

Marek Ilan

Curriculum Vitae and List of Publications

Identification: 057819963

Date and Place of Birth: February, 15 1963, Haifa Israel

Family status: Married + three children

Citizenship: Israeli and French

Mailing Address: Schulich Faculty of Chemistry. Technion-Israel Institute of Technology.
Haifa 32000 Israel.

Phone: (972)-4-8293709. Cellphone : (972)52-6855448

Academic Degrees

- | | |
|------|---|
| 1995 | Habilitation |
| 1988 | Ph.D.- Thesis from Pierre et Marie Curie University, Paris, France. |
| 1986 | M.Sc., Universite Pierre et Marie Curie, Paris, France. |
| 1982 | BsC, Universite Pierre et Marie Curie, Paris, France. |

Academic Appointments

- | | |
|----------------|---|
| 2022– present | Director of the Stewart and Lynda Resnik Sustainability Center for Catalysis |
| 2022– present | Distinguished University Professor, Technion-Israel Institute of Technology |
| 2019/10 | Visiting Professor University of Ottawa, Canada |
| 2015/9-2015/10 | Visiting Professor Osaka Prefecture University, Osaka, Japan |
| 2013/8-2013/10 | Distinguished Moore Scholar Visiting Professor California Institute of Technology (CalTech), Pasadena, California |
| 2011/2-2011/3 | Visiting professor at Ecole Nationale Supérieure de Chimie de Montpellier, France |
| 2010/8-2010/9 | Visiting Professor California Institute of Technology (CalTech), Pasadena, California |
| 2010/02 | Visiting Professor Universite Paris-Descartes, Paris V, France |

2007/10	Visiting Professor Universite Louis Pasteur, Strasbourg, France
2006/3-2006/7	Visiting Professor University de Montreal, Montreal, Quebec, Canada
2005	Holder of a chair: <i>Sir Michael and Lady Sobell Academic Chair</i>
2004	Full Professor, Department of Chemistry, Technion-Israel Institute of Technology
2000	Associate Professor, Department of Chemistry, Technion-Israel Institute of Technology (tenured position)
1997	Senior Lecturer, Department of Chemistry, Technion-Israel Institute of Technology.
1994	Charge de recherche: First class at the CNRS (National Center for Scientific Research) Universite Pierre-et-Marie Curie, Paris, France (tenured position).
1990	Independant Research Position as Charge de recherche at the CNRS (National Center for Scientific Research). Universite Pierre-et-Marie Curie, Paris, France.
1989	Post-doctoral position in Professor Ghosez laboratory (Louvain-la-Neuve, Belgium)

Research Interests

Synthetic Organic Chemistry

My research group is primarily concerned with the design and development of new and efficient stereo- and enantioselective strategies that do not have precedence in classical organic chemistry for the synthesis of important complex molecular structures.

We are particularly interested in developing carbon-carbon bond forming processes, which efficiently create multiple stereocenters from alkynes and alkenes. We place a special emphasis on mechanistic investigation to give insight into the origins of chemo- and stereoselectivity of discovered processes. Deep understanding of reaction mechanisms governs our optimization work towards identifying the most efficient and general protocols and allows for expanding the scope of our methodologies.

Results of Assessment of teaching abilities (based on 5)

Semester/year	Course	Registered/Answered	General
Grade			
2/2000	127728	5/19	4.89
1/2001	124808	28/23	4.74
2/2001	127729	21/18	4.94
1/2002	124808	32/20	4.15
1/2003	127728	19/4	4.71
2/2003	127109	31/8	3.94
1/2005	127729	42/34	3.68
1/2006	127727	34/27	4.54
2/2006	127728	20/3	4.05
1/2007	127729	19/4	4.32
2/2007	127732	3/1	4.68
1/2008	127727	15/3	4.14
2/2008	127728	17/6	4.60
1/2009	127729	19/2	4.64
2/2009	127727	17/8	4.71
1/2010	127729	23/10	4.31
2/2010	125801	142/49	4.03
1/2011	124708	101/67	4.39
2/2013	127729	10/10	4.80
1/2014	127738	35/21	4.72
2/2014	127727	24/15	4.71
1/2015	127738	17/6	4.76
2/2015	127729	20/7	4.94
1/2016	127738	26/12	4.86
2/2016	124801	53/84	4.65
2/2016	127738	4/15	4.82
2/2017	126700	14/6	4.67
1/2018	127738	25/15	4.69
1/2019	127727	9/15	4.65
1/2019	127738	8/15	4.59

Technion Activities

2023	Search Committee Technion President
2022– present	Head of the Stewart and Lynda Resnik Sustainability Center for Catalysis
2020 – present	Member of the Preparatory Technion's Committee for Dr. Honoris Causa
2019 – present	Chairman of the President's Committee for Prizes and Awards
2016	Member Harvey Professional Committee
2016 – 2020	Member of the Technion's Senate Standing Committee for the Appointment of Senior Staff and Tenure
2011 – 2015	Member of the Preparatory Technion's Committee for the Appointment of Senior Staff and Tenure
2015	Member Harvey Professional Committee
2013	Chairman Harvey Professional Committee
2011 – 2012	Member of the Teaching Committee, Department of Chemistry
2009 – 2013	Member of the Technion's patents committee
2012 – 2015	Coordinator of the colloquium at the Schulich Faculty of Chemistry
2007 – 2011	Member of the Technion's Prizes and Awards committee
2006 – present	Head of the Schulich committee for Academic affairs
2005 – 2006	Head of the Organic and Inorganic Department
2003 – 2004	Member of the Technion Committee for evaluation of Students
2003 – 2005	Member of the Teaching Committee, Department of Chemistry
2002 – 2003	In charge of the Safety of the Chemistry Department
1998 – 2002	Coordinator of the Seminars in Organic and Inorganic Chemistry

International Activities

2024	Member Evaluation Committee Department of Chemistry, Hebrew University of Jerusalem
2024	Member Evaluation Committee IBM, Daejeon, Korea
2023	Chairman evaluation Committee Department of Chemistry, University of Vienna
2022 – present	Member of the International board to evaluate the CNRS, France

- 2021 – present Member of the Advisory Committee of the Batsheva Rothschild Foundation of the Israel National Academy of Sciences
- 2021 – present Aaron and Ephraim Katzir Scholarship Fund
- 2016 – present Member of the Rothschild Committee
- 2016 – present Member of the Jury *Grand Prix de la Fondation de la Maison de la Chimie*, Paris. France
- 2013 Member of the Ecole Normale Supérieure (ENS) Chemistry Scientific Advisory Board
- 2012 - 2016 Member of Scientific Council for the development of Chemistry of the Institut of Natural Substances, Gif/Yvette. France
- 2012 Chairman evaluation committee Department of Chemistry, Cyprus
- 2012 – 2015 Elected President of the Division of Organic Chemistry of EuChemS (European Association for Chemical and Molecular Sciences)
- 2009 - 2011 Vice-President of the Division of Organic Chemistry of EuChemS
- 2009 Member of the evaluation committee University of Bordeaux, France
- 2007 - present Israeli representative at the of the Division of Organic Chemistry of EuChemS
- 2007 - 2011 Israeli President of the Scientific commission of the France-Israel Foundation
- 2007 – 2009 President of the Scientific Committee of the European Symposium on Organic Chemistry (ESOC)
- 2005 - 2009 Member of the Scientific Advisory Board of the European Symposium on Organic Chemistry (ESOC)

