lecture at the Universitat de Barcelona (Spain), November 7: "From Carbon Dioxide to Heterocycles and Beyond: Stereoselective and Asymmetric Synthesis"
- **2019**: Invited Lecture at Sichuan University, College of Chemistry (host: Prof. Da-Gang Yu), October: "Carbon Dioxide based Heterocycles: From their Conception to Applications in Stereocontrolled Synthesis"
- **2019**: Invited Lecture at Xi´an Jiaotong University, Frontier Institute of Science and Technology (FIST), (host: Prof. Wusheng Guo), October: "Carbon Dioxide based Heterocycles: From their Conception to Applications in Stereocontrolled Synthesis"
- **2019:** Invited Keynote at the International Green and Sustainable Chemistry Conference (Beijing, China), October: "Carbon Dioxide Based Heterocycles: New Concepts and Opportunities"
- **2019:** Invited Keynote lecture at the ICCDU (Aachen, Germany), June: "New Catalytic Approaches for CO_2 Valorization into Heterocycles"
- **2019**: Invited lecture at the University of Amsterdam, Van ´t Hoff Institute for Molecular Sciences (Amsterdam, The Netherlands), June: "Transition Metal Mediated Formation of Elusive Stereocenters through the Use of CO_2-based Synthons"
- **2019**: Invited lecture at Mercachem (Nijmegen, The Netherlands), June: "Stereoselective and Asymmetric Synthesis of Small Molecules Empowered by Carbon Dioxide"
- **2019**: Invited lecture at the University of Groningen, Stratingh Institute (Groningen, The Netherlands), June: "Transition Metal Mediated Formation of Elusive Stereocenters through the Use of CO_2-based Synthons"
- **2019**: Invited Lecture at Syncom BV (Groningen, The Netherlands), June: "Stereoselective and Asymmetric Synthesis of Small Molecules Empowered by Carbon Dioxide"
- **2019**: Invited Lecture at Lubrizol (Montmeló, Spain), April: "Catalytic Preparation of Polyesters, Polycarbonates and Polyurethanes derived from Renewable Feedstock"
- **2019:** Invited lecture at the University of Salerno (Italy, Prof. Carmine Capacchione), May: "From CO_2 to Value: A Catalytic Journey"
- **2018**: ACCIÓ day on Interreg S3Chem "Smart Chemistry Specialization Strategy", November: "Polímers que incorporen CO_2 i Llimonè"
- **2018**: Research visit to the Universitat Politècnica de Catalunya (Prof. Carlos Alemán´s group), November: "Catalytic Preparation of Polyesters and Polycarbonates derived from Renewable Feedstock"
- **2018**: Invited lecture at the University of Tokyo (Japan; Prof. Kyoko Nozaki), August: "Tsuji-Trost inspired Stereoselective and Asymmetric Synthesis of Allylic Scaffolds"
- **2018**: Invited lecture at the ICCC-2018 in Sendai (S49, Japan), August: "A Domino Approach towards the Synthesis of Elusive Heterocycles from Carbon Dioxide"
- **2018**: Invited lecture at the University of Osaka (Japan; Prof. Satoshi Minakata), July: "Tsuji-Trost Chemistry as Inspiration for Stereoselective Synthesis from Small Heterocyclic Scaffolds".
- **2018**: Invited Lecture at the ICOMC-28, Florence (Italy), July: "Carbon Dioxide Based Heterocycles in Asymmetric Catalysis Space"

- **2018**: Invited lecture at XXVII RSEQ Bienal Meeting of Organic Chemistry (Santiago de Compostela, Spain), June: "Beyond Classical Reactivity in Decarboxylative Tsuji-Trost Transformations"
- **2018**: Invited lecture at the VI Workshop on Sustainable Chemistry Tools in Green Chemistry, Universitat Jaume I (Castellón), May: "Catalysis as a Key Enabling Technology for CO_2 Valorization"
- **2018**: Invited lecture at the conference *´Plastics are Future´* symposium in Valencia (Spain), April: "Innovadores Biopolímeros a partir de CO_2 ¿Un nuevo Camino hacia los Policarbonatos sin Bisfenol?"
- **2018**: Invited lecture at the Vrije Universiteit van Amsterdam (The Netherlands), March: "Exploring Organic Chemistry Space with Cyclic Carbonates"
- **2018**: Invited lecture at the 6th Conference on Carbon Dioxide as Feedstock for Fuels, Chemistry and Polymers (Cologne, Germany), March: "Where Carbon Dioxide and Terpenes Merge into Biopolymers: Creating Potential as Platform Molecules for the Polymer Industry"
- **2018**: Invited lecture at the Molecular Science and Nanosystems Department from the Università Ca' Foscari Venezia (Italy), February: "Substrate-Controlled Activation of CO_2 towards Molecular Complexity"
- **2018**: Invited lecture at the "Small Molecules Workshop" in Venice (Italy), February: "Catalytic Valorization of Carbon Dioxide and Beyond in Organic Chemistry Space"
- **2017**: Invited lectures at the ICASEC Summer School 2017 in Göttingen (Germany), September: "Concepts and Strategies in CO_2 conversion and Valorization", and "Building up Molecular Complexity with CO_2: Fine-Chemicals, Pharmaceuticals and Biobased Polymers".
- **2017**: Keynote lecture at the 3EUGSC in York (UK), September: "Modulation of Thermal Properties of Terpene-Based Polymers: Access to Unusually High Glass Transitions"
- **2017**: Invited lecture at Shanghai Jiao Tong University (China), July: "Carbon dioxide and Terpenes: From Waste to Value"
- **2017**: Invited talk at Sun Yat-Sen University, Guangzhou (China), July: "Carbon Dioxide in Advanced Organic Synthesis"
- **2017**: Invited talk at the State Key Laboratory and Institute of Elemento Organic Chemistry, Nankai University (China), July: "Carbon Dioxide in Advanced Organic Synthesis"
- **2017**: Invited talk at the Institute of Process Engineering (IPE), Chinese Academy of Sciences (CAS), Beijing (China), July: "Catalytic Preparation of Functional Cyclic Organic Carbonates"
- **2017**: Invited talk at the State Key Laboratory of Fine Chemicals, Dalian University of Technology (China), July: "Valorization of Organic Carbonates and Related Heterocycles"
- **2017**: Keynote lecture at the ICCDU-XV in Shanghai (China), July: "Building Up Molecular Complexity from Carbon Dioxide"
- **2017:** Lecture at the XXXVI Reunión Bienal de la Real Sociedad Española de Química (RSEQ) in Sitges (Spain), June: "Carbon Dioxide: A Source of Renewable Carbon in Fine-Chemical Synthesis"

- **2017**: Invited Lecture in the MSE symposium of the Vidyasirimedhi Institute of Science and Technology in Rayong (Thailand), May: "Catalysis for CO_2 Valorization: Organic Carbonates as Synthetic Targets and Intermediates"
- **2017**: Invited Lecture at the 2nd SusChem/PTECO_2 joint conference *Use and Transformation of CO_2* (Tarragona, Spain), May: "Modulation of Thermal Properties of Biobased Poly(limonene)-bis-Carbonates: Access to Unusually High Glass Transitions"
- **2017**: Invited seminar at Henkel AG & Co (Dusseldorf, Germany), April: "Catalytic Conversion of Renewable Compounds: Access to Biobased Polymers with Modular Properties"
- **2017**: Invited Lecture at LIKAT Rostock (Germany), January: "Cyclic Organic Carbonates: Synthesis and Application in Stereo- and Enantio-Selective Synthesis"
- **2016**: Invited lecture at the University of Liège (Belgium), November: "Organic Carbonates relevant for Fine Chemical and Polymer Applications"
- **2016**: Keynote lecture at the ICCDU-16 Sheffield (UK), September: "Catalytic Conversion of CO_2 towards and beyond Organic Carbonates"
- **2016**: Invited Lecture at Sheffield Hallam University (UK), September: "Vinyl Carbonates as Versatile Scaffolds in Stereo- and Enantioselective Synthesis"
- **2016**: ICCC-42 Brest (France), July: "A Sustainable, Regio- and Stereoselective Formation of Highly Substituted (*Z*)-Allylic Amines"
- **2016**: Keynote at the Canadian Chemistry Conference (CSC, Halifax/Canada), June: "Sustainable Metals for Efficient CO_2 Conversion into Fine Chemicals and Polymers"
- **2016**: Invited Lecture at the 2nd Small Molecule Activation Conference (Cancun, Mexico), May: "Small Molecule Catalysis using CO_2: Access to Valuable Organic Motifs"
- **2016**: Invited Lecture at the Carisma Meeting CM1205 (Ljubljana, Slovenia), March: "A Stereo-Selective Formation of Highly Substituted (*Z*)-Allylic Amines"
- **2016**: Invited Lecture at the University of Padova (Italy), March: "Carbon Dioxide Mediated Organic Synthesis Through Metal- and Organo-Catalysis"
- **2015**: 19th Annual Green Chemistry & Engineering Conference (Bethesda, USA), July: "Access to Renewable Biopolymers from Limonene and Carbon Dioxide"
- **2015**: 19th Annual Green Chemistry & Engineering Conference (Bethesda, USA), July: "Diastereoselective Preparation of cis-Diols from Organic Carbonates: Using CO_2 as a Temporary Protecting Group"
- **2015**: ICCDU-XIII Singapore, July: "Catalytic Organic Synthesis Using Organic Carbonates as Versatile Intermediates"
- **2015**: Invited Lecture at the Bienal RESQ (La Coruña), July: "Al(III) and Fe(III) Catalysts for the Conversion of Carbon Dioxide into Value-Added Organic Compounds and Polymers"
- **2015**: Invited Lecture at the Institute of Bioengineering & Nanotechnology (Singapore), July: "Catalytic Conversion of a Waste Material: Carbon Dioxide Valorization"
- **2015**: Invited Lecture at the RedINTECAT (CTQ2014-52974-REDC) meeting (Zaragoza), September: "Catalytic Upgrading of CO_2 to Value-Added Chemicals"
- **2015**: International Symposium on Green Chemistry (ISGC-3) May: "Advancing the catalysis of highly substituted oxiranes/CO_2 coupling reactions".

- **2015**: University of Leuven (Belgium), March: "Valorization of Carbon Dioxide: New Opportunities in Biorenewable Polymer and Carbamate Synthesis"
- **2015**: 1st SusChem/PTECO_2 joint conference "Use and transformation of CO_2" (Madrid, Spain), February: "Creating Value from CO_2 and Renewable Feed Stocks: Biopolymer Synthesis"
- **2015**: Workshop RedIntecat (CTQ-2014-52974-REDC) (Tarragona), February: "CO_2 Catalysis, Renewables and Beyond"
- **2014**: Keynote at 7th Green Solvents Conference in Dresden (Germany), October: "Solvent-Controlled Reactivity and Selectivity Profiles in Carbon Dioxide Conversion Catalysis"
- **2014**: ICCC-41 conference in Singapore (Singapore) July: "Highly Active and Selective Carbon Dioxide Conversion Catalysts"
- **2014**: COST CM1205 (Carisma) congress (Venice, Italy) May: "Carbon Dioxide as a Temporary PG: Efficient Synthesis of Cyclic Cis-Diol Scaffolds"
- **2013**: ACS spring meeting New Orleans, Special ENFL Symposium on CO_2, April: "CO_2 Conversion into Organic Carbonates using a Metallosalen Catalyst: New Insights from DFT Analysis"
- **2013**: ISGC-2 conference La Rochelle (France), May: "Merging Organocatalysis and CO_2 Fixation: Efficient Synthesis of Organic Carbonates under Mild Conditions"
- **2013**: ICCDU-12 conference Alexandria (USA), June: "A powerful Al(III) catalyst for highly functional organic carbonate formation".
- **2013**: University of Leuven (Belgium), January: "New Powerful Catalysts in the Context of CO_2 Conversion".
- **2013**: Symmetry Festival Delft (The Netherlands), August: "Supramolecular Chirality at the Molecular Level and Beyond"
- **2013**: NOVA 2nd Conference on CO_2 as Feedstock for Chemistry and Polymers (Essen, Germany), October: "Catalytic Potential of Amino-Trisphenolate Complexes in Polycarbonate Synthesis"
- **2013**: JSCC-Coordination Chemistry meeting in Okinawa (Japan), November: "Neural Networks through Self-Assembly and their Use as CNT Dispersing Materials"
- **2013**: Graduate School of Engineering Science, Osaka University (Japan), October: "Carbon Dioxide as a Molecular Building Block in Organic Synthesis"
- **2013**: Department of Chemistry, University of Tsukuba (Japan), October: "Self-Assembly of Molecular Building Blocks: Building up Complexity"
- **2013**: JSCC-Coordination Chemistry meeting on Okinawa (Japan), November: "Neural Networks through Self-Assembly and their Use as CNT Dispersing Materials"
- **2013**: Department of Biology and Chemistry, Distinguished BCH Seminar, City University of Hong Kong, November: "Self-Assembly of Molecular Building Blocks: Building up Complexity"
- **2013**: Zing Coordination Chemistry Conference (Xcaret, Mexico), December: "Coordination compounds for the construction of functional nanomaterials"
- **2012**: ISMEC conference Lisbon (Portugal), June: "Supramolecular Chirogenesis with Schiff base Complexes: A Gateway for Determination of Absolute Configurations"
- **2012**: ICC-15 conference Munich (Germany), July: "Fe(III) Catalyzed Synthesis of Five- and Six-Membered Organic Carbonates"

- **2012**: ICC-15 conference Munich (Germany), July: "Synergistic effects in energy-efficient organocatalysed formation of organic carbonates"
- **2012**: ICCC-40 conference Valencia (Spain), September: "Effective Supramolecular Chirogenesis Effects using Schiff Base Hosts"
- **2012**: "Giving Wings to Homogeneous Catalysts", Symposium honoring the 70th birthday of Piet van Leeuwen, Tarragona (Spain), February: "When Salen Structures Enter the Field of Homogeneous Catalysis"
- **2012**: COST CM1003 meeting Padova (Italy), May: "Reactivity control in Fe(III) complexes supported by amino triphenolate ligands"
- **2012**: Visit to PolyMaterials GMBH, Kaufbeuren (Germany), September: "Schiff Base Structures in Self-Assembly and Materials Chemistry"
- **2012**: University of Oxford (UK), September: "Carbon Dioxide as Reagent: Efficient Catalytic Strategies for its Conversion".
- **2011**: University of Girona (Spain) March: "Self-Assembly of Zn-based Salen Scaffolds: Cooperativity and Stability"
- **2011**: NCCC-XII conference (Noordwijkerhout, The Netherlands) March: "Supramolecular chirogenesis in metallosalen structures using carboxylic acids"
- **2011**: EICC-1 conference (Manchester, UK) May: "The peculiar case of tetra-coordinated square planar Zn(II)"
- **2011**: ICCDU-XI conference (Dijon, France), May: "Ambient Carbon Dioxide Fixation Catalysis"
- **2011**: ZING Coordination Chemistry Conference (Xcaret, Mexico), December: "Ambient Fixation of Carbon Dioxide: Myth or Reality?"
- **2010**: VU University Amsterdam (Netherlands) August: "Chirogenesis and Homogeneous Catalysis with Metallosalen Architectures"
- **2010**: CAFC-9 conference (Zaragoza, Spain) October: "Enantioselective approaches towards chiral cyclic carbonates"
- **2010**: COST D-40 meeting Ankara (Turkey) May: "Metallosalen Diversity: From Cooperative Catalysis to Carbon Dioxide ´Fixation´ Chemistry"
- **2010**: PACIFICHEM 2010 (Honolulu, USA) December: "Supramolecular assembly behavior and catalytic features of macrocyclic metallosalen structures"
- **2009**: Royal Dutch Chemical Society (KNCV) meeting (Amsterdam, The Netherlands) May: "Metathesis as a convenient preparative tool for multinuclear metallosalens and their catalytic application in the hydrolytic kinetic resolution of (*rac*)-epoxides"
- **2009**: University of Utrecht (The Netherlands) September: "Metallosalens: Modular Synthons for New Materials"
- **2008**: Royal Dutch Chemical Society (KNCV) meeting section Organic Chemistry (Groningen, The Netherlands) May: "New Applications for Salen Frameworks: Colorimetric Sensors and Homogeneous Catalysis"
- **2008**: DCC workshop (Tarragona, Spain) February: "Self-Assembling Heteromultimetallic Salen Structures: Towards Bimetallic Cooperative Catalysis"
- **2008**: LCC-ICIQ joint institutional meeting (Tarragona, Spain) January: "Self-Assembling Heteromultimetallic Salen Structures: Towards Bimetallic Cooperative Catalysis"
- **2008**: IMM-ICIQ joint institutional meeting (Nijmegen, The Netherlands) April: "The Renaissance of an ´Old´ Ligand Framework: - The Salens are Comin´"