Membership in Professional Societies

Israel Chemical Society

American Chemical Society

Editorial Advisory Board

- 2021 – present Member of the Editorial Board of *Chem Catalysis*, (Cell press)
- 2019 – present Member of the Editorial Board of *ACS Central Science*, (ACS)
- 2018 – 2023 Member of the Editorial Advisory Board of *Chemical Reviews*, (ACS)
- 2016 – present Member of the Scientific Advisory Board of *Helvetica Chimica Acta*, WILEY-VCH

2014 – 2021	Member of the Scientific Advisory Board of <i>Chemistry, A European Journal</i> , WILEY-VCH
2014 – present	Member of the Scientific Advisory Board of <i>Angewandte Chemie, International Edition</i> , WILEY-VCH
2014 – present	Member of the Scientific Advisory Board of <i>Synthesis</i> , Thieme
2014 – present	Member of the Scientific Advisory Board of <i>Synlett</i> , Thieme
2011 – 2021	Member of the Scientific Advisory Board of the <i>European Journal of Organic Chemistry</i> , WILEY-VCH
2011 – present	Member of the Scientific Advisory Board of <i>The Chemical Record</i> , Wiley-VCH
2011 – present	Member of the Scientific Advisory Board of <i>Advanced Synthesis and Catalysis</i> , Wiley-VCH
2007 – 2020	Member Advisory Board <i>Chemical Communications</i> , Royal Society of Chemistry (RSC).
2007 – 2021	Member Advisory Board <i>Organic and Biomolecular Chemistry</i> , Royal Society of Chemistry (RSC)

Editorial Board Members

2021 – present	Volume Editor of <i>Comprehensive Organic Synthesis</i> . Third edition. Elsevier
2017 – present	Associate Editor <i>Tetrahedron</i> , Elsevier
2017 – present	Senior-editor of <i>The Patai's Chemistry of Functional Groups</i> , Wiley-Chichester
2009 - present	Associate Editor of the <i>Israel Journal of Chemistry</i> , Wiley-VCH
2008 – present	Associate Editor of <i>Beilstein Journal of Organic Chemistry</i> , Beilstein
2014 – 2017	Associate Editor of <i>The Patai's Chemistry of Functional Groups</i> , Wiley-Chichester
2011	Volume Editor of <i>Comprehensive Organic Synthesis</i> . Second edition. Elsevier
2010 - 2017	Volume Editor of <i>Science of Synthesis</i> , Thieme

Awards and Honors

- 2025 Richard Willstätter Lecturership, Germany
- 2025 The Inaugural Olivier Lectureship, Netherlands
- 2025 29th Felix Serratosa Lectureship, Spain
- 2024 EuChemS Division of Organic Chemistry - Research Award
- 2022 Recipient of the Breakthrough Research Grant, ISF
- 2021 Elected as Member of the Academia Europaea
- 2021 Arthur C. Cope Scholars Award from the American Chemical Society
- 2020 Adolf Lieben Lecturer 2020, Austrian Chemical Society
- 2019 Elected as Member of the Israel Academy of Sciences and Humanities
- 2019 Elected as excellent teacher (top 4% of the Technion, 1st semester)
- 2019 – 2024 ERC Advanced Research Grant
- 2018 President of the 53rd Bürgenstock Conference on Stereochemistry
- 2017 Elected as Member of the French Academy of Sciences
- 2017 Taiwan National Science Council Visiting Scholar
- 2017 Vice-President of the 52nd Bürgenstock Conference on Stereochemistry
- 2017 Basel Chemical Society Lecture, Basel, Switzerland February 2017
- 2016 The Yannai Award for Excellence in teaching
- 2016 Elected as excellent teacher (top 4% of the Technion, 2nd semester)
- 2016 European Journal of Chemistry Lectureship, Weimar, Germany
- 2016 Thieme Lectureship, Stuttgart, Germany
- 2015 SFB-guest professor Wilhelms-University Munster, Germany
- 2015 The 2015 Joseph and Patricia Vanderslice Lecturer, Boston College, MA, USA
- 2015 The Weizmann Prize for Exact Sciences
- 2015 17th International Organic Chemistry Foundation Yoshida Lectureship, Japan
- 2014 Eli Lilly Lecturer, Urbana-Champaign, IL, USA
- 2014 Elected as excellent teacher (top 4% of the Technion, 1st semester)
- 2014 Elected as excellent teacher (top 4% of the Technion, 2nd semester)
- 2013 – 2018 ERC Advanced Research Grant
- 2013 Moore Distinguished Scholar Appointment, California Institute of Technology (CalTech), Pasadena
- 2012 Schulich Award for long-term excellence in Teaching
- 2012 Janssen Pharmaceutica Prize for Creativity in Organic Synthesis

2012	Israel Chemical Society Excellence Award
2011	Royal Society Chemistry Organometallic Award (UK)
2011	Taiwan National Science Council Visiting Scholar
2010	The German-Technion Society Award for Academic Excellence
2010	Schulich Prize for the Promotion of Extraordinary Academic Activities
2010	Fellow of the Royal Society of Chemistry (FRSC)
2009	The Henry Taub Prize for Academic Excellence
2007	Schulich Award for Excellence in Teaching
2005	Bessel Award of the Humboldt Foundation
2004	Merck Sharpe and Dohm Lecturer
2003	Prize for Excellent Young Chemist, The Israel Chemical Society
2002	Salomon Simon Mani Award for excellence in Teaching
2002	Michael Bruno Memorial Award 2002, Rothschild Foundation
2002	Elected as excellent teacher (top 5% of the Technion, 1st semester)
2000	Klein Award, Israel
2000	Yosefa and Leonid Allschwang award, (ISF), Israel
2000	Elected as excellent teacher (2nd semester)
1999	Elected as excellent teacher (2nd semester)
1998	Yigal Alon Fellowship
1998	Evelyn and Salman Grand Academic Lectureship-USA
1998	Henry Gutwirth Foundation award
1997	Japan Society for the Promotion of Science Visiting Professor Award
1997	Lawrence G. Horowitz Career Development Chair
1997	First French Chemical Society-Acros Price for young Organic Chemist

Graduate students

Completed Master Theses

Shahera Farhat (2002). *New preparation of vinyl organometallic derivatives from heterosubstituted alkenes.* (Present position: Teacher high school).

Amal Shibli (2002). *Sp³ zinc carbenoid as a source of stereogenic centers.* (then, PhD thesis at the Hebrew University of Jerusalem. Present position: Specialist manufacturing at Sigma-Aldrich, Israel)

- Helena Chechik** (2003). *Stereospecific and stereoselective preparation of vinyl zirconocene*. (then, PhD thesis).
- Irena Zouev** (2003). *New Synthesis of Polysubstituted allenes. New developments in organozirconium chemistry* (then, PhD thesis with Prof. Menachem Kaftory. Currently laboratory assistant, teaching organic laboratories, Schulich Faculty of Chemistry).
- Adi Abramovitch** (2004). *Zinc homologation of sp^3 organometallic π to sulfoxide. A new synthesis of olefins* (then, PhD thesis).
- Rozalia Unger** (2005). *New tandem reaction for the construction of carbocycles* (then, PhD thesis).
- Anat Levin** (2005). *Stereoselective preparation of metalated enynes and allylzirconium species* (then PhD thesis).
- Alexander Shterenberg** (2006). *Construction of new ligands for peripheral-type benzodiazepine receptors (PBR)* (then, PhD thesis).
- Einav Tsoglin** (2008). *Construction of new TSPO ligands with anti cancer or neuroprotective effects and diastereoselective synthesis of cyclobutylzirconocene derivatives* (Present position: Taro R&D, Israel).
- Ahmad Masarwa** (2008). *Towards the enantioselective preparation of chiral alkylidenecyclopropanes* (then, PhD thesis).
- Liat Frid** (2009). *Various approaches towards the creation of stereodefined all-carbon quaternary stereocenters* (PhD thesis at Tel Aviv University)
- Tamara Zabrodski** (2011). *C-H Allylic activation followed by stereoselective ring opening of π -ene cyclopropanes* (PhD thesis at Technion-Israel Institute of Technology)
- Biana Zelis** (2012). *Stereoselectivity in allylation reactions* (then PhD thesis)
- Elvira Haimov** (2012). *Metalation-Carbamoyl transfer-aldol-Tishchenko reactions as a new route to stereodefined polyhydroxylated fragments* (then PhD thesis)
- Liron Oskar** (2015). *Merging Allylic Carbon-Hydrogen and Carbon-Carbon Bond Activation En Route to Sophisticated Molecular Fragments*
- Maya Preshel** (2016). *Formation of Carbon Quaternary Stereogenic Center in Acyclic Systems via a Sequence of Carbometalation Followed by Intramolecular Cyclization and Silicon Activation.*
- Tiran Berkovitz** (2017). *All-Carbon Quaternary Stereogenic Centers in Acyclic Systems through Stereoselective Formation of Trisubstituted Ketone Enolates.*
- Lina Judkele** (2017). *Remote Functionalization of ω -ene unsaturated ethers as a new entry to vinyl metal species*

Tal Weissbrod (2024). *Carbometallation of 1-Halocyclopropenes*

Completed PhD thesis (* now faculty member)

Christophe Meyer* (1994; co-supervisor Jean. F Normant). *Intramolecular carbometallation of functionalized organozinc species* (Researcher CNRS, France).

Dov Beruben (1994; co-supervisor Jean. F Normant). *Diastereoselective carbometallation of vinylmetals. Application to the synthesis of metalated cyclopropanes* (Bromine R&D company, Israel).

Sophie Klein (1995; co-supervisor Jean. F Normant). *Diastereo- and enantioselective carbolithiation of heterosubstituted alkenes. Study of the configurational stability of organometallic species* (Sanofi, France).

Gilles Courtemanche (1995 co-supervisor Jean. F Normant). *Zn-ene-Allene cyclization* (Sanofi, France)

Isabelle Creton (1996; co-supervisor Jean. F Normant). *New synthesis of polysubstituted alkenes. Study of the Fritsch-Buttenberg-Wiechell rearrangement* (L'oreal, France).

Benoit Folleas (1997; co-supervisor Jean. F Normant). *Deprotonation of fluoroform. Formation and reactivity of trifluoromethyl metal species* (Diverchim, France).

Denis Brasseur (1998; co-supervisor Jean. F Normant). *Diastereoselective carbometallation of metalated alkenes* (Sanofi-Aventis, France).

Hadi Rezaei (2000; co-supervisor Jean. F Normant). *Fritsch-Buttenberg Rearrangement* (Director of a chemical company, Montreal, Canada)

Stephanie Norsikian* (1999; co-supervisor Jean. F Normant). *Enantioselective carbolithiation of alkenes* (Researcher CNRS, France).

Jean-Francois Poisson* (1999 ; co-supervisor Jean. F Normant). *Enantioselective carbolithiation of alkenes* (Professor University Grenoble, France).

Edwige Lorthiois (1999; co-supervisor Jean. F Normant). *Zn-ene-allene and reactions* (Novartis, Switzerland)

Elinor Zohar (2004). *Synthesis and Reactivity of cyclopropenes species* (Taro R&D, Israel).

Danielle Banon-Tenne (2004). *Diastereoselective intramolecular carbometallation reaction for the synthesis of five-membered rings* (Teva Pharmaceutical, Israel).

Nicka Chinkov (2005). *Stereoselective synthesis of metallated dienyl derivatives* (Faculty member, University of Haifa, Israel and then Taro Chemicals).

- Genia Sklute*** (2007). *Development of allylation reactions for the asymmetric construction of quaternary stereocenters* (Faculty member, West Virginia State University, USA).
- Helena Chechik** (2007). *Multicomponent condensation reactions as an efficient route to aldol products* (Kodak, Israel)
- Adi Abramovitch** (2008). *Convergent preparation of chiral polysubstituted cyclopropanes* (Taro R&D, Israel).
- Anat Levin** (2009). *Carbometalation reaction; an efficient tool in organic synthesis* (Center for Biological Research, Israel).
- Rozalia Unger** (2010). *Zn-Brook rearrangement in carbocyclization reaction* (KB recycling Industries, Israel).
- Alexander Shterenberg** (2010). *Stereoselective synthesis of polyketide fragments via sequential one-pot reaction* (TEVA pharmaceutical, Israel and now Aroma, Israel).
- Noga Gilboa** (2012) *New and efficient preparation of homoallylic alcohols containing several contiguous stereogenic centers in acyclic systems* (UBQ, Israel)
- Tom Mejuch** (2012). *Efficient methods for alkoxyallylation of carbonyl groups* (BASF, Germany)
- Ahmad Masarwa*** (2013). *Zirconocene-Mediated Ring-Opening of Alkylidenecyclopropane Derivatives: Preparation of Acyclic Quaternary Stereogenic Centers* (Faculty member at the Hebrew University of Jerusalem)
- Yury Minko** (2014). *Quaternary Stereocenters in Acyclic Systems: from Alkynes via Stereodefined Trisubstituted Enolates* (Researcher at Los Alamos national Laboratory, Colorado).
- Polina Smirnov** (2015). *Stereoselective Synthesis via a Zn-Brook Rearrangement Followed by an Ene-Allene Carbocyclization Reaction*. (Associate editor *Angew. Chemie. Int. Ed*, Germany and now group leader at BASF, Germany)
- Elvira Haimov** (2016). *Stereoselective Formation and Reactivity of Fully Substituted Ketone Enolates* (Working at TEVA)
- Jeffrey Bruffaerts** (2018). *Remote Functionalization of Alkenes By Merging C-H Bond Activation and Selective C-C Bond Cleavage* (head research at UCB, London)
- Marwan Simaan** (2018). *Carbometalation/Oxidation/Ring Opening Sequence as a New Tool for The Synthesis of Aldehydes Bearing Quaternary Stereogenic Center* (group leader at Aroma, Israel)
- Peter-Yong Wang** (2020). *Preparation and Reactivity of Stereodefined Fully Substituted Acyclic Enolate of Ketones and Aldehydes*