4. Organizational Activities

- ***Organizer*** of the 1st Bilateral Organic Chemistry meeting between the KNCV and RSEQ, Tarragona, November **2025**.
- ***Co-organizer*** of the symposium "Quimica Verde – Green Chemistry" at the Bienal de RSEQ in Bilbao, June 30-July 3, **2025**. Invited main speakers: Paul Anastas (Yale, US), John Warner (Warner-Babcock Institute for Green Chemistry, US), Katalin Barta (Graz, Aus).
- ***Co-organizer*** of the 2nd Reunió de Química Inorgànica I Organometàl·lica de la Societat Catalana de Química (SCQ) in Tarragona, February 5-7, **2025**. Invited plenaries included: Cathleen Crudden (Kingston, Ontario, Can.), Per-Ola Norrby (AstraZeneca, Swe), Eva Rentschler (Mainz, Ger).
- ***Chair*** of the **2019** ICIQ Summer School on "Chemical Technologies for CO_2 conversion" (Tarragona, Spain), 65 participants. Invited speakers: Atsushi Urakawa (TU Delft), Etsuko Fujita (Brookhaven National Laboratory, US), Jürgen Klankermayer (Aachen), Andreas Greiner (Bayreuth, Germany), Burkhard König (Regensburg), Victor de la Peña (IMDEA, Madrid), Cristina Saenz (Orchestra).
- ***Chair*** of the *EUCHEMS conference on Green Chemistry* **2019** (Tarragona), 149 participants. Invited plenary/keynote speakers: Walter Leitner (Aachen, Germany), Paul Dyson (EPFL, Lausanne), Roger Sheldon (Delft University), Ben Buckley (Loughborough University), Michael Meier (U-Karlsruhe), Alessandra Quadrelli (Lyon), Nuria López (ICIQ, Spain), Siegfried Waldvogel (U-Mainz), David Cole-Hamilton (U-St. Andrews), Michael North (York), François Jérôme (Poitiers), Javier Pérez-Ramírez (ETH Zürich), Steve Nolan (Ghent), Ioannis Katsogiannis (Thessaloniki), Marcella Bonchio (Padova), Sophie Guillaume (Rennes).
- ***Co-organizer*** with Profs. Carmen Claver and Francisco José Fernández Álvarez of the symposium "Catalytic Small Molecule Activation and CO_2 Valorization" at the BIENAL-RSEQ in San Sebastian (Spain), **2019**. Main speakers: Antoine Buchard (Bath University, UK), Jarl-Ivar van der Vlugt (Universiteit van Amsterdam, NL), Blaž Likozar (Ljublana, Slovenia), Marc Robert (Paris Diderot University, France).
- ***Member*** of the local organizing committee of *TrapCat-2* (Trans Pyrenean Meeting in Catalysis) in **2018** (October 18-19, Tarragona), around 90 participants. Main Speakers: Joost Reek (UvA, Amsterdam), Javier Pérez-Ramírez (ETH Zürich), Tibor Soos (HAS Institute, Budapest), Marc Robert (University Paris Diderot).
- ***Organizer*** of the symposium S49 "Catalytic Valorization of Carbon Dioxide" at the International Conference on Coordination Chemistry (43rd ICCC, **2018**) in Sendai, Japan. Main speakers: Xiao-Bing Lu (Dalian, China), Tadashi Ema (Okayama, Japan), Da-Gang Yu (Chengdu, China), Tohru Yamada (Yokohama), Liang-Nian He (Nankai, Tianjin).
- ***Co-organizer*** of the second Spanish meeting entitled "Aportando Valor al CO_2" May 9-10, **2017**, ICIQ – Tarragona. Main Speakers: Hermenegildo García (ITQ, Valencia), Carmen Claver (URV/CTQ, Tarragona), Atsushi Urakawa (ICIQ, Tarragona), José Ramón Ochoa (Tecnalia, Spain), James Leeland (Econic, Manchester), Víctor A. de la Peña O'Shea (IMDEA Energía, Madrid), Juan Ramón Morante (IREC, Spain).

- ***Chair*** of the *Carbon Dioxide Conversion Catalysis* CDCC-1 conference **2016** (Albufeira, Portugal). Main Speakers: Michael North (York, UK), Thomas Müller (Aachen/Covestro, Germany), Charlotte Williams (Oxford, UK), Thomas Werner (LIKAT, Rostock), Kyoko Nozaki (Tokyo), Keiichi Tomishige (Tohuku, Japan), Peter Styring (Sheffield, UK), Christophe Copéret (ETH Zürich, Switzerland), Thibault Cantat (IRAMIS, CEA, France).
- ***Co-organizer*** of the Retirement Symposium for Prof. Javier de Mendoza **2014**. Main speakers: Jean-Marie Lehn (Strasbourg, Nobel Laureate), Roeland Nolte (Nijmegen), Tomas Torres (Madrid), Jean-Pierre Sauvage (Strasbourg, Nobel Laureate).
- ***Chair*** of the organizing committee of the Van der Kerk Symposium **1999**, "*New Faces in the Dutch (In)organic Chemistry and Catalysis*", 100-120 participants. Main speaker: Ludger Wessjohann (Leibniz).
- ***Co-organizer*** of the Van der Kerk Symposium **1998** "*Functional Dendrimers, a Challenge in Catalysis and Materials*". Main speakers: Holger Frey (Mainz), Dieter Vogt (Aachen; now at: TU Dortmund, Germany).
- ***Co-organizer*** of the Van der Kerk Symposium **1997**, "*Structure and Reactivity of Organo-Copper Compounds*", 100-120 participants. Main speakers: Norbert Krause (Dortmund), Hans Bock (Frankfurt).

5. Editorial & Advisory Boards

- Advisory board member for *Advanced Synthesis & Catalysis* (Wiley), **2025**→
- Advisory board member for *Green Chemistry* (RSC), **2025**→
- Advisory board member for *Sustainable Chemistry for the Environment* (Elsevier), **2023**→
- Editorial board member of *Industrial Chemistry & Materials* (ICM, RSC), **2022**→
- Associate Editor for *Green Synthesis and Catalysis* (Elsevier), **2021**→
- Advisory board member for *ChemCatChem* (Wiley), **2021**→
- Advisory board member for *ACS Sustainable Chem Engin* (ACS), **2021**→
- Editorial board member for *ChemSusChem* (Wiley), **2020**→
- Associate Editor for *Organic Chemistry Frontiers* (RSC), **2019**→
- Invited Guest Editor for *Advanced Synthesis and Catalysis* (Wiley) **2019** (special issue on catalytic CO_2 conversion into organic compounds)
- Editorial board member for *Molecules* **2017**-**2020** (MDPI)
- Editorial board member for *Journal of CO_2 Utilization* (Elsevier) **2017**→
- Invited guest editor for *ChemSusChem* in **2017** (special issue on CO_2 catalysis)
- Advisory board member of *ChemSusChem* (Wiley) **2016**–**2019**
- Editorial board member for *Current Organic Chemistry* (Bentham), **2014**–**2020**
- Invited Guest Editor for *Catalysis Science & Technology* (RSC) in **2014** for a special issue concerning CO_2 conversion catalysis.
- Advisory board member for *Supramolecular Catalysis* (Versita Publishing), **2013**–**2015**
- Editorial board member for *ISRN Inorganic Chemistry* (Hindawi Publishing Corporation), **2013**–**2016**

6. Panels, Commissions of Trust & Scientific Duties

- Regular evaluator for various foreign funding schemes and panels including:
  · *Dutch VENI excellence scheme (NWO, The Netherlands)*
  · *The Engineering and Physical Sciences Research Council (EPSRC)*
  · *Hong Kong Research council (China)*
  · *ESF-COST scheme (European Union)*
  · *ACS Petroleum Research Funding scheme (USA)*
  · *Austrian Science Fund (Austria)*
  · *Agencia Nacional de Evaluación y Prospectiva (ANEP, Spain)*
  · *BOF grant scheme (Belgium)*
  · *ERC Starting grant scheme (European Union)*
  · *Estonian Research Council (ETAg)*
  · *King Fahd University of Petroleum & Minerals (KFUPM, Saudi Arabia)*
  · *Fonds de la Recherce Scientifique (Belgium)*
  · *Icelandic Research Fund (IRF)*
  · *Norwegian Research Council (NRC)*
  · *Several university funding programs (U-Namur, U-Liège, U-Leuven; Belgium)*
- Expert reviewer for all major scientific journals, around 100-130 times/year
- Management committee member of COST action CM1305 during **2014**–**2018**
- Seminar chairman at ICIQ in **2014**, invited speakers included: Alexander Alexakis (Genève), Herbert Mayr (Munich), Jean-Marie Lehn (Strasbourg), Kuiling Ding (Shanghai), Qi-Lin Zhou (Nankai), Matthias Beller (Rostock), Syuzanna R. Harutyunyan (Groningen), Carmen Carreño (Madrid), Géraldine Masson (Paris), Sensuke Ogoshi (Osaka), Gerhard Erker (Muenster), Kenneth G. Caulton (Indiana), Ronny Neumann (Weizmann Institute of Science), Charlotte Williams (Oxford), (35 in total).
- ICIQ Social Involvement Committee member, **2014**–**2017**.
- ICIQ Research Integrity and Ethics Committee member, **2018**–**2021**.
- ICIQ representative in the BIST working group on multidisciplinary research and strategy, **2018**–present.
- ICIQ representative for the Doctoral Academic Committee at the University Rovira i Virgili (Tarragona), **2018**-present
- External evaluator for the promotion of XXX (Bath University, UK) to Reader, **2019**.
- External evaluator for the promotion of XXX to Associate Professor (College of Science, National Chiao Tung University, Taiwan), **2019**.
- External evaluator for the promotion of XXX to Reader (Loughborough University, UK), **2019**.
- Member of the International Scientific Committee of the 9th IUPAC International Conference on Green Chemistry, Athens **2020**.
- Member of the scientific committee of the 6th Green & Sustainable Chemistry Conference **2021**.
- Member of the evaluation committee for the "XIX Edición de los Premios Lilly de Investigación" for doctoral students, **2021**.

- External evaluator for the nomination/appointment of XXX as "University Research Professor" at the MUN, Canada, **2022**
- Evaluation panel member of the Agencia Estatal de Investigación **2021** call "PROYECTOS ESTRATEGICOS ORIENTADOS A LA TRANSICIÓN ECOLÓGICA Y A LA TRASICIÓN DIGITAL", second phase, July **2022**.
- Member of ICIQ´s Academic Commission, **2022**–
- Scientific advisory member for the IUPAC/CHAINS conference **2023**
- Evaluation panel member for the **2023** Dutch Catalysis Society (DCS) Thesis Award
- External evaluator for the candidacy of XXX for a tenure-track talent position at the University of Chinese Academy of Sciences (China), April **2023**.
- External evaluator for the promotion of XXX (University of Groningen, the Netherlands) to Full Professor, April **2023**.
- External evaluator for the nomination/appointment of XXX as "University Research Professor" at the MUN, Canada, **2023**
- Panel 11 member at the DFG for the program on the Clusters of Excellence **2023**
- Panel member for the evaluation of the "Convocatoria de Consolidación Investigadora" de Agencia Estatal de Investigación (AEI), **2023** – contact: José Manuel González Diaz.
- External evaluator for the promotion of XXX (Loughborough University, UK) to Full Professor, February **2023**.
- Part of the Selection Committee for the **2024** SCQ awards.
- Member of the external Scientific Organizing Committee of the **2025** ICCDU conference (Lisbon, Portugal)

7. Teaching & Supervision

- Universitat Rovira i Virgili (URV) course on "*Supramolecular Chemistry*" in the master program "*Synthesis and Catalysis*" **2009–2012** (2.0 credits/year)
- Universitat Rovira i Virgili (URV) course on "*Sustainable Catalysis*" in the master program "*Synthesis, Catalysis and Molecular Design"* **2015**–present (2.0-2.5 credits/year)

Supervised PhD Students with year/date of graduation:

1. **2029**: Yingying Wang (with CB) « start Jul´25 »
2. **2028**: Giulio Gallorini « start Feb´25 »
3. **2028**: Yue Ren « ongoing »
4. **2027**: Ángel Antunez « ongoing » (with MHP)
5. **2026**: Sara Faoro (D-Carbonize) « ongoing »
6. **2026**: Owais Sheikh (D-Carbonize) « ongoing »
7. **2026**: Angelo Scopano (D-Carbonize) « ongoing »
8. **2026**: Lilas Aubel (D-Carbonize) « ongoing »
9. **2026**: Natalia Kulbacka (D-Carbonize) « ongoing »
10. **2026**: Enrico Lanaro (D-Carbonize) « ongoing »
11. **2026**: Alejandro Delgado « ongoing »
12. **2026**: Chengyang Chang « ongoing »
13. **2025**: Wangyu Shi « ongoing », scheduled for Nov´25
14. **2025**: Fengyun Gao « ongoing » scheduled for Nov´25
15. **2024**: Qian Zeng, "Radical-Mediated Formation of Functionalized Allylic Synthons", projected for **December 11**
16. **2024**: Alba Villar-Yanez, "Computational Insights of Catalytic Carbon Dioxide Valorization and Circular Recycling Processes", **July 4**
17. **2023**: Jixiang Ni, "Ring-Opening of Cyclic Carbonates: From Fine Chemicals to CO_2-based Polymers", **October 24**
18. **2023**: Xuetong Li, "Silver-Catalyzed Cascade Conversions of CO_2 into Heterocycles", **September 27**
19. **2023**: Alèria Garcia Roca, "Mechanistic Investigations on Transition Metal-Catalyzed Asymmetric Allylic and Propargylic Substitution Reactions", **June 15**
20. **2022**: Chang Qiao, "Catalytic Formation of Heterocycles from α- and β-Epoxy Alcohols" **June 23**
21. **2022**: Nicola Zanda, "Continuous Flow Catalysis for the Valorization of Carbon Dioxide", **June 27**
22. **2021**: Kun Guo, "Copper and Nickel Promoted Transformations of Alkyne based Cyclic Carbonates", **December 20**
23. **2021**: Sijing Xue, "Dual Transition Metal/Photoredox Catalysis for the Synthesis of Quaternary Carbon Stereocenters", **December 10**
24. **2021**: Cristina Maquilón, "New and Functional Cyclic Carbonates for Polymer Applications", **October 11**
25. **2021**: Àlex Cristòfol, "Stereoselective Transformations of Vinyl Cyclic Carbonates and Applications in Natural Products Synthesis", **October 8**

26. **2020**: Jianing Xie, "Advancing Pd-catalyzed Stereoselective Allylic Substitution Reactions", **October 15**
27. **2019**: Aijie Cai, "Pd-catalyzed Allylic Substitution for the Construction of Quaternary Stereocenters", **December 12**
28. **2019**: José Enrique Gómez, "Stereoselective Synthesis of Sulfones and Amino Acids from Functionalized Heterocycles", **September 12**
29. **2018**: Sergio Sopeña de Frutos, "Organocatalytic Transformations of Carbon Dioxide and Cyclic Carbonates", **March 22**
30. **2017**: Víctor Laserna, "Small Molecule Activation for the Formation of Heterocyclic Compounds", **October 25**
31. **2017**: Jeroen Rintjema, "Aluminum-Catalyzed Coupling of Carbon Dioxide and Cyclic Ethers", **October 31**
32. **2017**: Leticia Peña Carrodeguas, "Synthesis of Biobased Polymers derived from Terpenes", **July 4**
33. **2016**: Luis Martínez Rodríguez, "Molecular and Catalyst Design for Recognition and Activation of Small Molecules", **November 2**
34. **2013**: Daniele Anselmo, "Lewis Acidic Zn(II) Schiff Base Complexes in Homogeneous Catalysis", **April 4**
35. **2013**: Giovanni Salassa, "Supramolecular, Photophysical and Catalytic Properties of Zn(salphen) based Complexes and Materials", **July 12**
36. **2011**: Sander Johannes Wezenberg, "Exploring Metallosalen Complexes in Materials Science and Catalysis", **July 1**

Supervised students, origin and type:

1. Nina Carretero	Spain	summer fellow (**2009**)
2. Danilo Misseri	Italy	summer fellow (**2010**)
3. Leire San Felices	Spain	summer fellow (**2011**)
4. Alessia Coletti	Italy	visiting PhD student (**2012**)
5. Jonathan Rojas	Mexico	master intern (**2012**)
6. Margerita Dimitrova	Bulgaria	master intern (**2012**)
7. Victor Laserna	Spain	summer fellow (**2012**)
8. Blerina Gjoka	Italy	visiting PhD student (**2013**)
9. Moritz Stuck	Germany	master intern (**2016**)
10. Àlex Cristòfol	Spain	summer fellow (**2016**)
11. Roel Epping	Netherlands	master internship (**2016**)
12. Claudia Micelli	Italy	visiting PhD student (**2017**)
13. Silvia Gaspa	Italy	visiting PhD student (**2017**)
14. Mariachiara Cozzolino	Italy	visiting PhD student (**2017**)
15. Maeve Guilty	Ireland	summer fellow (**2017**)
16. Vicente Dorado	Spain	visiting PhD student (**2018**)
17. Michela Marchese	Italy	master intern (**2018**)
18. Christian Böhmer	Germany	master intern (**2018**)
19. Sarah Dechent	Germany	visiting PhD student (**2018**)
20. Josefine Sprachmann	Austria	master intern (**2019**)
21. Vatcharaporn Aomchad	Thailand	visiting PhD student (**2019**)
22. Marta Romero Ribas	Spain	summer intern (**2021**)
23. Ilaria Grimaldi	Italy	master intern (**2022**)
24. Dirk Hüsstege	Netherlands	master intern (**2022**)
25. Alannah Constable	Canada	summer fellow (**2022**)
26. Diego Meneses	Spain	master intern (**2022**)
27. Lorentz Dittrich	Germany	master intern (**2023**)
28. Paolo Orlando	Italy	visiting PhD (**2023**)
29. Rihab Ferjani	Tunesia	summer fellow (**2023**)
30. Silvia Bravo	Spain	bachillerato student (**2023**)
31. Yamini Nirwan	Germany	master intern (**2023**)
32. Rodrigo Nogués	Spain	summer fellow (**2024**)
33. Ward Vermeer	Netherlands	master intern (**2024**)
34. Claudio Manservisi	Italy	master intern (**2025**)

Supervised postdoctoral associates and origin (year started):