Yair Cohen (2022) *Regio- and Diastereoselective Carbometalation of Polysubstituted Cyclopropenes* (group leader at Aroma, Israel)

Itai Massad (2023) *Alkene Isomerization as a Strategic Tool in Stereoselective Synthesis* (Post-doctoral fellow at Cambridge, UK)

Antony Cohen (2024) *Remote Functionalization of Stereodefined Substituted Cyclopropanes toward Synthetically Useful Acyclic Fragments* (group leader at Aroma, Israel)

Completed Post-doctoral (* now faculty member)

Dr. Charlotte Teschlers (Germany)*

Dr. Maximilian Scherubl (Germany)

Dr. Andre Augustin (Germany)

Dr. Lia Funt (Russia)

Dr. Xu Chen (China)

Dr. Tereza Pavlickova (Czech Republic)

Dr. Aurelien de la Torre (France)*

Dr. Morgan Cormier (France)*

Dr. Guillaume Duret (France)

Dr. Veeranjanyulu Lanke (India)*

Dr. Heiko Sommer (Germany)

Dr. David Pierrot (France)

Dr. Guo-Ming Ho (Taiwan)*

Dr. Claudia Averbuj (Israel)

Dr. Annie Liard (France)*

Dr. Camille Oger (France)*

Dr. Arindam Chakraborty (India)

Dr. Philippe Bertus (France)*

Dr. Deborah Amsallem (France)

Dr. Swapan Majumdar (India)*

Dr. Natalia Vais-Morlender (Israel)

Dr. Jos Varghese (India)

Dr. Jaya Prakash Das (India)*

Dr. Samah Simaan (Israel)

Dr. Bushnu Dutta (India)

Dr. Ahmad Basheer (Israel)
Dr. Dorian Didier (France)*
Dr. Guillaume Eppe (Belgium)
Dr. Roxanne Vabre (France)
Dr. Hendrik Eijsberg (France)
Dr. Pavel Starkov (Estonia)*
De. Daniel Muller (France)*
Dr. Nicolas Germain (France)
Dr. Sukhdev Singh (India)
Dr. Gunda G.K.S.N. Kumar (India)
Dr. Jian-Qiang Huang (China)*
Dr. Juliette Sabbatani (France)
Dr. Markus Leibelling (Germany)
Dr. Alexandre Vasseur (France)*
Dr. Veronika Werner (Germany)
Dr. Zackaria Nairoukh (Israel)*
Dr. Coralie Tugny (France)
Dr. Sudipto Raha Roy (India)
Dr. Pierre-Olivier Delaye (France)*
Dr. Morgane Pasco (France)*
Dr. Fa-Guang Zhang (China)*
Dr. Yogesh Siddaraju (India)
Dr. Yuanfei Zhang (China)*
Dr. Longyang Dian (China)*
Dr. Khriesto A. Shurrush (USA)

Full List of Publications

- 282) Copper-Catalyzed Carbomagnesiation of 1-Halocyclopropenes
Tal Weissbrod, Alin Asraf, Ilan Marek
Org. Lett. (2024), 26, 9138-9141
- 281) Stereoinvertive S_N1 Through Neighboring Group Participation
Rahul Suresh, Noam Orbach, Ilan Marek
Angew. Chem. Int. Ed. (2024), 63, e202407602
- 280) Synthesis of Stereodefined Polysubstituted Bicyclo[1.1.0]butanes
Rahul Suresh, Noam Orbach, Ilan Marek
J. Am. Chem. Soc. (2024), 146, 13748-13753
- 279) Stereoselective Nucleophilic Halogenation at CF_3 -Substituted NonClassical Carbocation
Veronika Myronova, Dominique Cahard, Ilan Marek
Org. Lett. (2024), 26, 3657-3660
- 278) Highly Diastereoselective Preparation of Tertiary Alkyl Thiocyanates en Route to Thiols by Stereoinvertive Nucleophilic Substitution at Non-Classical Carbocation
Patel, Kaushalendra; Oginetz, Lior; Marek, Ilan
Org. Lett. (2023), 25, 8474-8477
- 277) Oxenoids as Homologation Partners
Longyang Dian and Ilan Marek
In *Homologation Reactions*, Ed. Vittorio Pace, Wiley-VCH Weinheim, 2023, 287-308
- 276) Selective Terminal Functionalization of Linear Alkanes
Jeffrey Bruffaerts, Inbar Kesten, Keren Buhnik-Rosenblau, Anthony Cohen, Nurit Edri, Morgan Cormier, Yuanfei Zhang, Guo-Ming Ho, Itai Massad, Hila Halfon-Verner, Yechezkel Kashi, Ilan Marek
Angew. Chem. Int. Ed. (2023), 62, e202306343
- 275) Tetrazole Diversification of Amino Acids and Peptides via Silver-Catalyzed Intermolecular Cycloaddition with Aryldiazonium Salts
Xuan-Yu Liu, Yi-Lin Yang, Yanfeng Dang, Ilan Marek, Fa-Guang Zhang and Jun-An Ma
Angew. Chem. Int. Ed. (2023), 62, e202304740
- 274) Dirhodium(II)-catalyzed enantioselective cyclopropenation of internal alkynes with trifluoromethyl carbene
Xiu-Qing Cui, Meng-Meng Zheng, Xiaodong Tang, Zhi-Qi Zhang, Xiao-Song Xue, Ilan Marek, Jun-An Ma, and Fa-Guang Zhang
Chem Catalysis (2023), 3, 100637
- 273) Highly Diastereoselective Preparation of Tertiary Alkyl Isonitriles by Stereoinvertive Nucleophilic Substitution at a Nonclassical Carbocation
Xu Chen and Ilan Marek
Org. Lett. (2023), 25, 2285-2288
- 272) Stereoselective Construction of Tertiary Homoallyl Alcohols and Ethers by Nucleophilic Substitution at Quaternary Carbon Stereocenter
Xu Chen, Kaushalendra Patel and Ilan Marek
Angew. Chem. Int. Ed. (2023), 61, e202212425

- 271) Stereospecific Nucleophilic Substitution at Quaternary Carbon Stereocenters
Xu Chen, Kaushalendra Patel and Ilan Marek
Chem (2023), 9, 266-279
- 270) Stereoselective Preparation of CF₃-Containing Cyclopropanes
Veronika Myronova, Dominique Cahard and Ilan Marek
Org. Lett. (2022), 24, 9076-9080
- 269) Synthesis and Functionalization of Tertiary Propargylic Boronic Esters by Alkynyllithium-Mediated 1,2-Metalate Rearrangement of Borylated Cyclopropanes
Tereza Pavlíčková, Yannick Stöckl and Ilan Marek
Org. Lett. (2022), 24, 8901-8906
- 268) Directed Diastereoselective Cyclopropanation and Epoxidation of Alkenyl Cyclopropyl Carbinols Derivatives
Anthony Cohen, Yogesh Siddaraju, Ilan Marek
Org. Lett. (2022), 24, 8322-8325
- 267) Stereoselective Synthesis of Polysubstituted Spiropentanes
Yair Cohen, Dor Toledano, Ilan Marek
J. Am. Chem. Soc. (2022), 144, 16732-16736
- 266) Borylated Cyclopropanes as Spring-Loaded Entities: Access to Vicinal Tertiary and Quaternary Stereocenters in Acyclic Systems
Andre U. Augustin, Sergio Di Silvio, Ilan Marek
J. Am. Chem. Soc. (2022), 144, 16298-16302
- 265) Regio- and Diastereoselective Carbometalation Reaction of Cyclopropenes
Yair Cohen, Ilan Marek
Acc. Chem. Res. (2022), 55, 2848-2868
- 264) Preparation of Distant Quaternary Carbon Stereocenters by Double Selective Ring-Opening of 1,1-Biscyclopropyl Methanol Derivatives
Yogesh Siddaraju, Juliette Sabbatani, Anthony Cohen and Ilan Marek
Angew. Chem. Int. Ed. (2022), 61, e202203652
- 263) Stereoinvertive Nucleophilic Substitution at Quaternary Carbon Stereocenters of Cyclopropyl Ketones and Ethers
Xu Chen and Ilan Marek
Angew. Chem. Int. Ed. (2022), 61, e202203673
- 262) Stereospecific Construction of Quaternary Carbon Stereocenters from Quaternary Carbon Stereocenters
Kaushalendra Patel, Veeranjanyulu Lanke, and Ilan Marek
J. Am. Chem. Soc. (2022), 144, 7066-7071
- 261) Mechanistic Insights on the Selectivity of the Tandem Heck-Ring-Opening of Cyclopropylidol Derivatives
Anthony Cohen, Alexander Kaushansky and Ilan Marek
J. Am. Chem. Soc. ^{Au} (2022), 2, 687-696
- 260) Stereoselective Synthesis Through Remote Functionalization
Itai Massad, Rahul Suresh, Lucas Segura, Ilan Marek
Nature Synthesis, (2022), 1, 37-48

- 259) Stereodivergent Access to Trisubstituted Alkenylboronate Esters Through Alkene Isomerization
Lucas Segura, Itai Massad, Masamichi Ogasawara, Ilan Marek
Org. Lett. (2021), 23, 9194-9198
- 258) Directed Regioselective Carbometallation of 1,2-Dialkyl-Substituted Cyclopropenes
Yair Cohen, Ilan Marek
Angew. Chem. Int. Ed. (2021), 60, 26368-26372
- 257) Alkene Isomerization Revitalizes the Coates-Claisen Rearrangement
Itai Massad, Ilan Marek
Angew. Chem. Int. Ed. (2021), 60, 18509-18513
- 256) Stereoselective Tandem Iridium-Catalyzed Alkene Isomerization-Cope Rearrangement of α -Diene Epoxides: Efficient Access to Acyclic 1,6-Dicarbonyl Compounds.
Rahul Suresh, Itai Massad, Ilan Marek
Chem. Sci. (2021), 12, 9328-9332
- 255) Regio- and Diastereoselective Copper-Catalyzed Carbomagnesiation of Persubstituted Cyclopropenes
Yair Cohen, Andre U. Augustin, Laura Levy, Peter G. Jones, Daniel B. Wertz, and Ilan Marek
Angew. Chem. Int. Ed. (2021), 60, 11804-11808
- 254) Stereospecific SC(OTf)₃-Catalyzed Aldol Reactions of Persubstituted Silyl Enol Ethers with Acetals
Peter-Yong Wang, Itai Massad, Ilan Marek
Angew. Chem. Int. Ed. (2021), 60, 12765-12769
- 253) Carbon-carbon Bond Cleavage in Stereoselective Synthesis
Ilan Marek (Editorial)
Chem. Rev. (2021), 121, 1
- 252) Creating Stereocenters Within Acyclic Systems by C-C Bond Cleavage of Cyclopropanes
Yair Cohen, Anthony Cohen and Ilan Marek
Chem. Rev. (2021), 121, 140-161
- 251) Stereospecific Access to Allylboronic Esters Within Acyclic Systems Bearing Distant Tetrasubstituted Stereocenters
David Pierrot and Ilan Marek
Angew. Chem. Int. Ed. (2020), 59, 20434-20438
- 250) Remote Fluorination and Fluoroalkyl(thiol)ation Reactions
Fa-Guang Zhang, Xue-Qi Wang, Yin Zhou, Hong-Song Shi, Zhe Feng, Jun-An Ma and Ilan Marek
Chem. Eur. J. (2020), 26, 15378-15396
- 249) Stereospecific Nucleophilic Substitution at Tertiary and Quaternary Stereocentres
Veeranjaneyulu Lanke and Ilan Marek
Chem. Sci. (2020), 11, 9378 – 9385
- 248) The Schulich Faculty of Chemistry, Technion –Israel Institute of Technology
I. Marek, Y. Apeloig
Eur. J. Org. Chem (Editorial for Special Issue Schulich Faculty of Chemistry), (2020), 3116-3119
- 247) The protective effect of the TSPO ligands 2,4-Di-CI-MGV-1, CB86, and 1 CB204 against LPS-induced M1 pro-inflammatory activation of microglia

Sheelu Monga, Nunzio Denora, Valentino Laquintana, Massimo Franco, Ilan Marek, Sukhdev Singh, Rafi Nagler, Abraham Weizman and Moshe Gavish
Brain, Behavior, & Immunity – Health, (2020), 5, 100083

- 246) Ru-Catalyzed Isomerization of α -Alkenylboronates towards Stereoselective Synthesis of Multifunctional Vinylboronates
Guo-Ming Ho, Lucas Segura and Ilan Marek
Chem. Sci. (2020), 11, 5944-5949
- 245) Cobalt-Catalyzed Diastereo- and Enantioselective Hydrosilylation of Achiral Cyclopropenes
Longyang Dian and Ilan Marek
Org. Lett. (2020), 22, 4914-4918
- 244) Stereoselective Preparation of Distant Stereocenters (1,5) Within Acyclic Molecules
Anthony Cohen, Jean Chagneau and Ilan Marek
ACS Catalysis (2020), 10, 7154-7161
- 243) Stereoselective Access to Fully Substituted Aldehyde Silyl Enol Ethers by Iridium-Catalyzed Alkene Isomerization
Itai Massad, Heiko Sommer, and Ilan Marek
Angew. Chem. Int. Ed. (2020), 59, 15549 – 15553
- 242) Nucleophilic Substitution at Quaternary Carbon Stereocenters
Veeranjaneyulu Lanke and Ilan Marek
J. Am. Chem. Soc. (2020), 142, 5543 – 5548
Corrections *J. Am. Chem. Soc.* (2020), 142, 7710 – 7712
- 241) Alkene Isomerization Through Allylmetals as a Strategic Tool in Stereoselective Synthesis
Itai Massad and Ilan Marek
ACS Catalysis, (2020), 10, 5793-5804
- 240) Stereodivergent Construction of Acyclic Vicinal Tertiary and Quaternary Carbon Stereocenters via a Pd-Catalyzed Allylic Alkylation of Stereodefined Polysubstituted Ketene Aminals
Jian-Qiang Huang and Ilan Marek
Eur. J. Org. Chem (Special Issue Schulich Faculty of Chemistry), (2020), 3133-3137
- 239) Pd-Catalyzed Enantioselective Hydroalkylation of Cyclopropenes
Longyang Dian and Ilan Marek
ACS Catalysis, (2020), 10, 1289-1293
- 238) Enantioselective Synthesis of Vicinal Tertiary and Quaternary Carbon Stereogenic Centers Within An Acyclic Chain
David Pierrot and Ilan Marek
Angew. Chem. Int. Ed. (2020), 59, 36-49
- 237) Catalytic Enantioselective Cyclopropanation of Internal Alkynes: Access to Difluoromethylated Three-Membered Carbocycles
Zhi-Qi Zhang, Meng-Meng Zheng, Xiao-Song Xue, Ilan Marek, Fa-Guang Zhang, Jun-An Ma
Angew. Chem. Int. Ed. (2019), 58, 18191-18196
- 236) Regio- and Diastereoselective Copper-Catalyzed Carbomagnesiation of Cyclopropenylsilanes
Yair Cohen and Ilan Marek
Org. Lett. (2019), 21, 9162-9165