1. Belén Rodríguez — Spain (**2008**)
2. Robert Haak — Netherlands (**2009**)
3. Antonello Decortes — Italy (**2009**)
4. Anna María Castilla — Spain (**2010**)
5. Chris Whiteoak — United Kingdom (**2011**)
6. Martha Escárcega — Mexico (**2011**)
7. Sander Wezenberg — Netherlands (**2011**)
8. Nicola Kielland — Italy (**2012**)
9. Giulia Fiorani — Italy (**2013**)
10. Carmen Martín — Spain (**2014**)
11. Wusheng Guo — China (**2015**)
12. Tharun Jose — India (**2015**)
13. Rui Huang — China (**2015**)
14. Nicole Kindermann — Germany (**2015**)
15. Bart Limburg — Netherlands (**2019**)
16. Francesco Della Monica — Italy (**2019**)
17. Alexander Lücht — Germany (**2019**)
18. Debasish Ghorai — India (**2020**)
19. Jeroen Rintjema — Netherlands (**2021**)
20. Arianna Brandolese — Italy (**2021**)
21. Balász Tóth — Hungary (**2022**)
22. Dimitrios Skoulas — Greece (**2022**)
23. David Lamparelli — Italy (**2022**)
24. Thirusangumurugan Senthamarai Ganapathy — India (**2022**)
25. Matteo Lanzi — Italy (**2022**)
26. Stephanie Amos — United Kingdom (**2024**)
27. Davide Rigo — Italy (**2025**)
28. Supriya Rej — India (**2025**)
29. Viktor Bliksted — Denmark (**2025**)

8. Kleij Group Alumni

1. Dr. Daniele Anselmo	Customs Brokerage Agent at Manto Shipping & Consulting (Italy)
2. Dr. Belén Rodríguez	CMC Regulatory Affairs Manager (Almirall, Spain)
3. Dr. Antonello Decortes	Global Product Management at Clariant (Italy)
4. Dr. Chris Whiteoak	Senior lecturer in chemistry (Sheffield, UK)
5. Dr. Giulia Fiorani	Assistant Professor (Venice, Italy)
6. Dr. Sander Wezenberg	Associate Professor (University of Leiden, The Netherlands)
7. Dr. Nicole Kindermann	Evonik Industries (Germany)
8. Prof. Wusheng Guo	Professor at FIST Center for Organic Chemistry (Xi'an, China)
9. Dr. Robert Haak	R&D Project Manager, Beniparell (Valencia)
10. Dr. Ana Maria Castilla	Lecturer (Queen Mary University of London)
11. Dr. Martha Escárcega	Research Professor UNAM (Mexico City)
12. Dr. Carmen Martín	Assistant professor (Universidad Complutense Madrid, Spain)
13. Dr. Victor Laserna	Senior scientist (AstaZeneca, UK)
14. Dr. Luis Martínez	Senior Patent Liaison Manager (Umicore)
15. Dr. Leticia Peña	Postdoc with Charlotte Williams (Oxford)
16. Dr. Nicola Kielland	Project Manager (University of Barcelona)
17. Dr. Jeroen Rintjema	Senior TS&D Specialist at DOW (Tarragona)
18. Dr. Giovanni Salassa	Marie Curie fellow at the University of Geneva
19. Dr. Rui Huang	Suzhou Research Institute of LICP, Lanzhou Institute of Chemical Physics (LICP), Chinese Academy of Sciences
20. Dr. Tharun Jose	Freelance Business Developer, Deo Favente Group International Co.W.L.L, Deo Favente Logistics (DFL, Germany)
21. Dr. Sergio Sopeña	Business Development Manager (ICIQ, Tarragona)
22. Dr. José Enrique Gómez	Research scientist at Janssen (Toledo, ESP)
23. Dr. Aijie Cai	Postdoc with Prof. Wei Liu, Miami University (USA)
24. Josefine Sprachmann	PhD student with Oliver Dumele (HU Berlin)
25. Dr. Alexander Lücht	Assistant production manager at LIPOID (Ludwigshafen, GER)
26. Dr. Jianing Xie	Postdoc with Prof. Herbert Waldmann (MPI Dortmund)
27. Dr. Àlex Cristòfol	Postdoc with Darren Dixon, Oxford University (UK) at Cortex Organics
28. Dr. Kun Guo	Postdoc with Prof. Shoubhik Das (Antwerp)
29. Dr. Francesco Della Monica	Assistant Professor at the University of Insubria (Italy)
30. Dr. Chang Qiao	Postdoc at CARLA, Heidelberg University

31. Dr. Arianna Brandolese	Group Leader at the University of Birmingham (UK)
32. Dr. Nicola Zanda	Research Associate in SpiroChem AG (Switzerland)
33. Ilaria Grimaldi	PhD position with Carmine Capacchione (Salerno, Italy)
34. Dr. Bart Limburg	Lecturer at the University of Barcelona (UB) & ERC StG laureate
35. Dr. Alèria Garcia	Postdoc with Matt Sigman, University of Utah (USA)
36. Diego Meneses	PhD student with Prof. Romano Orru (Aachen-Maastricht Institute for Biobased Materials, AMIBM, the Netherlands)
37. Dr. Sijing Xue	Xtalpi BioPharma, Shanghai (China)
38. Dr. Matteo Lanzi	Tenure track Assistant Professor, University of Parma (Italy)
39. Dr. David H. Lamparelli	Research Assistant at the University of Salerno (Italy)
40. Dr. Alba Villar Yanez	Project coordinator at ICIQ (Spain)
41. Dr. Balázs Tóth	API project manager at Richter Gedeon Pl (Hungary)

9. Invited Thesis Tribunals/External Evaluations

- **2025**: Xiaoqing Shao (ICIQ, Prof. Antonio Echavarren)
- **2024**: Carles Lluna-Galán (ITQ/UPV, Drs. José Ramón Cabrero/Rosa Adam)
- **2024**: Carlos Franco (Sevilla, Prof. José María Lassaletta)
- **2024**: Ella Clark (Bath, UK, Prof. Antoine Buchard) - ONLINE
- **2023**: Wei Zhou (ICIQ, Prof. Paolo Melchiorre)
- **2023**: Mikus Purins (École Polytechnique Fédérale de Lausanne, Prof. Jerome Waser)
- **2023**: Jere Mannisto (University of Helsinki, Prof. Timo Repo)
- **2023**: Adriana Faraone (ICIQ, Prof. Paolo Melchiorre)
- **2022**: Miguel Palenzuela Cebrián (Alcalá de Henares, Spain)
- **2022**: Ferrán Esteve Franch (Castellón, Spain)
- **2022**: Jordi Sans (UPC, Barcelona, Carlos Alemán)
- **2022**: Arjen Kamphuis, University of Groningen (the Netherlands)
- **2022**: Vitor Bonamigo Moreira, Universitat Politècnica de Catalunya (Spain)
- **2021**: Andrea Guerrero, Universidad Autónoma de Madrid (Spain)
- **2021**: Eugenio Gandolfo (ICIQ, Tarragona, Spain)
- **2021**: Marc Martínez de Sarasa, Universidad de Castilla-La Mancha (Spain)
- **2021**: Roberto Calmanti, University Ca´Foscari Venezia (Italy)
- **2020**: Anastasia Tkacheva (ICIQ, Tarragona, Spain)
- **2019**: Myriam Souleymanou, Universitat Rovira i Virgili (Tarragona, Spain)
- **2019**: Juan José Corral (ICIQ, Tarragona, Spain)
- **2019**: Tanmoy Biswas (IISER-Kolkata, India)
- **2019**: Simone Cailotto, University Ca´Foscari Venezia (Italy)
- **2019**: Gregorio Bonazza, University Ca´Foscari Venezia (Italy)
- **2019**: Eszter Fazekas, University of Edinburgh (UK)
- **2018**: Jeroen Rombouts, Vrije Universiteit Amsterdam (the Netherlands)
- **2017**: María Fernández Millán, Universidad Alcalá de Henares (Spain)
- **2017**: Zhouting Rong (ICIQ, Tarragona, Spain)
- **2017**: Katalin Devaine-Pressing (MUN, Canada)
- **2017**: José Ramón Romero (ICIQ, Tarragona, Spain)
- **2017**: Claudia Miceli, University of Padova (Italy)
- **2016**: Margot Alves, University de Liège/Bordeaux (Belgium/France)
- **2016**: Sara Ranjbar (ICIQ, Tarragona, Spain)
- **2015**: Laia Cuesta Aluja, Universitat Rovira i Virgili (Tarragona, Spain)
- **2015**: Saša Korom (ICIQ, Tarragona, Spain)
- **2014**: Masoumeh Taherimehr, University of Leuven (Belgium)
- **2014**: Ana Martinez Asencio, Universitat d'Alicante (Spain)
- **2013**: Pradip Kumar Dutta, Indian Institute of Science Education and Research, Department of Chemical Sciences Kolkata (West Bengal, India)
- **2013:** José Luis Núñez Rico (ICIQ, Tarragona, Spain)
- **2013:** Oriol Martínez Ferraté (ICIQ, Tarragona, Spain)
- **2012**: Alessia Coletti, University of Rome Torre Vergata (Italy)
- **2012**: Rubén Chico Robles, Universidad de Valladolid (Spain)

10. Most Recent and Present Collaborations

- Prof. Mónica Pérez-Temprano, ICIQ-Tarragona (Spain); *Cobalt chemistry and mechanistic analysis*
- Prof. Sophie Guillaume, University of Rennes (France); *ring-opening polymerization of larger-ring heterocycles*
- Prof. Miquel Pericàs, ICIQ-Tarragona/Universitat Rovira i Virgili (Spain); *supported catalysis and flow reactions*
- Prof. Giulia Licini, Padova University (Italy); *bifunctional catalysts for CO_2 conversion*
- Prof. Carles Bo, ICIQ-Tarragona (Spain); *mechanistic work on CO_2 catalysis using DFT methods*
- Prof. Feliu Maseras, ICIQ-Tarragona (Spain); *computational analysis of organometallic catalysis*
- Prof. Genping Huang, Tianjin University (China); *computational analysis of asymmetric reactions*
- Prof. Christophe Detrembleur, University of Liège (Belgium); *CO_2 based polymers and material science applications*
- Prof. Atsushi Urakawa, Delft University (the Netherlands); *continuous flow and in situ spectroscopic analysis of catalytic intermediates*
- Prof. Geoffrey Coates, Cornell University (Itaca, US); *biobased polyester development*
- Prof. Valerio D´Elia, VISTEC (Thailand); *new catalyst development for organic carbonate synthesis*
- Prof. Gerrit Luinstra, Hamburg University (Germany); *development of biobased carbonate containing polymers*
- Prof. Weibo Yang, Chinese Academy of Science (Beijing, China); *application of vinyl cyclic carbonates in synthetic applications*
- Dr. Gustavo Zelada-Guillén, National Autonomous University of Mexico (UNAM); *carbon nanotube based conducting materials*
- Prof. Marta Ramos, University of Minho (Braga, Portugal); *computational analysis of self-assembly processes*
- Prof. Elena Fernández, Universitat Rovira i Virgili (Tarragona, Spain); *stereoselective borylation reactions*
- Prof. José Mayoral, University of Zaragoza (Spain); *stereoselective formation of fatty acid based cyclic carbonates*
- Prof. Paolo Pescarmona, University of Groningen (the Netherlands); *organic carbonate synthesis under supercritical CO_2 conditions*
- Prof. Carlos Alemán and Dr. Elaine Armelin, Universitat Politécnica de Catalunya (Barcelona, Spain), *adhesive and coatings from biobased epoxy compounds*
- Prof. Haritz Sardon (POLYMAT, University of the Basque Country UPV/EHU); *NIPU´s based on bioderived cyclic carbonates for coating applications*
- Dr. Ignacio Funes, University of La Rioja (Logroño, Spain); *Computational analysis of Co/photoredox based transformations*
- Dr. Xiang-Wei Liu, Southwest Jiaotong University (Chengdu, China); *Pd-catalyzed Regio/stereoselective synthesis using vinyl cyclic carbonates*
- Prof. Stephen Hashmi (Heidelberg University), *catalytic recycling of biobased polycarbonates*

11. Scientific Outreach Activities

- Interview by Catalan Television (TV3, **2014**) to discuss the possibilities of bio-renewable polymers in relation to the use of BPA-based copolymers in various plastics. See: http://blogs.ccma.cat/quequicom.php?itemid=53992
- Promotion of CO_2 chemistry/catalysis via ICIQ´s YouTube channel, see: http://www.youtube.com/watch?v=NTLdall8TS4 (**2014**).
- Interview by Excelenciencia (**2014**), see the following link: http://www.excelenciencia.org/articulo.asp?id=10053&catgrupo=26&tipocom=20
- Interview by the Tarragona radio, program "*Pa Cienca, La Nostra*" discussing the use of CO_2 to prepare pharmaceutical intermediates, see the web link at: http://www.paciencialanostra.com/2017/03/programa-328-4-iii-17.html (**2017**).
- Interview by the Austrian Public Broadcasting (radio; interviewer Juliane Nagiller; http://oe1.orf.at) concerning our developed bio-polymer based on lemons and CO_2 and the potential it has to serve as a replacement for bis-Phenol A/CO_2 based polycarbonates (**2017**).
- Interview by Radio Euskadi (Bask Country, Spain) concerning our developed biopolymer based on lemons and CO_2 and the potential it has to serve as a replacement for bis-Phenol A/CO_2 based polycarbonates (**2017**), see the web link at: http://www.eitb.tv/es/radio/radio-euskadi/boulevard/4344156/5036397/no-hagan-olas-23-08-2017/
- Interview at ICIQ by a student (BSc level; Claudia Elijas), from the "L'Institut Pons d'Icart" in Tarragona) about research with a focus on changes in the climate, and the effect this may have on the future of the (global) climate (**2017**).
- Interview by Cristina Herrero (Colegio Sant Andreu de Badalona/Barcelona), Primero de Bachillerato en el ámbito científico) our developed biopolymer based on lemons and CO_2 and the potential it has to serve as a replacement for bis-Phenol A/CO_2 based polycarbonates (**2017**).
- Article on "Chemistry Today/Chimica Oggi" providing commentaries on the viability of the use of PLC in commercial products in a column prepared by Mario Pagliaro. See for the latest issue: http://www.teknoscienze.com/tks_issue/vol-356/
- Our work on poly(limonene)carbonate was promoted in Catalunya Diari, see: https://catalunyadiari.com/societat/desenvolupen-un-nou-metode-per-produir-plastics-a-catalunya-amb-pela-de-citrics (**2017**).
- Interview with Andres Masa (magazine "Quo") about the use of carbon dioxide in various industrial applications and future perspectives, 26-July-**2018**.
- Involved in setting up a visit of 10 MSc students from Sheffield Hallam University (UK) to ICIQ on February 26-28 (**2019**), including a seminar on CO_2 valorization routes.
- External expert speaker and jury member of the Spanish Finals of the European Youth Debating Competition. Theme: "*Reuse, Recycle, Rethink: What is your Vision for a Sustainable Future with Plastics and Petrochemicals?*", March 26, **2019**.
- Program "Bojos por la química – crazy about chemistry", seminar on the development of alternative biobased polymers to alleviate the problems associated with plastic disposal and accumulation for 20-25 "bachillerato" level students from Tarragona, February 22, **2020**.

- Video-interview by XRE4S focusing on "Cápsula de tecnología" about our CO_2-based polymer and fine-chemicals portfolio, March 8, **2021**. Details: https://youtu.be/jfbTeeJ6pK8
- Interview by "Chemical Today" (contact: Raghavendra Udayagiri) about "The expanding possibilities of bio-based polymers", March **2021**.
- Radio + interview by Diari Més Tarragona **2021**, about our catalytic conversion of waste-into-polyesters process in the context of the TriPYR/POCTEFA project, https://www.diarimes.com/noticies/tarragona/2021/11/30/investigadors_iciq_estudien_com_convertir_brossa_nous_plastics_114252_1091.html.
- Opinion article in the *Diari de Tarragona* on the need for a circular chemistry to increase sustainability, March **2022**.
- Podcast on the use of biobased plastics as a remedy towards problems associated to micro-plastic and general pollution by plastic materials (framework "Blau de Prússia: Bioplàstics i Alternatives al fàstic"), Tarragona Radio 96.7 FM, April 19, **2022**
- Interview with the Diari de Tarragona about the topic of CO_2 capture, use and transformation, November 4, **2022**
- Interview in EuChemS Magazine around the **2023** ESCA award, March, Interviewer: Marton Kottmayer, https://www.magazine.euchems.eu/interview-with-arjan-kleij/.
- Presentation on "Catalytic Upgrading of Bio-Carbon: En Route to a Sustainable Future?" for Delft University of Technology students visiting ICIQ, May 29, **2023**
- Presentation on "Catalytic Upgrading of Bio-Carbon: En Route to a Sustainable Future?" for Leiden University students visiting ICIQ, July 12, **2023**
- Blau de Prússia Podcast on the "use of renewable carbon sources" in sustainable catalysis and development, July 4, **2024** (@ICIQ) – together with Enrico Lanaro (*D-Carbonize*)
- Contribution to a coverage of the value and downsides of plastics in the journal "Industria Química" in **2025**.

12. Patent/Applications

1. **EP 11382301**, "USE OF IRON (III) AND ALUMINUM (III) AMINE COMPLEX AS A CATALYST FOR THE PREPARATION OF CYCLIC CARBONATES AND CARBAMATES", Chris J. Whiteoak, Arjan W. Kleij; filing date September 21 (**2011**) – *abandoned*.

2. **EP 13382322.9**, "BIS-SALPHEN COMPOUNDS AND CARBONACEOUS MATERIAL COMPOSITES COMPRISING THEM", Gustavo-Zelada-Guillén, Martha V. Escárcega-Bobadilla, Gerhard Maier, Arjan W. Kleij, priority date August 9, **2013** – PCT phase: WO 2015018940 A1 20150212.

3. **US 62/659,556**, "SUSTAINABLE PROCESS FOR PREPARING POLY (LIMONENE) DICARBONATE HAVING HIGH GLASS TRANSITION TEMPERATURE", Nicole Kindermann, Àlex Cristòfol, Arjan W. Kleij; *filing date April 18* (**2018**).