- 235) Diastereoselective Ring Opening of Fully-Substituted Cyclopropanes *via* Intramolecular Friedel–Crafts Alkylation
Veerujaneyulu Lanke, Fa-Guang Zhang, Alexander Kaushansky and Ilan Marek
Chem. Science (2019), 10, 9548-9554
- 234) Regio- and Stereoselective Synthesis of Fully Substituted Silyl Enol Ethers of Ketones and Aldehydes in Acyclic Systems.
Peter-Yong Wang, Guillaume Duret and Ilan Marek
Angew. Chem. Int. Ed. (2019), 58, 14995-14999
- 233) Highly *E*-selective, Stereoconvergent Nickel-Catalyzed Suzuki-Miyaura Cross-Coupling of Alkenyl Ethers
Guo-Ming Ho, Heiko Sommer, Ilan Marek
Org. Lett (2019), 21, 2913-2917
- 232) A Tandem Iridium-catalyzed ‘Chain-walking’/Cope Rearrangement Sequence
Heiko Sommer, Tal Weissbrod and Ilan Marek
ACS Catalysis, (2019), 9, 2400-2406
- 231) Diastereo- and Enantioselective Preparation of Cyclopropanol and Cyclopropylamine Derivatives
Marwan Simaan, Ilan Marek
Beilstein Journal of Organic Chemistry, (2019), 15, 752-760
- 230) Versatility in the Brook Rearrangement for Selective Ring-Opening of Three-Membered Rings
Coralie Tugny, Fa-Guang Zhang, Ilan Marek
Chem. Eur. J. (2019), 25, 205-209
- 229) Convergent and Flexible Approach to Stereodefined Polyhydroxylated Fragments
Alexander Shterenberg, Elvira Haimov, Polina Smirnov and Ilan Marek
Tetrahedron (special issue for Prof. Leon Ghosez), (2018), 74, 6761-6768
- 228) Diastereoselective Ring Opening of Alkenylcyclopropanes: Application to the Total Synthesis of C30 Botryococcene and *epi*-Botryococcene
Morgan Cormier, Aurelien de la Torre, Ilan Marek
Angew. Chem. Int. Ed. (2018), 58, 13237-13241
- 227) Efficient and Stereodivergent Synthesis of Unsaturated Acyclic Fragments Bearing Contiguous Stereogenic Elements
Jeffrey Bruffaerts, David Pierrot, Ilan Marek
Nature Chemistry, (2018), 10, 1164-1170
- 226) Asymmetric Preparation of Polysubstituted Cyclopropanes Based on Direct Functionalization of Achiral Three-Membered Carbocycles
Longyang Dian, Ilan Marek
Chemical Reviews (Focus) (2018), 118, 8415-8434
- 225) Diastereo- and Enantioselective Copper Catalyzed Hydroallylation of Disubstituted Cyclopropenes
Heiko Sommer, Ilan Marek
Chemical Science (2018), 9, 6503-6508
- 224) Pd-Catalyzed Selective Remote Ring-Opening of Polysubstituted Cyclopropanols
Sukhbev Singh, Marwan Simaan, Ilan Marek
Chem. Eur. J. (2018), 24, 8553-8557

- 223) Metal-Catalyzed Remote Functionalization of α -Ene Unsaturated Ethers as a New Entry to Functionalized Vinyl Species
Guo-Ming Ho, Lina Jiudkele, Jeffrey Bruffaerts, Ilan Marek
Angew. Chem. Int. Ed. (2018), 57, 57, 8012-8016
- 222) Asymmetric Rh-Catalyzed Arylation of Cyclopropenes Based on Directed Functionalization of Three-Membered Carbocycles (DFTMC)
Longyang Dian, Ilan Marek
Angew. Chem. Int. Ed. (2018), 57, 3682-3686
- 221) Walking Metals for Remote Functionalization
Heiko Sommer, Francisco Julia-Hernandez, Ruben Martin, Ilan Marek
ACS Central Science (2018), 4, 153-165
- 220) Rosarium Philosophorum on Organic Synthesis
Ilan Marek
Isr. J. Chem. (2018), 58, 122-126
- 219) Alkene-Zipper Catalyzed Selective and Remote Retro-Ene Reaction of Alkenyl Cyclopropylcarbinols
Jeffrey Bruffaerts, Alexandre Vasseur Ilan Marek
Adv. Synth. Catal. (2018), 360, 1389-1396
- 218) Electrophilic Oxidation of Stereodefined Polysubstituted Silyl Ketene Aminals
Jian Qiang Huang, Zackaria Nairoukh and Ilan Marek
Eur. J. Org. Chem. (2018), 614-618
- 217) Electrophilic Fluorination of Stereodefined Polysubstituted Silyl Ketene Hemiaminals *en route* to Tertiary α -Fluorinated Carbonyl Derivatives
Jian Qiang Huang, Zackaria Nairoukh and Ilan Marek
Org. Biomol. Chem. (2018), 16, 1079-1082
- 216) Asymmetric Catalytic Preparation of Diastereo- and Enantiomerically Enriched Polysubstituted Cyclopropanol and Cyclopropylamine Derivatives
Marwan Simaan, Ilan Marek
Angew. Chem. Int. Ed. (2018), 57, 1543-1546
- 215) Zirconocene-Mediated Selective and Versatile C-C Bond Cleavage of Strained Carbocycles: Scope and Mechanism
Jeffrey Bruffaerts, Alexandre Vasseur, Sukhdev Singh, Ahmad Masarwa, Dorian Didier, Liron Oskar, Lionel Perrin, Odile Eisenstein, Ilan Marek
J. Org. Chem. (2018), 83, 3947-3515
- 214) 2-Cl-MGV-1 ameliorates apoptosis in the thalamus and hippocampus and cognitive deficits after cortical infarct in rats
Yicong Chen, Leo Veenman, Sukhdev Singh, Fubing Ouyang, Jiahui Liang, Weixian Huang, Ilan Marek, Jinsheng Zeng, and Moshe Gavish
Stroke (2017), 48, 3366-3364
- 213) Tandem Hydroalumination/Cu-Catalyzed Asymmetric Vinyl Metalation as a New Access to Enantioenriched Vinylcyclopropane Derivatives.
Daniel S. Müller, Veronika Werner, S. Akyol, Hans-Günther Schmalz and Ilan Marek
Org. Lett. (2017), 19, 3970-3973

- 212) Enantioselective Construction of Acyclic Quaternary Stereocenters: Palladium-Catalyzed Decarboxylative Allylic Alkylation of Fully Substituted Amide Enolates.
Pavel Starkov, Jared T. Moore, Douglas C. Duquette, Brian M. Stoltz, Ilan Marek
J. Am. Chem. Soc. (2017), 139, 9615-9620
- 211) Classical and novel TSPO ligands for the mitochondrial TSPO can modulate nuclear gene expression: Implications for mitochondrial retrograde signaling.
N. Yassin, L. Veeman, S. Singh, M. Azrad, J. Bode, A. Vainshtein, B. Caballero, I. Marek, M. Gavish.
International Journal of Molecular Sciences, (2017), 18, 786
- 210) Brook Rearrangement as a Trigger for the Formation of Carbene: Formation of Stereodefined Fully-Substituted Cyclobutene Derivatives.
Fa-Guang Zhang, Ilan Marek
J. Am. Chem. Soc. (2017), 139, 8364-8370
- 209) Merging C-H and C-C Bonds Cleavage in Organic Synthesis
Zackaria Nairoukh, Morgane Cormier, Ilan Marek
Nature Rev. Chem. (2017), 1, 0035
- 208) Asymmetric Copper-Catalyzed Carbomagnesiation of Cyclopropenes.
Longyang Dian, Daniel S. Müller, I. Marek
Angew. Chem. Int. Ed. (2017), 56, 6783-6787
- 207) Palladium-Catalyzed Oxidative Cyclization of Aniline-Tethered Alkylidenecyclopropanes with O₂; A Facile Protocol to Selectively Synthesize 2- and 3-Vinylindoles.
Bo Cao, Marwan Simaan, Ilan Marek, Yin Wei and Min Shi
Chemical Communications (2017), 53, 216-219
- 206) A Unique Pd-Catalyzed Heck Arylation as a Remote Trigger for Cyclopropane Selective Ring-Opening
Sukhdev Singh, Jeffrey Bruffaerts, Alexandre Vasseur and Ilan Marek
Nature Communications (2017), 8, 14200
- 205) Enantioselective allylic alkylation of stereodefined polysubstituted copper enolates as an entry to acyclic quaternary carbon stereocentre
Zackaria Nairoukh, Gunda GKS Narayana Kumar, Yury Minko and Ilan Marek
Chemical Science (2017), 8, 627-630
- 204) Diastereoselective Carbometalation of Cyclobutenes
Sudipto Raha Roy, Hendrik Eijsberg, Jeffrey Bruffaerts, Ilan Marek
Chemical Science (2017), 8, 334-339
- 203) Zirconocene-assisted remote cleavage of C-C and C-O bonds: application to acyclic stereodefined metalated hydrocarbons
Jeffrey Bruffaerts, David Pierrot and I. Marek
Organic and Biomolecular Chemistry, (2016), 14, 10325-10330
- 202) Formation of Carbon Quaternary Stereogenic Center in Acyclic Systems *via* a Sequence of Carbometalation – Intramolecular Cyclization – Silicon Activation
Maya Preshel-Zlatsin, Fa-Guang Zhang, Guillaume Eppe, Ilan Marek
Synthesis (2016), 48, 3279-3286
- 201) Oxidation of bis-Sulfinyl Carbanion as the Pivot of Ionic/Radical Tandem Reactions

Guillaume Vincent, Saloua Chelli, Rocio Martinez Mallorquin, Adi Abramovitch, Sophie Beauvière, Catherine Gomez, Franck Brebion, Ilan Marek, Max Malacria, Jean Philippe Goddard and Louis Fensterbank

Compte Rendu Academie des Sciences (2016), 19, 403-411

- 200) Preparation and Reactivity of Acyclic Chiral Allylzinc Species via a Zn-Brook Rearrangement
Markus Leibelling, Khriesto A. Shurrush, Veronika Werner, Lionel Perrin, Ilan Marek
Angew. Chem. Int. Ed. (2016), 55, 6057-6061
- 199) Diastereodivergent Combined Carbometalation – Zinc Homologation – C-C Fragmentation Reaction as an Efficient Tool to Prepare Acyclic Allylic Quaternary Carbon Stereocenters
Sudipta Raha Roy, Dorian Didier, Amir Kleiner and Ilan Marek
Chemical Science (2016), 7, 5989-5994
- 198) Brook Rearrangement as a Trigger for Ring-Opening strained Carbocycles
Fa-Guang Zhang, Guillaume Eppe and Ilan Marek
Angew. Chem. Int. Ed. (2016), 55, 714-718
- 197) Stereoselective Formation of Trisubstituted Ketone Enolates
Elvira Haimov, Zackaria Nairoukh, Alexandre Shterenberg, Tiran Berkowitch, Timothy F. Jamison, Ilan Marek
Angew. Chem. Int. Ed. (2016), 55, 5517-5520
- 196) Remote Functionalization
Alexandre Vasseur, Jeffrey Bruffaerts, Ilan Marek
Nature Chem. (2016) 8, 209-219
- 195) Copper mediated carbometalation reactions
D. S. Müller and I. Marek,
Chem. Soc. Rev. (2016), 45, 4552-4566
- 194) Merging allylic C-H bond activation and C-C bond cleavage en route to the formation of quaternary carbon stereocenter in acyclic systems
Alexandre Vasseur and Ilan Marek
Nature Protocols (2016), 12, 74-87
- 193) Asymmetric Copper-Catalyzed Carbozincation of Cyclopropenes *en route* to the Formation of Diastereo- and Enantiomerically Enriched Polysubstituted Cyclopropanes
Daniel S. Müller and Ilan Marek
J. Am. Chem. Soc. (2015), 137, 15414-15417
- 192) Carbozincation of alkynes and alkenes
Genia Skulte, Hannah Cavender and Ilan Marek
Org. React. (2015) 87, 507-763.
- 191) The Scientific Bridge: Fifty Years of Germany-Israel Diplomatic Relations
Helmut Schwarz, Itamar Willner and Ilan Marek
Angew. Chem. Int. Ed. (2015), 51, 12182-12183
- 190) Quinazoline-based tricyclic compounds that regulate programmed cell death, induce neuronal differentiation, and are curative in animal models for excitotoxicity and hereditary brain disease
A. Vainshtein, L. Veenman, A. Shterenberg, S. Singh, A. Masarwa, B. Dutta, B. Island, E. Tsoglin, E. Levin, S. Leschiner, I. Maniv, L. Pe'er, I. Otradnov, S. Zubedat, S. Mizrachi, A. Weizman, A. Avital, I. Marek, M. Gavish
Cell Death Discovery, (2015), 1, 15027