4. **US 62/693,090** "SUSTAINABLE PROCESS FOR PREPARING POLYESTERS HAVING HIGH GLASS TRANSITION TEMPERATURE", Leticia Peña Carrodeguas, Maria Carmen Martín Gandul, Arjan W. Kleij; *filing date July 2* (**2018**).

5. **EP21383139.9** "BIO-BASED EPOXY RESIN COMPOSITION FOR ADHESIVE AND COATINGS APPLICATIONS", Carles, Alemán, Elaine Armelin, Jeroen Rintjema, Fernando Bravo, Arjan W. Kleij; *filing date December 15* (**2021**). **PCT/EP2022/085791** applied on *14 December 2022*.

6. **EP24382310** "PROCEDURE FOR THE FUNCTIONALIZATION OF CELLULOSE, FUNCTIONALIZED CELLULOSE THUS OBTAINED AND USE THEREOF", Dimitrios Skoulas, Arjan W. Kleij, Fernando Bravo Lara, Helmut Schlaad; *filing date March 21* (**2024**).

13. Network Participation

- **CO_2CHEM** – an international network on carbon dioxide initiated in the UK. For more details see: http://co2chem.co.uk/

- **COST actions** sponsored by ESF – specific COST actions in which the Kleij group was involved: D40, CM1003, CM1205 and CM1305 (in the latter as a management committee member).

- **RedIntecat** – a Spanish excellence network devoted to facing societal challenges through collaborative research in Catalysis. The Kleij group participated in the project "Intecat", see: http://redintecat.iciq.es/portal/1093/proyecto_intecat.aspx

- **Severo Ochoa Excellence** scheme – The Kleij group participated as one of the 10 ICIQ research groups between **2014–2018** in the institutional program on excellence in science funded by the Spanish Ministry of Science and Education (MINECO), and continued in the 2nd SO program (**2020–2024**)

- **CO_2 Value Europe** – Arjan Kleij has been one of the representatives for ICIQ, that joined as a founding member this newly established consortium that focuses on "*the coordination and representation of the CO_2 utilization community in Europe and to build up an integrated vision and action plan to develop CO_2 Utilization into a new industrial sector making a significant contribution to Europe's low carbon economy*". More details can be found here: http://www.co2value.eu/

- **SusChem** – a Spanish national consortium/platform that seeks to bring together academic and industrial scientists with a mindset in the area of sustainable developments. Further details: http://www.suschem-es.org/

- **OASIS**, Redes de Investigación de la Agencia Estatal de Investigación (AEI), "ORGANOMETALLIC CHEMISTRY FOR SUSTAINABLE SOLUTIONS", Ref. RED2022-134074-T, **2023**–.

- **CASI**, Redes de Investigación de la Agencia Estatal de Investigación (AEI), "RED DE INVESTIGACION EN CATALISIS ASIMETRICA", Ref. RED2022-134331-T, **2023**–. https://netwoasis.com/

14. Full List of Publications

244. Highly Functional Allyl-Bicyclo[1.1.1]Pentane Synthesis by Radical Initiated Three-Component Stereoselective Allylation"
Qian Zeng, Wangyu Shi, Arjan W. Kleij*
JACS Au **2025**, *5*, au-2024-01129x, *pending minor revisions*

243. Catalytic Transformation of Carbon Dioxide into Elusive Seven-Membered Heterocycles and Their Domino Transformation into Novel Bicyclic Oxazolidinones
Wangyu Shi, Jordi Benet-Buchholz, Arjan W. Kleij*
Nat. Commun. **2025**, *16*, NCOMMS-24-25936C, *pending formal acceptance*

242. Photochemical C–H Borylation in Organic Synthesis
Supriya Rej,* Stephanie G. E. Amos, Arjan W. Kleij*
ACS Catal. **2025**, *15*, DOI: 10.1021/acscatal.4c07169, *in press*

241. From conventional to dual Co/photoredox mediated reductive coupling of alkynes and alkenes
**Part of the "10th Anniversary of OCF" issue*
Balázs Tóth, Stephanie G. E. Amos, Arjan W. Kleij*
Org. Chem. Front. **2025**, *11*, https://pubs.rsc.org/en/content/articlelanding-/2025/qo/d4qo02143f

240. Controlled Synthesis of Bioderived Poly(limonene carbonate)-Oligolysine Hybrid Macromolecules
D. Skoulas,* A. Tolentino, A. W. Kleij,* *ACS Macro Lett*. **2024**, *13*, 1332–1337, DOI: 10.1021/acsmacrolett.4c00461b

239. Pd-Catalyzed Allylic Substitution using Nucleophilic Amines: Access to Functionalized Mono- and Bis-N-Allyl Synthons
F. Gao, D. Ghorai, J. Benet-Buchholz, A. W. Kleij,* *Adv. Synth. Catal*. **2024**, *366*, 4709-4714, DOI: 10.1002/adsc.202400685

238. Cu-Catalyzed Asymmetric Synthesis of γ-Amino Alcohols Featuring Tertiary Carbon Stereocenters
Alejandro Delgado, Matteo Lanzi*, Paolo Orlando, Jordi Benet-Buchholz, Daniele Passarella, Arjan W. Kleij*
Org. Lett. **2024**, *26*, 7596–7600, DOI: 10.1021/acs.orglett.4c02682

237. Addressing Reproducibility Challenges in High-Throughput Photochemistry

Among the most accessed in July´24
B. Pijper, L. M. Saavedra, M. Lanzi, M. Alonso, A. Fontana, M. Serrano, J. E. Gómez, A. W. Kleij, J. Alcázar, S. Cañellas*
JACS Au **2024**, *4*, 2585−2595, DOI: 10.1021/jacsau.4c00312

236. Chemo-, Regio- and Stereoselective Preparation of (*Z*)-2-Butene-1,4-Diol Monoesters via Pd-Catalyzed Decarboxylative Acyloxylation
Long Cheng, Jia-Li Zhao, Xiao-Tian Zhang, Qiao-Sen Jia, Ni Dong, Yu Peng, Arjan W. Kleij and Xiang-Wei Liu*
Chem. Eur. J. **2024**, *30*, e202401377, DOI: 10.1002/chem.202401377

235. Improved Thermoset Materials derived from Biobased Terpene Macromolecules via Photo-Crosslinking
Dimitrios Skoulas, Fernando Bravo, Arjan W. Kleij*
Polym. Chem. **2024**, *15*, 2362–2369, DOI: 10.1039/D4PY00381K

234. An Expedient Radical Approach for the Decarboxylative Synthesis of Stereodefined All-Carbon Tetrasubstituted Olefins
*Part of Wiley´s Hot Topics
*Highlighted by Synfacts **2024**; 20(07): 0707, DOI: 10.1055/s-0043-1773295*
Q. Zeng, N. Yamini, J. Benet-Buchholz, A. W. Kleij*
Angew. Chem. Int. Ed. **2024**, *63*, e202403651, DOI: 10.1002/anie.202403651[29]

233. Access to Functionalized Polycarbonates derived from Fatty Acid Esters via Catalytic ROCOP and their Potential in Gel Formulations
Arianna Brandolese, David H. Lamparelli, Ilaria Grimaldi, Salvatore Impemba, Piero Baglioni, Arjan W. Kleij*
Macromolecules **2024**, *57*, 3816-3823, DOI: 10.1021/acs.macromol.4c00411

232. Mechanism of Palladium-Catalyzed Allylic Substitution of Tertiary Allylic Carbonates with Sodium Sulfinates: Unusual Bifunctional Nucleophile-Enabled Inner-Sphere Pathway and Origin of Regio- and Enantioselectivities
Hongli Wu, Botao Wu, Arjan W. Kleij,* Genping Huang*
Catal. Sci. Technol. **2024**, *14*, 1642-1652, DOI: 10.1039/D3CY01493B

231. Vinyl and Alkynyl Substituted Heterocycles as Privileged Scaffolds in Transition Metal-Promoted Stereoselective Synthesis
Debasish Ghorai, Balázs Tóth. Matteo Lanzi, Arjan W. Kleij*
Acc. Chem. Res. **2024**, *57*, 726-738, DOI: 10.1021/acs.accounts.3c00760

230. Catalytic Domino Three-Component Synthesis of Functionalized Heterocycles from Carbon Dioxide
*Part of Wiley´s Hot Topics
Wangyu Shi, Chang Qiao, Jordi Benet-Buchholz, Arjan W. Kleij*
ChemSusChem **2024**, *17*, e202301626, DOI: 10.1002/cssc.202301626

229. Recent Advances in the Synthesis and Polymerization of new CO_2-based Cyclic Carbonates
**Invited article*
Matteo Lanzi, Arjan W. Kleij*
Chin. J. Chem. **2024**, *42*, 430-443, DOI: 10.1002/cjoc.202300502

228. Bicyclic Guanidine Promoted Mechanistically Divergent Depolymerization and Recycling of a Biobased Polycarbonate
**Part of Wiley´s Hot Topics*
David H. Lamparelli, Alba Villar-Yanez, Lorenz Dittrich, Jeroen Rintjema, Fernando Bravo,* Carles Bo,* Arjan W. Kleij*
Angew. Chem. Int. Ed. **2023**, *62*, e202314659, DOI: 10.1002/anie.202314659[28]

227. Ni-Catalyzed Regio- and Enantioselective Homoallylic Coupling: Synthesis of Chiral Branched 1,5-Dienes Featuring a Quaternary Stereogenic Center and Mechanistic Analysis
Debasish Ghorai, Aleria Garcia-Roca, Balázs L. Tóth, Jordi Benet-Buchholz, Arjan W. Kleij*
Angew. Chem. Int. Ed. **2023**, *62*, e202314865, DOI: 10.1002/anie.202314865[27]

226. Ring-Opening Polymerization of Functionalized Aliphatic Bicyclic Carbonates
**Selected as Hot article*
Polymer Chemistry's Most Popular **2023 Articles*
Jixiang Ni, Matteo Lanzi,* David H. Lamparelli and Arjan W. Kleij*
Polym. Chem. **2023**, *14*, 4748–4753, DOI: 10.1039/d3py00860f

225. Supercritical CO_2 as an Efficient Medium for Macromolecular Carbonate Synthesis through Ring-Opening Co- and Teroligomerization
David H. Lamparelli, Ilaria Grimaldi, Alicia Martínez-Carrión, Fernando Bravo, Arjan W. Kleij*
ACS Sustainable Chem. Engin. **2023**, *11*, 8193−8198, DOI: 10.1021/acssuschemeng.3c02002

224. Stereoselective Three-Component Allylic Alkylation enabled by Dual Photoredox/Ni Catalysis
Qian Zeng, Fengyun Gao, Jordi Benet-Buchholz, Arjan W. Kleij*
ACS Catal. **2023**, *13*, 7514–7522, DOI: 10.1021/acscatal.3c01686

223. Synthesis of Biorenewable Terpene Monomers Using Enzymatic Epoxidation under Heterogeneous Batch and Continuous Flow Conditions
Arianna Brandolese,* David H. Lamparelli, Miquel A. Pericàs, Arjan W. Kleij*
ACS Sustainable Chem. Engin. **2023**, *11*, 4885−4893, DOI: 10.1021/acssuschemeng.3c00370

222. A Comprehensive Mechanistic Scenario for the Cu-Mediated Asymmetric Propargylic Sulfonylation forging Tertiary Carbon Stereocenters
Aleria Garcia-Roca, Raúl Pérez-Soto, Georgiana Stoica, Jordi Benet-Buchholz, Feliu Maseras,* Arjan W. Kleij*
J. Am. Chem. Soc. **2023**, *145*, 6442–6452, DOI: 10.1021/jacs.3c00188

221. Silver-Mediated Cascade Synthesis of Functionalized 1,4-dihydro-2*H*-Benzo-1,3-Oxazin-2-Ones from Carbon Dioxide [26]
Xuetong Li, Jordi Benet-Buchholz, Eduardo C. Escudero-Adán, Arjan W. Kleij*
Angew. Chem. Int. Ed. **2023**, *62*, e202217803, DOI: 10.1002/anie.202217803

220. Organocatalytic *N*-formylation of amines by CO_2 in batch and continuous flow
Nicola Zanda, Ludovica Primitivo, Moreshwar Chaudhari, Arjan W. Kleij* and Miquel À. Pericàs*
Org. Chem. Front. **2023**, *9*, 375-381, DOI: 10.1039/d2qo01711c

219. Unusual DBU-Catalyzed Decarboxylative Formation of Allylic Thioethers from Vinyl Cyclic Carbonates and Thiols
**Selected as a Hot Article*
Jixiang Ni, Matteo Lanzi and Arjan W. Kleij*
Org. Chem. Front. **2022**, *9*, 6780–6785, DOI: 10.1039/d2qo01511k

218. Renewable Beta-Elemene based Cyclic Carbonates for the Preparation of Oligo(hydroxyurethane)s
Cristina Maquilón, Arianna Brandolese, Christian Alter, Claas H. Hövelmann, Francesco Della Monica* and A. W. Kleij*
ChemSusChem **2022**, *15,* e202201123, DOI: 10.1002/cssc.202201123

217. Simple Halogen-Free, Biobased Organic Salts Convert Glycidol to Glycerol Carbonate under Atmospheric CO_2 Pressure
J. Poolwong, V. Aomchad, S. Del Gobbo, A. W. Kleij* and V. D'Elia*
ChemSusChem **2022**, *15,* e202200765*,* DOI: 10.1002/cssc.202200765

216. Functional CO_2 based Heterocycles as Precursors in Organic Synthesis
Arjan W. Kleij*
Adv. Catal. **2022**, *70*, 1-28, DOI: 10.1016/bs.acat.2022.06.001

215. Continuous Organocatalytic Flow Synthesis of 2-Substituted Oxazolidinones using Carbon Dioxide
N. Zanda, L. Zhou, E. Alza, A. W. Kleij* and M. À. Pericàs*
Green Chem. **2022**, *24*, 4628–4633, DOI: 10.1039/D2GC00503D

214. Catalyst Engineering Empowers the Creation of Biomass-Derived Polyesters and Polycarbonates
Arianna Brandolese, Arjan W. Kleij*

Acc. Chem. Res. **2022**, *55*, 1634−1645, DOI: 10.1021/acs.accounts.2c00204

213. Decoding Key Transient Inter-Catalyst Interactions in a Reductive Metallaphotoredox-Catalyzed Allylation Reaction
Bart Limburg,* Àlex Cristòfol, Arjan W. Kleij*
J. Am. Chem. Soc. **2022**, *144*, 10912-10920, DOI: 10.1021/jacs.2c03692

212. A Novel Catalytic Route to Polymerizable Bicyclic Cyclic Carbonate Monomers from Carbon Dioxide [25]
Chang Qiao, Wangyu Shi, Arianna Brandolese, Jordi Benet-Buchholz, Eduardo C. Escudero-Adán, Arjan W. Kleij*
Angew. Chem. Int. Ed. **2022**, *61*, e202205053, DOI: 10.1002/anie.202205053

211. Domino Synthesis of Bicyclic 3,5-Anhydro Furanose Mimics using a Binary Al(III) Complex/Halide Catalyst
**Featured in Org. Chem. Highlights*
https://www.organic-chemistry.org/Highlights/2023/09January.shtm
Chang Qiao, Alba Villar-Yanez, Diego Garay-Ruiz, Jordi Benet-Buchholz, Carles Bo, Arjan W. Kleij*
ACS Catal. **2022**, *12*, 5464−5469, DOI: 10.1021/acscatal.2c00925

210. Catalytic Ring-Opening Copolymerization of Fatty Acid Epoxides: Access to Functional Biopolyesters
**Among the most read in April´22*
Arianna Brandolese, Francesco Della Monica, Miquel À. Pericàs, Arjan W. Kleij*
Macromolecules **2022**, *55*, 2566−2573, DOI: 10.1021/acs.macromol.2c00321

209. Dual Cobalt/Organophotoredox Catalysis for Diastereo- and Regioselective 1,2-Difunctionalization of 1,3-Diene Surrogates Creating Quaternary Carbon Centers
Sijing Xue, Alex Cristofol, Bart Limburg, Qian Zeng and Arjan W. Kleij*
ACS Catal. **2022**, *12*, 3651−3659, DOI: 10.1021/acscatal.2c00660

208. A Biosourced Epoxy Resin for Adhesive Thermoset Applications
Vitor B. Moreira, Carlos Alemán, Jeroen Rintjema, Fernando Bravo, Arjan W. Kleij* and Elaine Armelin*
ChemSusChem **2022**, *15*, e202102624, DOI: 10.1002/cssc.202102624

207. Novel Biobased Epoxy Thermosets and Coatings from Poly(limonene carbonate) Oxide and Synthetic Hardeners
Vitor Bonamigo Moreira, Jeroen Rintjema, Fernando Bravo, Arjan W. Kleij, Lourdes Franco, Jordi Puiggalí, Carlos Alemán and Elaine Armelin*

ACS Sustainable Chem. Engin. **2022**, 10, 2708-2719, DOI: 10.1021/acssuschemeng.1c07665

206. Cascade Transformation of Carbon Dioxide and Alkyne-1,*n*-diols into Densely Substituted Cyclic Carbonates
Xuetong Li, Alba Villar Yanez, Charlene Ngassam Tounzoua, Bruno Grignard, Jordi Benet-Buchholz, Carles Bo,* Christophe Detrembleur,* Arjan W. Kleij*
ACS Catal. **2022**, *12*, 2854-2860, DOI: 10.1021/acscatal.1c05773

205. Surface Science Approach to the Heterogeneous Cycloaddition of CO_2 to Epoxides Catalyzed by Site-Isolated Metal Complexes and Single Atoms: a Review
** Selected as Outstanding Paper in 2023 by the editorial board*
Valerio D' Elia,* Arjan W. Kleij*
Green Chem. Engin. **2022**, *3*, 210-227, DOI: 10.1016/j.gce.2022.01.005

204. Cyclization Reactions with CO_2
**Book chapter*
Arjan W. Kleij*
In: "The Chemical Transformations of C1 Compounds", Eds. Xiao-Feng Wu, Buxing Han, Kuiling Ding and Zhongmin Liu, Wiley-VCH, Weinheim **2022**, chapter 22, ISBN-13: 978-3-527-34895-4.
Access via: https://onlinelibrary.wiley.com/doi/10.1002/9783527831883.ch22

203. Ni-Catalyzed Decarboxylative Silylation of Alkynyl Carbonates: Access to Chiral Allenes via Enantiospecific Conversions
Kun Guo, Qian Zeng, Alba Villar-Yanez, Carles Bo and Arjan W. Kleij*
Org. Lett. **2022**, *24*, 637-641, DOI: 10.1021/acs.orglett.1c04086

202. Biobased Terpene Derivatives: Stiff and Biocompatible Compounds to Tune Biodegradability and Properties of Poly(butylene succinate)
Reza Zeinali, Luis J. del Valle *, Lourdes Franco, Ibraheem Yousef, Jeroen Rintjema, Carlos Alemán, Fernando Bravo, Arjan W. Kleij and Jordi Puiggalí*
Polymers **2022**, *14*, 161, DOI: 10.3390/polym14010161

201. Nickel-Catalyzed Allylic Substitution Reactions: An Evolving Alternative
**Among the Most Accessed during 01/2022 to 12/2022*
**Invited review, 2020 RSEQ Prize Winners*
Debasish Ghorai,* Alex Cristofol and Arjan W. Kleij*
Eur. J. Inorg. Chem. **2022**, e202100820, DOI: 10.1002/ejic.202100820

200. Can CO_2 and Renewable Carbon be Primary Resources for Sustainable Fuels and Chemicals?

** Editorial, among the most read in October 2021*

M. M. Faruque Hasan, Liane M. Rossi, Damien P. Debecker, Kevin C. Leonard, Zhenxing Li, Banothile C. E. Makhubela, Chuan Zhao, Arjan W. Kleij

ACS Sustainable Chem. Engin. **2021**, *9*, 12427-12430

DOI: 10.1021/acssuschemeng.1c06008

199. Photocatalytic Synthesis of Novel Cyclic Carbonate Monomers for Ring-Opening Polymerization

****** *Selected as VIP article*

Cristina Maquilón, Francesco Della Monica, Bart Limburg* and Arjan W. Kleij*

Adv. Synth. Catal. **2021**, *363*, 4033-4040, DOI 10.1002/adsc.202100654

198. Formation of Beta-Cyano-Ketones through Cyanide-Promoted Ring-Opening of Cyclic Organic Carbonates

Jixiang Ni, Àlex Cristòfol and Arjan W. Kleij*

Org. Chem. Front. **2021**, *8*, 4520–4526, DOI: 10.1039/D1QO00770J

197. Asymmetric Synthesis of Homoallylic Alcohols featuring Vicinal Tetrasubstituted Carbon Centers via Dual Pd/Photoredox Catalysis

Sijing Xue, Bart Limburg*, Debasish Ghorai, Jordi Benet-Buchholz, Arjan W. Kleij*

Org. Lett. **2021**, *23*, 4447-4451, DOI: 10.1021/acs.orglett.1c01380

196. Pd/Cu Dual Catalyzed Asymmetric Synthesis of Highly Functional All-Carbon Quaternary Stereocenters from Vinyl Carbonates

** Hot paper*

Sijing Xue, Alexander Lücht, Jordi Benet-Buchholz and Arjan W. Kleij*

Chem. Eur. J. **2021**, *27*, 10107-10114, DOI: 10.1002/chem.202100677

195. Expedient Dual Co/Organophotoredox Catalyzed Stereoselective Synthesis of All-Carbon Quaternary Centers [24]

Àlex Cristòfol, Bart Limburg* and Arjan W. Kleij*

Angew. Chem. Int. Ed. **2021**, *60*, 15266–15270, DOI: 10.1002/anie.202103479

194. Organocatalytic and Halide-Free Synthesis of Glycerol Carbonate under Continuous Flow

Nicola Zanda, Anna Sobolewska, Esther Alza, Arjan W. Kleij* and Miquel A. Pericàs*

ACS Sustainable Chem. Engin. **2021**, *9*, 4391-4397, DOI: 10.1021/-acssuschemeng.1c01060

193. Synthesis and Characterization of Biobased Polyesters with Tunable T_g by ROCOP of Beta-Elemene Oxides and Phthalic Anhydride

** Among the most read in March/April´21*

Francesco Della Monica* and Arjan W. Kleij*

ACS Sustainable Chem. Engin. **2021**, *9*, 2619-2625, DOI: 10.1021/-acssuschemeng.0c09189

192. Recent progress in the catalytic transformation of carbon dioxide into biosourced organic carbonates

Vatcharaporn Aomchad, Àlex Cristòfol, Francesco Della Monica, Bart Limburg, Valerio D'Elia* and Arjan Kleij*

Green Chem. **2021**, *23*, 1077-1113, DOI: 10.1039/D0GC03824E

191. Cu-mediated Dichotomic Borylation of Alkyne Carbonates: Stereoselective Access to (*E*)-1,2-Diborylated 1,3-Dienes versus Traceless Monoborylation affording α-Hydroxyallenes [23]

Kun Guo, Arjan W. Kleij*

Angew. Chem. Int. Ed. **2021**, *60*, 4901-4906, DOI: 10.1002/anie.202014310

190. Unlocking the Potential of Substrate-Directed CO_2 Activation and Conversion: Pushing the Boundaries of Catalytic Cyclic Carbonate and Carbamate Formation

** Part of the special issue "Green Carbon Science – CO_2 Capture and Conversion"*

** Selected as VIP article*

** Highlighted by ChemistryViews*

Bart Limburg, Àlex Cristòfol, Francesco Della Monica, Arjan W. Kleij*

ChemSusChem **2020**, *13*, 6056-6065, DOI: 10.1002/cssc.202002246

189. Pd-Catalyzed Stereoselective Tandem Ring-opening Amination/ Cyclization of Vinyl γ-Lactones: Access to Caprolactam Diversity

Jianing Xie, Xuetong Li, Arjan W. Kleij*

Chem. Sci. **2020**, *11*, 8839–8845, DOI: 10.1039/D0SC03647A

188. From terpenes to sustainable and functional polymers

** Invited article for the 2020 Polymer Chemistry Pioneering Investigators Issue*

Francesco Della Monica,* Arjan W. Kleij*

Polym. Chem. **2020**, *11*, 5109-5127, DOI: 10.1039/D0PY00817F

187. Organocatalytic Trapping of Elusive Carbon Dioxide based Heterocycles through a Kinetically Controlled Cascade Process [22]

** Part of the Hot Topic collections "Carbon Dioxide" and "Organocatalysis"*

** Highlighted by ChemViews magazine/press room ACIE*

Chang Qiao, Alba Villar-Yanez, Josefine Sprachmann, Bart Limburg, Carles Bo, Arjan W. Kleij*
Angew. Chem. Int. Ed. **2020**, *59*, 18446–18451, DOI: 10.1002/anie.202007350

186. Photochemical and Substrate-Driven CO_2 Conversion
** Book chapter*
Bart Limburg, Cristina Maquilón and Arjan W. Kleij*
In: "*CO_2 as Building Block in Organic Synthesis*", Ed. Shoubhik Das, Wiley-VCH, Weinheim **2020**, ISBN: 978-3-527-34613-4

185. Interview with Arjan W. Kleij
Arjan W. Kleij*
ChemCatChem **2020**, 12, 3830, DOI: 10.1002/cctc.202000727

184. **Mechanistic Guidelines in Nonreductive Conversion of CO_2: the Case of Cyclic Carbonates**
***** *Invited Perspective*
Francesco Della Monica, Arjan W. Kleij*
Catal. Sci. Technol. **2020**, *10*, 3483-3501, DOI: 10.1039/D0CY00544D

183. Cu-Catalyzed Synthesis of Tetrasubstituted 2,3-Allenols through Decarboxylative Silylation of Alkyne-Substituted Cyclic Carbonates
Kun Guo, Arjan W. Kleij*
Org. Lett. **2020**, *22* (10), 3942-3945, DOI: 10.1021/acs.orglett.0c01222

182. Advancing Halide-Free Catalytic Synthesis of CO_2 based Heterocycles
***** *Invited Article*
Arjan W. Kleij*
Curr. Opin. Green Sust. Chem. **2020**, 24, 72–81
DOI: 10.1016/j.cogsc.2020.04.002

181. Across the Board: Electrosynthesis for Regioselective Carboxylation of Aromatic Alkenes
***** *Invited Article*
A. W. Kleij*
ChemSusChem **2020**, *13*, 2098-2100, DOI: 10.1002/cssc.202000491

180. Effect of an Al(III) Complex on the Regio- and Stereoisomeric Formation of Bicyclic Organic Carbonates
C. Maquilón, B. Limburg, V. Laserna, D. Garay-Ruiz, J. González-Fabra, C. Bo, M. Martínez-Belmonte, E. C. Escudero-Adán and A. W. Kleij*
Organometallics **2020**, *39*, 1642-1651, DOI: 10.1021/acs.organomet.9b00773

179. Interview with Arjan W. Kleij
Arjan W. Kleij*
Org. Chem. Front. **2020**, *7*, 723-725, DOI: 10.1039/C9QO90110H

178. Fully bio-derived CO_2 polymers for non-isocyanate based polyurethane synthesis
Sarah-Elisabeth Dechent, Arjan W. Kleij* and Gerrit A. Luinstra*
Green Chem. **2020**, *22*, 969-978, DOI: 10.1039/C9GC03488A

177. Formal Synthesis of Indolizidine and Quinolizidine Alkaloids from Vinyl Cyclic Carbonates
Àlex Cristòfol, Christian Böhmer, Arjan W. Kleij*
Chem. Eur. J. **2019**, *25*, 15055–15058, DOI: 10.1002/chem.201904223

176. Entropic Corrections for the Evaluation of the Catalytic Activity in the Al(III) Catalysed Formation of Cyclic Carbonates from CO_2 and Epoxides
Joan González-Fabra, Fernando Castro-Gómez, W.M.C. Sameera, Gunnar Nyman, Arjan W. Kleij and Carles Bo*
Catal. Sci. Technol. **2019**, *9*, 5433-5440, DOI: 10.1039/C9CY01285K

175. Regio- and Enantioselective Preparation of Chiral Allylic Sulfones Featuring Elusive Quaternary Stereocenters [21]
** Highlighted in Synfacts* **2019**, *15*(12), 1396, DOI: 10.1055/s-0039-1691113
Aijie Cai, Arjan W. Kleij*
Angew. Chem. Int. Ed. **2019**, *58*, 14944-14949, DOI: 10.1002/anie.201908318

174. A Mechanistic Analysis of the Pd-Catalyzed Formation of Branched Allylic Amines reveals the Origin of the Regio- and Enantioselectivity through a Unique Inner-Sphere Pathway [20]
Lingfei Hu, Aijie Cai, Zhenzhen Wu, Arjan W. Kleij* and Genping Huang*
Angew. Chem. Int. Ed. **2019**, *58*, 14694-14702, DOI: 10.1002/anie.201907375

173. Advances in the Use of CO_2 as a Renewable Feedstock for the Synthesis of Polymers
Bruno Grignard, Sandro Gennen, Christine Jérôme, Arjan W. Kleij,* and Christophe Detrembleur*
Chem. Soc. Rev. **2019**, *48*, 4466-4514, DOI: 10.1039/c9cs00047j

172. Pd-Catalyzed Stereodivergent Allylic Amination of α-Tertiary Allylic Alcohols towards α,β-Unsaturated γ-Amino Acids
** Invited contribution for a special issue on "Sustainable Organic Synthesis"*
** Selected as VIP article*

** Editor´s choice - Spotlights*
Jianing Xie, Chang Qiao, Marta Martínez Belmonte, Eduardo C. Escudero-Adán, Arjan W. Kleij*
ChemSusChem **2019**, *12*, 3152-3158, DOI: 10.1002/cssc.201900433

171. Catalytic Nonreductive Valorization of Carbon Dioxide into Fine Chemicals
** Invited review*
José Enrique Gómez, Arjan W. Kleij*
Adv. Organomet. Chem. **2019**, *71*, 175-226, DOI: 10.1016/bs.adomc.2019.02.002

170. **Copper-Catalyzed Enantioselective Construction of Tertiary Propargylic Sulfones**
** Within the top 10% downloaded articles between Jan´18-Dec´19*
José Enrique Gómez, Alex Cristofol, Arjan W. Kleij*
Angew. Chem. Int. Ed. **2019**, *58*, 3903-3907, DOI: 10.1002/anie.201814242

169. Deciphering Key Intermediates in the Transformation of Carbon Dioxide into Heterocyclic Products
Rui Huang, Jeroen Rintjema, Joan González Fabra, Eddy Martín, Eduardo C. Escudero-Adán, Carles Bo,* Atsushi Urakawa,* and Arjan W. Kleij*
Nature Catal. **2019**, *2*, 62-70, DOI: 10.1038/s41929-018-0189-z

168. CO_2 Catalysis: Mature and Multifaceted
** Invited editorial*
Arjan W. Kleij
Adv. Synth. Catal. **2019**, *361*, 221-222, DOI: 10.1002/adsc.201801658

167. Sustainable Feedstock for Conversion of CO_2 to Cyclic and Polycarbonates
** Invited Book Chapter*
Antonello Pizzolante, Sarah Dechent, Arjan W. Kleij* and Christopher M. Kozak*
In: "*Carbon Dioxide Utilization*", Eds. Michael North & Peter Styring, De Gruyter, **2019**, p. 302-326, DOI: 10.1515/9783110665147-016, ISBN 978-3-11-066503-1

166. Nonreductive Reactions of CO_2 Mediated by Cobalt Catalysts: Cyclic and Polycarbonates
** Invited Book Chapter*
Thomas A. Zevaco,* Arjan W. Kleij*
In: "*Non-Noble Metal Catalysis: Molecular Approaches and Reactions*", Ed. Robert J. M. Klein Gebbink and Marc-Etienne Moret, Wiley-VCH, **2019** (ISBN: 978-3-527-34061-3), p. 529-548

165. Domino Synthesis of Unsaturated Lactams via Stereoselective Amination of Tertiary Allylic Alcohols
** Highlighted in Synfacts* **2019***, 15(02),* 0167, DOI: 10.1055/s-0037-1611987
Jianing Xie, Sijing Xue, Eduardo C. Escudero-Adán, Arjan W. Kleij*
Angew. Chem. Int. Ed. **2018**, *57*, 16727-16731, DOI: 10.1002/anie.201810160

164. Diversity-Orientated Stereoselective Synthesis through Pd-Catalyzed Switchable Decarboxylative C–N/C–S Bond Formation in Allylic Surrogates
** Within the top 10% downloaded articles between Jan´18-Dec´19*
Lei Deng, Arjan W. Kleij,* Weibo Yang*
Chem. Eur. J. **2018**, *24*, 19156-19161, DOI: 10.1002/chem.201805295

163. Palladium-Catalyzed (*Z*)-Selective Allylation of Nitroalkanes: Access to Highly Functionalized Homoallylic Scaffolds
À. Cristòfol, E. C. Escudero-Adán, A. W. Kleij*
J. Org. Chem. **2018**, *83*, 9978-9990, DOI: 10.1021/acs.joc.8b01372

162. Across the Board: Arjan W. Kleij
** Invited Article*
A. W. Kleij*
ChemSusChem **2018**, *11*, 2842–2844, DOI: 10.1002/cssc.201801648

161. Catalytic Transformations of Functional Cyclic Organic Carbonates
W. Guo,* J. E. Gómez, À. Cristòfol, J. Xie, A. W. Kleij*
Angew. Chem. Int. Ed. **2018**, *57*, 13735-13747, DOI: 10.1002/anie.201805009

160. Organocatalyzed Domino [3+2] Cycloaddition/Payne-Type Rearrangement using Carbon Dioxide and Epoxy Alcohols
** Highlighted on the Back Cover*
S. Sopeña, M. Cozzolino, C. Maquilón, M. Martínez Belmonte, E. C. Escudero-Adán, A. W. Kleij*
Angew. Chem. Int. Ed. **2018**, *57*, 11203-11207, DOI: 10.1002/anie.201803967

159. Catalysis: An Integrated Textbook for Students
** Invited Book Review*
A. W. Kleij*
Angew. Chem. Int. Ed. **2018**, *57*, 7564-7565, DOI: 10.1002/anie.201804203

158. Cooperative Multi-metal Catalysis Enabling an Asymmetric Cascade toward α-Quaternary Aldehydes
** Invited Preview*
A. W. Kleij*
CHEM **2018**, *4* (5), 931-933, DOI: 10.1016/j.chempr.2018.04.010.

157. Bifunctional Aminotriphenolate Complexes as One-Component Catalysts for the ROCOP of Cyclic Anhydrides and Epoxides
** Invited Article for a Special Issue Dedicated to ICIQ*
C. Martín, A. Pizzolante, E. Escudero-Adán, A. W. Kleij*
Eur. J. Inorg. Chem. **2018**, 1921-1927, DOI: 10.1002/ejic.201800142.

156. A Domino Process towards Functionally Dense Quaternary Carbons through Pd-Catalyzed Decarboxylative Csp^3-Csp^3 Bond Formation

** Highlighted in JACS Spotlights (J. Am. Chem. Soc. **2018**, 140,* 3809)*
* Highlighted on the Front Cover*
W. Guo, R. Kuniyil, J. E. Gómez, F. Maseras,* A.W. Kleij*
J. Am. Chem. Soc. **2018**, *140*, 3981-3987, DOI: 10.1021/jacs.7b12608

155. Enhanced Conductivity for Carbon Nanotube based Materials through Supramolecular Hierarchical Self-Assembly
G. A. Zelada-Guillén,* M. V. Escárcega-Bobadilla,* M. Wegrzyn, E. Giménez, G. Maier, A. W. Kleij*
Adv. Mater. Interfaces **2018**, *5*, 1701585, DOI: 10.1002/admi.201701585

154. Self-Assembly of Bis-Salphen Compounds: From Semiflexible Chains to Webs of Nanorings
** Highlighted in Chemistry World*
S. V. Pyrlin,* N. D. M. Hine, A. W. Kleij, M. M. D. Ramos*
Soft Matter **2018**, *14*, 1181-1194, DOI: 10.1039/C7SM02371E

153. Author Profile in ACIE
A.W. Kleij*
Angew. Chem. Int. Ed. **2018**, *57*, 4832, DOI: 10.1002/anie.201711677

152. Pd-Catalyzed Enantio- and Regioselective Formation of Allylic Aryl Ethers
** Highlighted in Synfacts **2018**, 14(02),* 0150
J. Xie, W. Guo, A. Cai, E. C. Escudero-Adán, A. W. Kleij*
Org. Lett. **2017**, *19*, 6388-6391, DOI: 10.1021/acs.orglett.7b03247

151. Copper-Mediated S_N2' Allyl−Alkyl and Allyl−Boryl Couplings of Vinyl Cyclic Carbonates
** Highlighted in Synfacts **2018**, 14(01),* 0076
N. Miralles, J.E. Gómez, A. W. Kleij,* E. Fernández*
Org. Lett. **2017**, *19*, 6096-6099, DOI: 10.1021/acs.orglett.7b02947

150. Polystyrene-supported bifunctional resorcinarenes as cheap, metal-free and recyclable catalysts for epoxide/CO_2 coupling reactions
** Highlighted in Synfacts **2018**, 14(02),* 0209
T. Jose, S. Cañellas, M. A. Pericàs,* A. W. Kleij*
Green Chem. **2017**, *19*, 5488-5493, DOI: 10.1039/C7GC02856C

149. Copper-Catalyzed Synthesis of gamma-Amino Acids Featuring Quaternary Stereocenters
** Highlighted in Synfacts **2018**, 14(01),* 0043
J. E. Gómez, W. Guo, S. Gaspa, A. W. Kleij*
Angew. Chem. Int. Ed. **2017**, *56*, 15035-15038, DOI: 10.1002/anie.201709511

148. Asymmetric Synthesis of alfa,alfa-Disubstituted Allylic Amines via Pd-Catalyzed Allylic Substitution
** Highlighted in Chemistry Views*

** Highlighted in Synfacts **2017**, 13 (12),* 1276
W. Guo,* A. Cai, J. Xie, A. W. Kleij*
Angew. Chem. Int. Ed. **2017**, *56*, 11797-11801, DOI: 10.1002/anie.201705825

147. Semiaromatic Polyesters Derived from Renewable Terpene Oxides with High Glass Transitions
L. Peña-Carrodeguas, C. Martín, A. W. Kleij*
Macromolecules **2017**, *50*, 5337-5345, DOI: 10.1021/acs.macromol.7b00862

146. Substrate Triggered Stereoselective Preparation of Highly Substituted Organic Carbonates
V. Laserna, E. Martin, E. C. Escudero-Adán, A. W. Kleij*
ACS Catal. **2017**, *7*, 5478-5482, DOI: 10.1021/acscatal.7b01748

145. Fatty Acid Based Biocarbonates: Al-Mediated Stereoselective Preparation of Mono-, Di- and Tricarbonates under Mild and Solvent-less Conditions
** Highlighted on the Front Cover*
** Selected as Hot Article*
L. Peña-Carrodeguas, A. Cristòfol, J. M. Fraile, J. A. Mayoral, V. Dorado-Horrillo, C. I. Herrerías,* A. W. Kleij*
Green Chem. **2017**, *19*, 3535-3541, DOI: 10.1039/C7GC01206C

144. Access to Biorenewable Polycarbonates with Unusual Glass-Transition Temperature (T_g) Modulation
** Highlighted in Chemistry Today (April **2018**)*
** Highlighted in El Periódico de Catalunya*
** Highlighted by The India Times*
** Highlighted by Bioplastics Magazine*
** Highlighted by Panama National Radio*
** Highlighted by La Vanguardia*
** Highlighted by Radio Euskadi*
** Highlighted by the Austrian Public Broadcasting Radio*
N. Kindermann, A. Cristòfol, A.W. Kleij*
ACS Catal. **2017**, *7*, 3860-3863, DOI: 10.1021/acscatal.7b00770

143. Pushing the Limits with Squaramide-based Organocatalysts in Cyclic Carbonate Synthesis
S. Sopeña, E. Martín, E. C. Escudero-Adán, A.W. Kleij*
ACS Catal. **2017**, *7*, 3532-3539, DOI: 10.1021/acscatal.7b00475

141. Metal-Free Synthesis of N-Aryl Amides using Organocatalytic Ring-Opening Aminolysis of Lactones
W. Guo, J. Enrique Gómez, L. Martínez-Rodríguez, N. A. G. Bandeira, C. Bo, A. W. Kleij*
ChemSusChem **2017**, *10*, 1969-1975, DOI: 10.1002/cssc.201700415

140. CO_2 Catalysis – Editorial

** Among the most cited articles during 2017-2018*
** Highlighted on the Front Cover*
🎖 Highly cited article (>100 times)
A. W. Kleij,* M. North,* A. Urakawa*
ChemSusChem **2017**, *10*, 1036-1038, DOI: 10.1002/cssc.201700218

139. Vanadium(V) Catalysts with High Activity for the Coupling of Epoxides and CO_2: Characterization of a putative Catalytic Intermediate
C. Miceli, J. Rintjema, E. Martin, E.C. Escudero-Adán, C. Zonta, G. Licini,* A. W. Kleij*
ACS Catal. **2017**, *7*, 2367-2373, DOI: 10.1021/acscatal.7b00109

138. Synthesis of Carbonates from Alcohols and CO_2
** Invited review article*
N. Kindermann, T. Jose, A. W. Kleij*
Top. Curr. Chem. **2017**, *375* (15), 61-88, DOI: 10.1007/s41061-016-0101-8

137. Mechanistic Insights into the Carbon Dioxide-Cyclohexene Oxide Copolymerization reaction: Is one Metal Center enough?
J. González-Fabra, F. Castro-Gómez, A. W. Kleij, C. Bo*
ChemSusChem **2017**, *10*, 1233-1240, DOI: 10.1002/cssc.201601520

136. Aluminum-Mediated Formation of Cyclic Carbonates: Benchmarking Catalytic Performance Metrics
J. Rintjema, A. W. Kleij*
ChemSusChem **2017**, *10*, 1274-1282, DOI: 10.1002/cssc.201601712

135. Recent Progress in Stereoselective Synthesis of Cyclic Organic Carbonates and Beyond
** Invited review article*
J. E. Gómez, A. W. Kleij*
Curr. Opin. Green Sust. Chem. **2017**, *3*, 55-60
DOI: 10.1016/j.cogsc.2016.11.005

134. Palladium-Catalyzed Stereoselective Formation of Substituted Allylic Thioethers and Sulfones
José Enrique Gómez, Wusheng Guo, Arjan W. Kleij*
Org. Lett. **2016**, *18*, 6042-6045. DOI: 10.1021/acs.orglett.6b02981

133. Palladium-Catalyzed Regio- and Enantio-Selective Synthesis of Allylic Amines Featuring Tetrasubstituted Tertiary Carbons
** Among the most accessed papers in November*
** Highlighted in Synfacts **2017**, 13 (1),* 0043
🎖 Highly cited article (>100 times)
A. Cai, W. Guo, L. Martínez-Rodríguez, A. W. Kleij*
J. Am. Chem. Soc. **2016**, *138*, 14194-14197, DOI: 10.1021/jacs.6b08841

132. Aluminum Catalyzed formation of Functional 1,3,2-Dioxathiolane 2-Oxides from Sulfur Dioxide: An Easy Entry towards N-Substituted Aziridines
V. Laserna, E. Martin, E. C. Escudero-Adán, A. W. Kleij*
Adv. Synth. Catal. **2016**, *358*, 3832-3839. DOI: 10.1002/adsc.201600831

131. Terpolymers derived from Limonene Oxide and Carbon Dioxide: Access to Cross-Linked Polycarbonates with Improved Thermal Properties
C. Martín, A. W. Kleij*
Macromolecules **2016**, *49*, 6285-6295, DOI: 10.1021/acs.macromol.6b01449

130. Stereoselective and Versatile Preparation of Tri- and Tetra-Substituted Allylic Amine Scaffolds under Mild Conditions
W. Guo, L. Martínez-Rodríguez, R. Kuniyil, E. Martin, E. C. Escudero-Adán, F. Maseras,* Arjan W. Kleij*
J. Am. Chem. Soc. **2016**, *138*, 11970-11978, DOI: 10.1021/jacs.6b07382

129. Alternating Copolymerization of Propylene Oxide and Cyclohexene Oxide with Tricyclic Anhydrides: Access to Partially Renewable Aliphatic Polyesters with High Glass Transition Temperatures
M. J. Sanford, L. Peña Carrodeaguas, N. J. Van Zee, A. W. Kleij,* G. W. Coates*
Macromolecules **2016**, *49*, 6394-6400, DOI: 10.1021/acs.macromol.6b01425

128. Substrate-Assisted Carbon Dioxide Activation as a Versatile Approach for Heterocyclic Synthesis
** Invited Review*
J. Rintjema, A. W. Kleij*
Synthesis **2016**, *48*, 3863-3878, DOI: 10.1055/s-0035-156

127. Highly Efficient Catalytic Formation of (*Z*)-1,4-But-2-ene Diols using Water as a Nucleophile
W. Guo, L. Martínez-Rodríguez, E. Martín, E. C. Escudero-Adán, A. W. Kleij*
Angew. Chem. Int. Ed. **2016**, *55*, 11037-11040, DOI: 10.1002/anie.201603638

126. Catalytic Coupling of Carbon Dioxide with Terpene Scaffolds: Access to Challenging Bio-Based Organic Carbonates
G. Fiorani,* M. Stuck, C. Martín, M. Martínez-Belmonte, E. Martin, E. C. Escudero-Adán, A. W. Kleij*
ChemSusChem **2016**, *9*, 1304-1311, DOI: 10.1002/cssc.201600238

125. Regioselective Organocatalytic Formation of Carbamates from Substituted Cyclic Carbonates
** Highlighted on the Front Cover*
** Selected as Very Important Paper*
S. Sopeña, V. Laserna, W. Guo, E. Martin, E. C. Escudero-Adán, A. W. Kleij*
Adv. Synth. Catal. **2016**, *358*, 2172-2178, DOI: 10.1002/adsc.201600290

124. Substrate Controlled Product Divergence in CO_2 Conversion to Heterocyclic Products
J. Rintjema, R. Epping, G. Fiorani, E. Martín, E. C. Escudero-Adán, A. W. Kleij*
Angew. Chem. Int. Ed. **2016**, *55*, 3972-3976, DOI: 10.1002/anie.201511521

123. Cavitand based Polyphenols as Highly Reactive Organocatalysts for the Coupling of Carbon Dioxide and Oxiranes
L. Martínez-Rodríguez, J. Otalora Garmilla, A. W. Kleij*
ChemSusChem **2016**, *9*, 749-755, DOI: 10.1002/cssc.201501463

122. Stereodivergent Carbamate Synthesis by Selective in Situ Trapping of Organic Carbonate Intermediates
W. Guo, V. Laserna, E. Martin, E. C. Escudero-Adán, A. W. Kleij*
Chem. Eur. J. **2016**, *22*, 1722-1727, DOI: 10.1002/chem.201504510

121. Catalytic One-Pot Oxetane to Carbamate Conversions: Formal Synthesis of Drug Relevant Molecules
** Selected as Very Important Paper*
** Highlighted on the Front Cover*
W. Guo, V. Laserna, J. Rintjema, A. W. Kleij*
Adv. Synth. Catal. **2016**, *358*, 1602-1607, DOI: 10.1002/adsc.201500895

120. Iron Complex Based catalysts
** Invited Book Chapter*
A. W. Kleij,* L. Martínez-Rodríguez, G. Fiorani, C. Martín
In: "*Sustainable Catalysis: Volume 1: Catalysis by Non-Endangered Metals*", Ed. Michael North, Royal Society of Chemistry, 2016, 13, 373-406, (ISBN: 9781782620563)

119. Metal Complexes Catalyzed Cyclization with CO_2
** Invited Book Chapter*
J. Rintjema, L. Peña Carrodeguas, V. Laserna, S. Sopeña, A. W. Kleij*
In: "*Topics in Organometallic Chemistry*, 53", Ed. Xiao-Bing Lu, Springer, 2016, 2, 39-71, (ISBN: 1436-6002)

118. Meet Our Editorial Board Member
A. W. Kleij*
Curr. Org. Chem. **2015**, *19*, 2321, DOI : 10.2174/1385272819241510131601 34

117. Copolymerization of CO_2 and Cyclohexene Oxide Mediated by Yb(salen)-Based Complexes
A. Decortes, R. M. Haak, C. Martín, M. Martínez Belmonte, E. Martin, J. Benet-Buchholz, A. W. Kleij*
Macromolecules **2015**, *48*, 8197-8207, DOI: 10.1021/acs.macromol.5b01880

116. Highly Efficient Organocatalyzed Conversion of Oxiranes and CO_2 into Organic Carbonates
** Highlighted on the Front Cover*

** Highlighted in Angewandte Spotlights*
** Highlighted in a Cover Profile article in ChemSusChem*
S. Sopeña, G. Fiorani, C. Martín, A. W. Kleij*
ChemSusChem **2015**, *8*, 3248-3254, DOI: 10.1002/cssc.201500710

115. Aluminium-Catalysed Oxazolidinone Synthesis and their Conversion into Functional Non-Symmetrical Ureas
** Highlighted on the Front Cover*
** Selected as Very Important Paper*
V. Laserna, W. Guo, A. W. Kleij*
Adv. Synth. Catal. **2015**, *357*, 2849-2854, DOI: 10.1002/adsc.201500635

114. A Metal-free Synthesis of N-Aryl Carbamates under Ambient Conditions
W. Guo, J. González-Fabra, N. A. G. Bandeira, C. Bo, A. W. Kleij*
Angew. Chem. Int. Ed. **2015**, *54*, 11686-11690, DOI: 10.1002/anie.201504956

113. Highly Chemo-Selective Catalytic Coupling of Substituted Oxetanes and Carbon Dioxide
J. Rintjema, W. Guo, E. Martin, E. C. Escudero-Adán, A. W. Kleij*
Chem. Eur. J. **2015**, *21*, 10754-10762, DOI: 10.1002/chem.201501576

112. Highly Efficient Chirality Transfer from Diamines Encapsulated within a Self-Assembled Calixarene-Salen Host
L. Martínez-Rodríguez, N. A. G. Bandeira, C. Bo, A. W. Kleij*
Chem. Eur. J. **2015**, *21*, 7144-7150, DOI: 10.1002/chem.201500333

111. Al(III)-Catalysed Formation of Poly(limonene)carbonate: DFT Analysis of the Origin of Stereoregularity
L. Peña Carrodeguas, J. González-Fabra, F. Castro-Gómez, C. Bo,* A. W. Kleij*
Chem. Eur. J. **2015**, *21*, 6115-6122, DOI: 10.1002/chem.201406334

110. New Iron Pyridylamino-Bis(Phenolate) Catalyst for Converting CO_2 into Cyclic Carbonates and Cross-Linked Polycarbonates
M. Taherimehr, J. P. Cardoso Costa Serta, A. W. Kleij, C. J. Whiteoak, P. P. Pescarmona
ChemSusChem **2015**, *8*, 1034-1042, DOI: 10.1002/cssc.201403323

109. Sustainable Conversion of Carbon Dioxide: the Advent of Organocatalysis
** Invited Review*
** Among the most cited articles in **2015***
Highly cited article (>100 times)
G. Fiorani, W. Guo, A. W. Kleij*
Green Chem. **2015**, *17*, 1375-1389, DOI: 10.1039/C4GC01959H

108. Recent Advances in the Catalytic Preparation of Cyclic Organic Carbonates

** Invited Review*
🎖 Highly cited article (>100 times)
C. Martín, G. Fiorani, A. W. Kleij*
ACS Catal. **2015**, *5*, 1353-1370, DOI: 10.1021/cs5018997

107. Diastereo- and Enantioselective Valorization of Cyclic Organic Carbonates
** Highlight Article*
A. W. Kleij, C. J. Whiteoak*
ChemCatChem **2015**, *7*, 51-53, DOI: 10.1002/cctc.201402801

106. Green Catalytic Synthesis of Heterocyclic Structures using Carbon Dioxide and Related Motifs
** Invited Book Chapter*
A. W. Kleij*
In: "*Green Synthetic Approaches for Biologically Relevant Heterocycles*", Ed. Goutam Brahmachari, Elsevier, Oxford/Amsterdam, 2014, 141-158, (ISBN: 978-0-12-80007-0)

105. Synthesis and Structural Features of Co(II) and Co(III) Complexes Supported by Aminotrisphenolate Ligand Scaffolds
C. Martín, C. J. Whiteoak, E. Martin, E. C. Escudero-Adán, J. R. Galán-Mascarós, A. W. Kleij*
Inorg. Chem. **2014**, *53*, 11675-11681, DOI: 10.1021/ic501883z

104. Exploring the Building-Block Potential of Readily Accessible Chiral Zn(salen) Complexes
E. Martin, M. Martínez-Belmonte, E. C. Escudero-Adán, A. W. Kleij*
Eur. J. Inorg. Chem. **2014**, 4632-4641, DOI: 10.1002/ejic.201402101

103. Comparing Kinetic Profiles between Bifunctional and Binary type of Zn(salen)-based Catalysts for Organic Carbonate Formation
** Invited Article*
C. Martín, A. W. Kleij*
Beilstein J. Org. Chem. **2014**, *10*, 1817-1825, DOI: 10.3762/bjoc.10.191

102. Carbon Dioxide as a Protecting Group: Highly Efficient and Selective Catalytic Access to Cyclic cis-Diol Scaffolds
** Selected as Hot Article*
🎖 Highly cited article (>100 times)
V. Laserna, G. Fiorani, C. J. Whiteoak,* E. Martin, E. Escudero-Adán, A. W. Kleij*
Angew. Chem. Int. Ed. **2014**, *53*, 10416-10419, DOI: 10.1002/anie.201406645

101. Preparation of CO_2/Diene Copolymers: Advancing Carbon Dioxide Based Materials
** Highlight Article*
G. Fiorani, A. W. Kleij*
Angew. Chem. Int. Ed. **2014**, *53*, 7402-7404, DOI: 10.1002/anie.201403969

100. Catalytic Conversion and Use of Carbon Dioxide – Editorial
A. W. Kleij*
Catal. Sci. Technol. **2014**, *4*, 1481-1481, DOI: 10.1039/C4CY90014F

99. Easily accessible bifunctional Zn(salpyr) catalysts for the formation of organic carbonates
C. Martín, C. J. Whiteoak, E. Martin, M. Martínez Belmonte, E. C. Escudero-Adán, A. W. Kleij*
Catal. Sci. Technol. **2014**, *4*, 1615-1621, DOI: 10.1039/C3CY01043K

98. Highly Active Aluminium Catalysts for the Formation of Organic Carbonates from CO_2 and Oxiranes
** Among the most cited articles of **2014/2015***
** Highlighted by Organic Process and Research Development (ACS)*
Highly cited article (>100 times)
C. J. Whiteoak, N. Kielland, V. Laserna, F. Castro-Gómez, E. Martin, E. C. Escudero-Adán, C. Bo, A. W. Kleij*
Chem. Eur. J. **2014**, *20*, 2264-2275, DOI: 10.1002/chem.201302536

97. Conversion of Oxiranes and CO_2 to Organic Cyclic Carbonates using a Recyclable, Bifunctional Polystyrene-Supported Organocatalyst
C. J. Whiteoak, A. H. Henseler, C. Ayats, A. W. Kleij,* M. A. Pericàs*
Green Chem. **2014**, *16*, 1552-1559, DOI: 10.1039/C3GC41919C

96. Spectroscopic Properties of Zn(salphenazine) Complexes and their Application in Small Molecule Organic Solar Cells
G. Salassa, J. W. Ryan, E. C. Escudero-Adán, A. W. Kleij*
Dalton Trans. **2014**, *43*, 210-221, DOI: 10.1039/C3DT52034J

95. High Activity and Switchable Selectivity in the Synthesis of Cyclic and Polymeric Cyclohexene Carbonates with Iron Amino Triphenolate Catalysts
Highly cited article (>100 times)
M. Taherimehr, S. M. Al-Amsyar, C. J. Whiteoak, A. W. Kleij,* P. P. Pescarmona*
Green Chem. **2013**, *15*, 3083-3090, DOI: 10.1039/C3GC41303A

94. Nanorings and Rods Interconnected by Self-Assembly Mimicking an Artificial Network of Neurons
M. V. Escárcega-Bobadilla, G. A. Zelada-Guillén, S. V. Pyrlin, M. Wegrzyn, M.M.D. Ramos, E. Giménez, A. Stewart, G. Maier,* A. W. Kleij*
Nat. Commun. **2013**, 4, 2648, DOI: 10.1038/ncomms3648

93. Carbon Dioxide Activation and Conversion
** Invited Book Chapter*
A. W. Kleij*

In: "*New and Future Developments in Catalysis: Activation of Carbon Dioxide*", Ed. Steven Suib, Elsevier, Amsterdam, **2013** (eISBN: 9780444538833), pages 559-585.

92. Catalyst Development in the Context of Ring Expansion-Addition of Carbon Dioxide to Epoxides to Give Organic Carbonates
** Invited Review*
C. J. Whiteoak, A. W. Kleij*
Synlett **2013**, *24*, 1748-1756, DOI: 10.1055/s-0033-1339483

91. Conformational Studies of Ligand-Template Assemblies and the Consequences for Encapsulation of Rhodium Complexes and Hydroformylation Catalysis
I. Jacobs, A. C. T. van Duin, A. W. Kleij, M. Kuil, D. M. Tooke, A. L. Spek, J. N. H. Reek*
Catal. Sci. Technol. **2013**, *3*, 1955-1963, DOI: 10.1039/C3CY20665C

90. Stereochemical Divergence in the Formation of Organic Carbonates Derived from Internal Epoxides
** Highlighted on the Front Cover*
C. J. Whiteoak, E. Martin, E. C. Escudero-Adán, A.W. Kleij*
Adv. Synth. Catal. **2013**, *355*, 2233-2239, DOI: 10.1002/adsc.201201070

89. Stereoselective Synthesis with Carbon Dioxide
** Among the Most Cited in **2014/2015***
Highly cited article (>100 times)
N. Kielland, C. J. Whiteoak, A. W. Kleij*
Adv. Synth. Catal. **2013**, *355*, 2115-2138, DOI: 10.1002/adsc.201300422

88. Supramolecular Bulky Phosphines Comprising 1,3,5-Triaza-7-Phosphaadamantane and Zn(salphen)s: Structural Features and Application in Hydrosilylation Catalysis
D. Anselmo, R. Gramage-Doria, T. Besset, M. V. Escarcega-Bobadilla, G. Salassa, E. C. Escudero-Adan, M. Martinez Belmonte, E. Martin, J. N. H. Reek, A.W. Kleij*
Dalton Trans. **2013**, *42*, 7595-7603, DOI: 10.1039/C3DT00078H

87. Merging Catalysis and Supramolecular Aggregation Features of Triptycene based Zn(salphen)s
D. Anselmo, G. Salassa, E. C. Escudero-Adan, E. Martin, A. W. Kleij*
Dalton Trans. **2013**, *42*, 7962-7970, DOI: 10.1039/C3DT00067B

86. A DFT Study on the Mechanism of the Cycloaddition Reaction of CO_2 to Epoxides Catalyzed by Zn(Salphen) Complexes
Highly cited article (>100 times)
F. Castro-Gomez, G. Salassa, A. W. Kleij,* C. Bo*
Chem. Eur. J. **2013**, *19*, 6289-6298, DOI: 10.1002/chem.201203985

85. A Powerful Aluminum Catalyst for the Synthesis of Highly Functional Organic Carbonates
Highly cited article (>100 times)
C. J. Whiteoak, N. Kielland, V. Laserna, E. C. Escudero-Adán, E. Martin, A. W. Kleij*
J. Am. Chem. Soc. **2013**, 135, 1228-1231, DOI: 10.1021/ja311053h

84. A Recyclable Trinuclear Bifunctional Catalyst derived from a Tetraoxo bis-Zn(salphen) Metalloligand
** Highlighted on the Back Cover*
M. V. Escárcega-Bobadilla, M. Martínez Belmonte, E. Martin, E. C. Escudero-Adán, A. W. Kleij*
Chem. Eur. J. **2013**, *19*, 2641-2648, DOI: 10.1002/chem.201204132

83. Unsymmetrical Octanuclear Schiff Base Clusters: Synthesis, Characterization and Catalysis
N. Kielland, E. C. Escudero-Adán, M. Martínez Belmonte, A. W. Kleij*
Dalton Trans. **2013**, *42*, 1427-1436, DOI: 10.1039/C2DT31723K

82. Metal-Mediated Coupling of Carbon Dioxide and Aryl/Vinyl Chlorides under Ambient Conditions
** Highlight Article*
A. W. Kleij*
ChemCatChem **2013**, *5*, 113-115, DOI: 10.1002/cctc.201200462

81. Reactivity Control in Iron(III) Amino Triphenolate Complexes: Comparison of Monomeric and Dimeric Complexes
C. J. Whiteoak, B. Gjoka, E. Martin, M. Martínez Belmonte, E. C. Escudero-Adán, C. Zonta, G. Licini,* A. W. Kleij*
Inorg. Chem. **2012**, *51*, 10639-10649, DOI: 10.1021/ic3008624

80. Zn-Mediated Synthesis of 3-Substituted Indoles using a Three-Component Reaction Approach
D. Anselmo, E. C. Escudero-Adán, M. Martínez Belmonte, A. W. Kleij*
Eur. J. Inorg. Chem. **2012**, 4694-4700, DOI: 10.1002/ejic.201200150

79. Merging Sustainability with Organocatalysis in the Formation of Organic Carbonates by using CO_2 as a Feedstock
Highly cited article (>100 times)
C. J. Whiteoak, A. Nova, F. Maseras,* A. W. Kleij*
ChemSusChem **2012**, *5*, 2032-2038, DOI: 10.1002/cssc.201200255

78. A Highly Active Zn(salphen) Catalyst for Production of Organic Carbonates in a Green CO_2 Medium
** Highlighted on the Front Cover*
M. Taherimehr, A. Decortes, S. M. Al-Amsyar, W. Lueangchaichaweng, C. J. Whiteoak, E. C. Escudero-Adán, A. W. Kleij,* P. P. Pescarmona*
Catal. Sci. Technol. **2012**, *2*, 2231-2237, DOI: 10.1039/C2CY20171B

77. Metal-Directed Assembly of Chiral bis-Zn(II) Schiff Base Structures
M. V. Escárcega-Bobadilla, D. Anselmo, S. J. Wezenberg, E. C. Escudero-Adán, M. Martínez Belmonte, E. Martin, A. W. Kleij*
Dalton Trans. **2012**, *41*, 9766-9772, DOI: 10.1039/C2DT30642E

76. Vanadium Catalyzed Synthesis of Cyclic Organic Carbonates
A. Coletti, C. J. Whiteoak, V. Conte,* A. W. Kleij*
ChemCatChem **2012**, *4*, 1190-1196, DOI: 10.1002/cctc.201100398

75. Artificial Chirogenesis: A Gateway to new Opportunities in Material Science and Catalysis
M. V. Escárcega-Bobadilla, A, W. Kleij*
Chem. Sci. **2012**, *3*, 2421-2428, DOI: 10.1039/C2SC20381B

74. Versatile Switching in Substrate Topicity: Supramolecular Chirality Induction in Di- and Trinuclear Host Complexes
M. V. Escárcega-Bobadilla, G. Salassa, M. Martínez Belmonte, E. C. Escudero-Adán, A. W. Kleij*
Chem. Eur. J. **2012**, *18*, 6805-6810, DOI: 10.1002/chem.201200335

73. Extremely Strong Self-Assembly of a Bimetallic Salen Complex Visualized at the Single-Molecule Level
G. Salassa, M. J. J. Coenen, S. J. Wezenberg, B. L. M. Hendriksen, S. Speller, J. A. A. W. Elemans,* A. W. Kleij*
J. Am. Chem. Soc. **2012**, *134*, 7186-7192, DOI: 10.1021/ja3030802

72. Isolation and Characterization of Unusual Multinuclear Schiff Base Complexes: Rearrangements Reactions and Octanuclear Cluster Formation
M. Martínez Belmonte, E. C. Escudero-Adán, E. Martin, A. W. Kleij*
Dalton Trans. **2012**, *41*, 5193-5200, DOI: 10.1039/C2DT30201B

71. An Efficient Iron Catalyst for the Synthesis of Five- and Six-Membered Organic Carbonates under Mild Conditions
** Among the Most Cited in **2012-2013***
Highly cited article (>100 times)
C. J. Whiteoak, E. Martin, M. Martínez Belmonte, J. Benet-Buchholz, A. W. Kleij*
Adv. Synth. Catal. **2012**, *354*, 469-476, DOI: 10.1002/adsc.201100752

70. Mild formation of Cyclic Carbonates using Zn(II) Complexes based on N_2S_2-Chelating Ligands
D. Anselmo, V. Bocokić, A. Decortes, E. C. Escudero-Adán, J. Benet-Buchholz, J. N. H. Reek,* A. W. Kleij*
Polyhedron **2012**, *32*, 49-53, DOI: 10.1016/j.poly.2011.05.025

69. Recent Advances with pi-Conjugated Salen Systems
Highly cited article (>100 times)
C. J. Whiteoak, G. Salassa, A. W. Kleij*
Chem. Soc. Rev. **2012**, *41*, 622-631, DOI: 10.1039/c1cs15170c

68. Vernier Templating of Nanoscopic Porphyrin Rings
** Highlight Article*
A. W. Kleij*
Angew. Chem. Int. Ed. **2011**, *50*, 10770-10771, DOI: 10.1002/anie.201103984

67. Shape-Persistent Octanuclear Zinc Salen Clusters: Synthesis, Characterization, and Catalysis
R. M. Haak, A. Decortes, E. C. Escudero-Adán, M. Martínez Belmonte, E. Martin, J. Benet-Buchholz, A. W. Kleij*
Inorg. Chem. **2011**, *50*, 7934-7936, DOI: 10.1021/ic201064d

66. Myth or Reality? Fixation of Carbon Dioxide into Complex Organic Matter under Mild Conditions
Highly cited article (>100 times)
R. Martin,* A. W. Kleij*
ChemSusChem **2011**, *4*, 1259-1263, DOI: 10.1002/cssc.201100102

65. A Short Desymmetrization Protocol for the Coordination Environment in Bis-Salphen Scaffolds
E. C. Escudero-Adán, M. Martínez Belmonte, E. Martin, G. Salassa, J. Benet-Buchholz, A. W. Kleij*
J. Org. Chem. **2011**, *76*, 5404-5412, DOI: 10.1021/jo2008065

64. Cooperative Self-Assembly of a Macrocyclic Schiff Base Complex
G. Salassa, A. M. Castilla, A. W. Kleij*
Dalton Trans. **2011**, *40*, 5236-5243, DOI: 10.1039/c1dt10069f

63. Ambient Fixation of Carbon Dioxide using a Zn(II)salphen Catalyst
Highly cited article (>100 times)
A. Decortes, A. W. Kleij*
ChemCatChem **2011**, *3*, 831-834, DOI: 10.1002/cctc.201100031

62. Access to Multinuclear Salen Complexes using Olefin Metathesis
** Highlighted on the Front Cover*
R. M. Haak, A. M. Castilla, M. Martínez Belmonte, E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Dalton Trans. **2011**, *40*, 3352-3364, DOI: 10.1039/C0DT01411G

61. Effective Chirogenesis in a Bis(metallosalphen) Complex through Host–Guest Binding with Carboxylic Acids
Highly cited article (>100 times)
** Highlighted on the Back Cover*
S. J. Wezenberg, G. Salassa, E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Angew. Chem. Int. Ed. **2011**, *50*, 713-716, DOI: 10.1002/anie.201004957

60. Salen-Complex-Mediated Formation of Cyclic Carbonates by Cycloaddition of CO_2 to Epoxides

Highly cited article (>100 times)
A. Decortes, A. M. Castilla, A. W. Kleij*
Angew. Chem. Int. Ed. **2010**, *49*, 9822-9837, DOI: 10.1002/anie.201002087

59. Dimetallic Activation of Dihydrogen Phosphate by Zn(salphen) Chromophores
S. J. Wezenberg, D. Anselmo, E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Eur. J. Inorg. Chem. **2010**, 4611-4616, DOI: 10.1002/ejic.201000455

58. Practical Approach to Structurally diverse Monoimine Salts and Nonsymmetrical Metallosalphen Complexes
E. C. Escudero-Adán, M. Martínez Belmonte, J. Benet-Buchholz, A. W. Kleij*
Org. Lett. **2010**, *12*, 4592-4595, DOI: 10.1021/ol101898y

57. Isolation and Characterization of a new Type of μ-Hydroxo-bis-Zn(salphen) Assembly
D. Anselmo, E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Dalton Trans. **2010**, *39*, 8733-8740, DOI: 10.1039/C001801E

56. Facile Synthesis of Substituted Mono-, Di-, Tri- and Tetra-2-aryl-2,3-Dihydro-1H-Perimidines
M. Martínez Belmonte, E. C. Escudero-Adán, J. Benet-Buchholz, R. M. Haak, A. W. Kleij*
Eur. J. Org. Chem. **2010**, 4823-4831, DOI: 10.1002/ejoc.201000670

55. Efficient Carbonate Synthesis under mild Conditions through Cycloaddition of Carbon Dioxide to Oxiranes using a Zn(salphen) Catalyst
Highly cited article (>100 times)
A. Decortes, M. Martínez Belmonte, J. Benet-Buchholz, A. W. Kleij*
Chem. Commun. **2010**, *46*, 4580-4582, DOI: 10.1039/C000493F

54. Self-assembly of Zn(salphen) Complexes: Steric Regulation, Stability Studies and Crystallographic Analysis revealing an Unexpected Dimeric 3,3'-tBu-Substituted Zn(salphen) Complex
M. Martínez Belmonte, S. J. Wezenberg, R. M. Haak, D. Anselmo, E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Dalton Trans. **2010**, *39*, 4541-4550, DOI: 10.1039/b925560e

53. Cooperative Multimetallic Catalysis using Metallosalens
Highly cited article (>100 times)
R. M. Haak, S. J. Wezenberg, A. W. Kleij*
Chem. Commun. **2010**, *46*, 2713-2723, DOI: 10.1039/C001392G

52. Axial Ligand Control over Monolayer and Bilayer Formation of Metal-Salophens at the Liquid–Solid Interface
** Highlighted on the Front Cover*
J. A. A. W. Elemans,* S. J. Wezenberg, M. J. J. Coenen, E. C. Escudero-Adán, J. Benet-Buchholz, D. den Boer, S. Speller, A. W. Kleij,* S. De Feyter*

Chem. Commun. **2010**, *46*, 2548-2550, DOI: 10.1039/B922212J

51. Cooperative Activation in the Hydrolytic Kinetic Resolution of Epoxides by a Bis-Cobalt(III)salen-Calix[4]arene Hybrid
** Highlighted by Synfacts **2010**, (4),* 0410-0410; DOI: 10.1055/s-0029-1219609
S. J. Wezenberg, A. W. Kleij*
Adv. Synth. Catal. **2010**, *352*, 85-91, DOI: 10.1002/adsc.200900673

50. Olefin Metathesis as a Tool for Multinuclear Co(III)salen Catalyst Construction: Access to Cooperative Catalysts
R. M. Haak, M. Martínez Belmonte, E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Dalton Trans. **2010**, *39*, 593-602, DOI: 10.1039/B911856J

49. Formation of Unusual Trinuclear Assemblies: Scope and Mechanism of Zn(salphen)-Templated Activation of Pyridine-Alcohol Substrates
** Highlighted on the Front Cover*
M. Martínez Belmonte, E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Eur. J. Inorg. Chem. **2009**, 5307-5318, DOI: 10.1002/ejic.200900862

48. Modular Synthesis of Heterobimetallic Salen Structures using Metal Templation
A. M. Castilla, S. Curreli, E. C. Escudero-Adán, M. Martínez Belmonte, J. Benet-Buchholz, A. W. Kleij*
Org. Lett. **2009**, *11*, 5218-5221, DOI: 10.1021/ol902149p

47. Assembly of Unusual Zn-Cluster Compounds based on Pyridinealcohol Platforms
D. Anselmo, E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Dalton Trans. **2009**, 7368-7373, DOI: 10.1039/b901394f

46. Ligation of Substituted Pyridines to Metallosalphen Complexes – Crystallographic Characterization of an Unexpected Four-Component Supramolecular Assembly Comprising a Sterically Demanding Ligand
E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Eur. J. Inorg. Chem. **2009**, 3562-3568, DOI: 10.1002/ejic.200900401

45. Zinc-centred Salen Complexes: Versatile and Accessible Supramolecular Building Motifs
** Highlighted on the Front Cover*
A. W. Kleij*
Dalton Trans. **2009**, 4635-4639, DOI: 10.1039/B902866H

44. Templated Synthesis and Site-selective Conversion of Completely Nonsymmetrical bis-Metallosalphen Complexes
A. M. Castilla, S. Curreli, N. M. Carretero, E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Eur. J. Inorg. Chem. **2009**, 2467-2471, DOI: 10.1002/ejic.200900282

43. Anion-Templated Formation of Supramolecular Multinuclear Assemblies
S. J. Wezenberg, E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Chem. Eur. J. **2009**, 15, 5695-5700, DOI: 10.1002/chem.200900528

42. Trapping of a Four-Coordinate Zinc Salphen Complex inside a Crystal Matrix
E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Chem. Eur. J. **2009**, *15*, 4233-4237, DOI: 10.1002/chem.200900528

41. Access to Hybrid Supramolecular Salen–Porphyrin Assemblies via a Selective in situ Transmetalation-Metalation-Self-Assembly Sequence
S. J. Wezenberg, G. A. Metselaar, E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Inorg. Chim. Acta **2009**, *362*, 1053-1057, DOI: 10.1016/j.ica.2008.05.022

40. Isolation and Structural Characterization of a Binuclear Intermediate Species pertinent to Transmetalation of Zn(salphen) Complexes and the Formation of Polynuclear Salen Structures
L. San Felices, E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Inorg. Chem. **2009**, *48*, 846-853, DOI: 10.1021/ic8018265

39. Nonsymmetrical Salen Ligands and their Complexes: Synthesis and Applications
** Among the Most Cited Articles in **2011***
A. W. Kleij*
Eur. J. Inorg. Chem. **2009**, 193-205, DOI: 10.1002/ejic.200800936

38. New Templating Strategies with Salen Scaffolds (salen=N,N'-bis(salicylidene)ethylenediamine dianion)
** Among the Top 10 Most Accessed during two Months*
🎖 Highly cited article (>100 times)
A. W. Kleij*
Chem. Eur. J. **2008**, *14*, 10520-10529, DOI: 10.1002/chem.200801149

37. Colorimetric Discrimination between Important Alkaloid Nuclei mediated by a Bis-Salphen Chromophore
S. J. Wezenberg, E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Org. Lett. **2008**, *10*, 3311-3314, DOI: 10.1021/ol801167r

36. A Modular Approach towards Nonsymmetrical Bis(metallosalen) Building Blocks
S. Curreli, E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Eur. J. Inorg. Chem. **2008**, 2863-2873, DOI: 10.1002/ejic.200800274

35. Supramolecular Adsorption of Alkaloids by Metallosalphen Complexes
E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*

Inorg. Chem. **2008**, *47*, 4256-4263, DOI: 10.1021/ic702257e

34. Versatile Approach toward the Self-Assembly of Heteromultimetallic Salen Structures
S. J. Wezenberg, E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Inorg. Chem. **2008**, *47*, 2925-2927, DOI: 10.1021/ic800033v

33. Material Applications for Salen Frameworks
Highly cited article (>100 times)
S. J. Wezenberg, A. W. Kleij*
Angew. Chem. Int. Ed. **2008**, *47*, 2354-2364, DOI: 10.1002/anie.200702468

32. Creation of a Nonsymmetric Dimethanolpyridine Ligand: A rare Zn(salphen) Template Effect
E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Inorg. Chem. **2008**, *47*, 410-412, DOI: 10.1021/ic702225h

31. Autocatalytic Demetalation of a Zn(salphen) Complex provoked by Unprotected N-heterocycles
E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Dalton Trans. **2008**, 734-737, DOI: 10.1039/b713039b

30. Expedient Method for the Transmetalation of Zn(II)-Centered Salphen Complexes
E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
Inorg. Chem. **2007**, *46*, 7265-7267, DOI: 10.1021/ic701245r

29. Facile Isolation of Bisimines based on 3,3'-Diaminobenzidine: Direct Access to Unsymmetrical Bimetallic Salphen Building Blocks
S. Curreli, E. C. Escudero-Adán, J. Benet-Buchholz, A. W. Kleij*
J. Org. Chem. **2007**, *72*, 7018-7021, DOI: 10.1021/jo070696f

28. Metal-Directed Self-assembly of a Zn(II)-Salpyr Complex into an Open Vase Structure
Arjan W. Kleij, Mark Kuil, Duncan M. Tooke, Anthony L. Spek and Joost N. H. Reek*
Inorg. Chem. **2007**, *46*, 5829-5831, DOI: 10.1021/ic700408v

27. Rigid Bis-Zinc(II) Salphen Building Blocks for the Formation of Template-Assisted Bidentate Ligands and their Application in Catalysis
Mark Kuil, P. Elsbeth Goudriaan, Arjan W. Kleij, Duncan M. Tooke, Anthony L. Spek, Piet W. N. M. van Leeuwen, Joost N. H. Reek*
Dalton Trans. **2007**, 2311-2320, DOI: 10.1039/b702375h

26. 2-(1-Dimethyl)aminomethyl)phenylpalladium(II) Complexes 5-Functionalized with Fluorous Silyl Tails
Henk Kleijn, Arjan W. Kleij, Jeroen M. de Pater, Berth-jan Deelman, Martin Lutz, Anthony L. Spek, Johann T. B. H. Jastrzebski, Gerard van Koten*
Inorg. Chim. Acta **2006**, *359*, 2674-2682, DOI: 10.1016/j.ica.2005.10.056

25. Ligand-Template Directed Assembly: An Efficient Approach for the Supramolecular Encapsulation of Transition Metal Catalysts
** Highlighted on the Front Cover*
🎖 Highly cited article (>100 times)
Arjan W. Kleij, Joost N.H. Reek*
Chem. Eur. J. **2006**, *12*, 4218-4227, DOI: 10.1002/chem.200500875

24. Supramolecular Zinc(II)salphen Motifs: Reversible Dimerization and Templated dimeric structures
Arjan W. Kleij, Mark Kuil, Martin Lutz, Duncan M. Tooke, Anthony L. Spek, Paul C. J. Kamer, Piet W. N. M. van Leeuwen, Joost N. H. Reek*
Inorg. Chim. Acta **2006**, *359*, 1807-1814, DOI: 10.1016/j.ica.2005.06.069

23. Structural Features and Dynamical Behavior of Heteroleptic trans-C,C-Bisaryl-Platinum(II) and -Palladium(II) Complexes
Catelijne H. M. Amijs, Arjan W. Kleij, Gerard P. M. van Klink, Anthony L. Spek, and Gerard van Koten*
Organometallics **2005**, *24*, 2773-2779, DOI: 10.1021/om0500974

22. Zn-Salphen Complexes as Versatile Building Blocks for the Construction of Functional Supramolecular Box Assemblies
🎖 Highly cited article (>100 times)
Arjan W. Kleij, Duncan M. Tooke, Mark Kuil, Martin Lutz, Anthony L. Spek and Joost N. H. Reek*
Chem. Eur. J. **2005**, *11*, 4743-4750, DOI: 10.1002/chem.200500227

21. Encapsulated Transition Metal Catalysts Comprising Peripheral Zn(II)salen Building Blocks: Template-Controlled Reactivity and Selectivity in Hydroformylation Catalysis
Arjan W. Kleij, Martin Lutz, Anthony L. Spek , Piet W. N. M. van Leeuwen and Joost N. H. Reek*
Chem. Commun. **2005**, 3661-3663, DOI: 10.1039/B503708E

20. A Convenient Route Toward Functional Non-Symmetric Metallo-Salphen Complexes
Arjan W. Kleij,* Duncan M. Tooke, Martin Lutz, Anthony L. Spek and Joost N.H. Reek*
Eur. J. Inorg. Chem. **2005**, 4626-4634, DOI: 10.1002/ejic.200500628

19. Template-Assisted Ligand Encapsulation; the Impact of an Unusual Coordination Geometry on a Supramolecular Pyridylphosphine-Zn(II)porphyrin
Arjan W. Kleij, Mark Kuil, Duncan M. Tooke, Anthony L. Spek, Joost N. H. Reek*
Inorg. Chem. **2005**, *44*, 7696-7698, DOI: 10.1021/ic050858v

18. A Fast Access to Non-Symmetrically Substituted 1,3-Alternate Conformers of Calix[4]arenes

Arjan W. Kleij,* Pilar Prados, Javier de Mendoza,*
Eur. J. Org. Chem. **2004**, 2848-2852, DOI: 10.1002/ejoc.200400161

17. Metallacalixarene Synthons with Covalently Connected Aryl-Pd(II) Complexes
Arjan W. Kleij,* Beatriz Souto, César J. Pastor, Pilar Prados, Javier de Mendoza,*
J. Org. Chem. **2004**, *69*, 6394-6403, DOI: 10.1021/jo0494782

16. Unexpected Single-Step Formation of 1,2-hetero-Difunctionalized Calix[4]arenes from a Tribenzoyl Precursor
Arjan W. Kleij,* Beatriz Souto, César J. Pastor, Pilar Prados, Javier de Mendoza,*
J. Org. Chem. **2003**, 68, 8711-8714, DOI: 10.1021/jo035150h

15. Construction of Supported Organometallics using Cycloplatinated Arylamine Ligands
Michel D. Meijer, Arjan W. Kleij, Scott B. Williams, Dianne Ellis, Martin Lutz, Anthony L. Spek, Gerard P.M. van Klink, Gerard van Koten*
Organometallics **2002**, *21*(2), 264-271, DOI: 10.1021/om010500g

14. Dendritic Polymer Applications: Catalysts (Review)
Arjan W. Kleij, Alan Ford, Johann T. B. H. Jastrzebski, Gerard van Koten
In "*Dendrimers and other Dendritic Polymers*", ed. J.M.J. Frechet and Donald A. Tomalia, John Wiley & Sons Ltd, Sussex (England) **2002**

13. Polycationic (Mixed) Core-Shell Dendrimers for Binding and Delivery of Inorganic/Organic Substrates
Arjan W. Kleij, Rob van de Coevering, Robertus J. M. Klein Gebbink, Anne-Marie Noordman, Anthony L. Spek and Gerard van Koten*
Chem. Eur. J. **2001**, *7*(1), 181-192, DOI: 10.1002/1521-3765(20010105)7:1<181::AID-CHEM181>3.0.CO;2-1

12. Synthesis and Characterization of Platinum(II)-Terminated Dendritic Carbosilanes: X-ray Crystal Structure of the Model Species [PtCl(C_6H_3{CH_2Me_2}-2-$SiMe_3$-5)(PPh_3)]
Arjan W. Kleij, Robertus J.M. Klein Gebbink, Martin Lutz, Anthony L. Spek and Gerard van Koten*
J. Organomet. Chem. **2001**, *621*(1,2), 190–196, DOI: 10.1016/S0022-328X(00)00763-4

11. Halide-Assisted Macrocyclic Ring Formation in Cyclometalated Carbosilane Dendrimers with 1-[$C_6H_3(CH_2NMe_2)$-4-(PdCl)-3] Peripheral Groups: Application as Aldol Condensation Catalysts
Arjan W. Kleij, Robertus J. M. Klein Gebbink, Paul A. J. van den Nieuwenhuijzen, Huub Kooijman, Martin Lutz, Anthony L. Spek, Gerard van Koten
Organometallics **2001**, *20*(4), 634-647, DOI: 10.1021/om000647s

10. Modular Approaches Towards Metallodendritic Homogeneous Catalysis

Gerard van Koten,* Arjan W. Kleij, Rob van de Coevering, Martin Albrecht, Neldes J. Hovestad, Jaap Boersma, Robertus J.M. Klein Gebbink
Polym. Mat. Sci. Eng. **2001**, *84*, 154-155

9. Dendritic Catalysts (Review)
Highly cited article (>100 times)
R. Kreiter, Arjan W. Kleij, R.J.M. Klein Gebbink, G. van Koten*
Top. Curr. Chem. **2001**, *217*, 163-199

8. A New Homobimetallic Arenediyl Diplatinum(II) Unit as Building Block for Macromolecular Synthesis. X-ray Crystal structure of [$C_6H_2(CH_2NMe_2)_2$-2,4-($PtCl(PPh_3)$)2-1,3]
Michel D. Meijer, Arjan W. Kleij, Martin Lutz, Anthony L. Spek, Gerard van Koten*
J. Organomet. Chem. **2001**, *640*, 166-169, DOI: 10.1016/S0022-328X(01)01176-7

7. The Dendritic Effect in Homogeneous Catalysis with Carbosilane-Supported Arylnickel(II) Catalysts: Observation of Active-Site Proximity Effects in Atom-Transfer Radical Addition
Arjan W. Kleij, Robert A. Gossage, Johann T. B. H. Jastrzebski, Jaap Boersma, Gerard van Koten*
Angew. Chem. Int. Ed. **2000**, *39*(1), 176-178, DOI: 10.1002/(SICI)1521-3773(20000103)39:1<176::AID-ANIE176>3.0.CO;2-3

6. Macromolecular-Multisite Catalysts Obtained by Grafting Diaminoaryl Palladium(II) Complexes onto a Hyperbranched Polytriallylsilane Support
Highly cited article (>100 times)
Christian Schlenk, Arjan W. Kleij, Holger Frey,* Gerard van Koten*
Angew. Chem. Int. Ed. **2000**, *39*(19), 3445-3447, DOI: 10.1002/1521-3773(20001002)39:19<3445::AID-ANIE3445>3.0.CO;2-8

5. A 'Dendritic Effect' in Homogeneous Catalysis with Carbosilane-Supported Arylnickel(II) Catalysts: Observation of Active-Site Proximity Effects in Atom-Transfer Radical Addition
Highly cited article (>100 times)
Arjan W. Kleij, Robert A. Gossage, Robertus J. M. Klein Gebbink, Nils Brinkmann, Ed J. Reijerse, Udo Kragl, Martin Lutz, Anthony L. Spek, Gerard van Koten*
J. Am. Chem. Soc. 2000, *122*(49), 12112-12124, DOI: 10.1021/ja0026612

4. Dendritic Carbosilanes Containing Silicon-Bonded 1-[$C_6H_2(CH_2NMe_2)_2$-3,5-Li-4] or 1-[$C_6H_3(CH_2NMe_2)$-4-Li-3] Mono- and Bis(amino)aryllithium End Groups: Structure of {[$CH_2SiMe_2C_6H_3(CH_2NMe_2)$-4-Li-3]}$_2$
Arjan W. Kleij, Henk Kleijn, Johann T. B. H. Jastrzebski, Wilberth J. J. Smeets, Anthony L. Spek, Gerard van Koten*
Organometallics **1999**, *18*(2), 268-276, DOI: 10.1021/om980627e

3. Carbosilane Molecules with Mono- and Bis(amino)arylmetal End Groups: Structures of {NiI[$C_6H_2(CH_2NMe_2)_2$-2,6-$SiMe_3$-4] and Tetranuclear {[$CH_2Si(Me)_2C_6H_3(CH_2NMe_2)$-4-(PdCl)-3]}$_2$

Arjan W. Kleij, Henk Kleijn, Johann T. B. H. Jastrzebski, Anthony L. Spek, Gerard van Koten*

Organometallics **1999**, *18*(2), 277-285, DOI: 10.1021/om980758f

2. Application of S,N-Chelating Chiral Zinc Bis(aminoarenethiolates) as New Precursor Catalysts in the Enantioselective Addition of Dialkylzincs to Aldehydes

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Organometallics **1997**, *16*(13), 2847-2857, DOI: DOI: 10.1021/om9701478

1. Migration of Redundant Ethynyl Substituents Along Polycyclic Aromatic Hydrocarbon Peripheries. Consequences for Polycyclic Aromatic Hydrocarbon Build Up

Martin Sarobe, Leonardus W. Jenneskens,* Arjan W. Kleij, Maria Petroutsa

Tetrahedron Lett. **1997**, *38*(41), 7255-7258, DOI: 10.1016/S0040-4039(97)01685-7