- 189) Stereodefined Acyclic Trisubstituted Silyl Enol Ethers Towards the Asymmetric Formation of Aldol Products Possessing Quaternary Carbon Stereocenters
Zackaria Nairoukh and Ilan Marek
Angew. Chem. Int. Ed. (2015), 54, 14933-14937
- 188) Gold(I)-Catalyzed Cycloisomerization of Vinylidenecyclopropane-enes via Carbene or non-Carbene Processes
De-Yao Li, Yin Wei, Ilan Marek, Xiang-Ying Tang, Min Shi
Chemical Science (2015), 6, 5519-5525
- 187) Forming Stereogenic Centers in Acyclic Systems from Alkynes
Roxane Vabre, Biana Island, Claudia J. Diehl, Peter R. Schreiner, Ilan Marek
Angew. Chem. Int. Ed. (2015) 54, 9996-999
- 186) Probing the Limits of NMR and VCD Spectroscopies in the Stereochemical Assignment of Chiral $^2\text{H}_6$ -Neopentane
Ahmad Masarwa, Dennis Gerbig, Liron Oskar, Aharon Loewenstein, Hans Peter Reisenauer, Philippe Lesot, Peter R. Schreiner, Ilan Marek
Angew. Chem. Int. Ed. (2015) 54, 13106-13109
- 185) Formation of Several Carbon-Carbon Bonds in Acyclic Systems
Guillaume Eppe, Dorian Didier and Ilan Marek
Chemical Reviews, (2015), 105, 9175-9206
- 184) Cyclopropene Derivatives as a New Entry to Enantioenriched Cyclopropanol and n-Butenal Possessing Quaternary Carbon Stereocenters
Marwan Simaan, Pierre-Olivier Delaye, Min Shi and Ilan Marek
Angew. Chem. Int. Ed. (2015), 54, 12345-12348
- 183) Remote Functionalization of Hydrocarbons with Reversibility Enhanced Stereocontrol
Alexandre Vasseur, Lionel Perrin, Odile Eisenstein, Ilan Marek
Chemical Sciences (2015), 6, 2770-2776
- 182) Gold and Silver-Catalyzed Intramolecular Cyclizations of Indolylcyclopropenes for the Divergent Synthesis of Azepinoindoles and Spiroindoline Piperidines
Peng-Long Zhu, Zhen Zhang, Xiang-Yiang Tang, Ilan Marek, Min Shi
ChemCatChem (2015), 7, 595-600
- 181) Selective Carbon-Carbon Bond Cleavage for the Stereoselective Synthesis of Acyclic Systems
Ilan Marek, Ahmad Masarwa, Pierre-Olivier Delaye, Markus Leibelng
Angew. Chem. Int. Ed. (2015), 54, 414-429
- 180) Electrophilic Amination: The Case of Nitrenoids
Pavel Starkov, Timothy F. Jamison, Ilan Marek
Chem. Eur. J (2015), 14, 5278-530
- 179) Formation of Three New Bonds and Two Stereocenters in Acyclic Systems by Zinc-Mediated Asymmetric Alkynylation of Acylsilanes, Brook Rearrangement and Ene-Allene Carbocyclization Reactions
Polina Smirnov, Einat Katan, Jomon Mathew, Arseni Kostenko, Miriam Karni, Anne Nijs, Carsten Bolm, Yitzhak Apeloig, Ilan Marek
J. Org. Chem. (special issue Mechanisms in Metal-Based Organic Chemistry), (2014), 79, 12122-12135.

- 178) Stereodefined Acyclic Trisubstituted Metal Enolates Towards the Asymmetric Formation of Quaternary Carbon Stereocentres
Yury Minko, Ilan Marek
Chem. Comm. (2014), 50, 12597- 12611
- 177) Isoxazole-Embedded Allylic Zinc Reagent for the Diastereoselective Preparation of Highly Functionalized Aldol-Type derivatives Bearing a Stereocontrolled Quaternary Center
Lydia Klier, Coura R. Diene, Manuel Schikinger, Albrecht Metzger, Andrea J. Wagner, Konstantin Karaghiosoff, Ilan Marek and Paul Knochel
Chem.-Eur. J. (2014), 20, 20, 14096-14101
- 176) Chemistry in Israel—at a Crossroads? (Editorial)
Ilan Marek
Angew. Chem. Int. Ed. (2014), 53, 3754-3755
- 175) All-Carbon Quaternary Stereogenic Centers in Acyclic System through the Creation of Several C-C bonds per Chemical Steps
Ilan Marek, Yury Minko, Morgane Pasco, Tom Mejuch, Noga Gilboa, Helena Chechik, Jaya P. Das
J. Am. Chem. Soc. (2014), 136, 2682-2694
- 174) Highly Diastereoselective Preparation of Aldol Products Using New Functionalized Allylic Aluminum Reagents
Zhi-Liang Shen, Zhihua Peng, Chun-Ming Yang, Julian Helberg, Peter Mayer, Ilan Marek and Paul Knochel
Org. Lett. (2014), 16, 956-959
- 173) Oxenoids in Organic Synthesis
Yury Minko and Ilan Marek
Organic and Biomolecular Chemistry (2014), 12, 1535-1546
- 172) Advances in Carbolithiation
Yury Minko and Ilan Marek
In *Lithium Compounds in organic Synthesis: From Fundamentals to Applications, First Edition.*
Edited by Renzo Luisi and Vito Capriati. Wiley-VCH (2014), 329-350
- 171) Carbometalation Reactions
Dorian Didier, Ilan Marek
In *Copper-catalyzed Asymmetric Synthesis, First Edition.*
Edited by Alexandre Alexakis, Norbert Krause and S. Woodward. Wiley-VCH, (2014), 267-282
- 170) Merging Allylic C-H Activation and Selective C-C Bond Activation
Ahmad Masarwa, Dorian Didier, Tamar Zabrodsky, Marvin Schinkel, Lutz Ackermann and Ilan Marek
Nature (2014) 505, 199-203
- 169) Modulable and Highly Diastereoselective Carbometalations of Cyclopropenes
Dorian Didier, Pierre-Olivier Delaye, Marwan Simaan, Biana Island, Guillaume Eppe, Hendrik Eijsberg, Amir Kleiner, Paul Knochel, Ilan Marek
Chem. Eur. J. (2014), 20, 1038-1048
- 168) Carbometalation Reactions
Ilan Marek and Yury Minko
in *Metal-Catalyzed Cross-Coupling Reactions and More- First edition*
Eds de Meijere, A., Oestreich, M., Bräse, S. Wiley-VCH, (2014), 769-882.

- 167) A One-Pot Zinc-promoted Asymmetric Alkynylation/Brook-Type Rearrangement/Ene-Allene Cyclization: Highly Selective Formation of Three New bonds and two Stereocenters in Acyclic Systems
Polina Smirnov, Jomon Mathew, Anne Nijs, Einat Katan, Miriam Karni, Carsten Bolm, Yitzhak Apeloig, Ilan Marek
Angew. Chem. Int. Ed. (2013), 52, 13717-13721
- 166) Carboxylate-Assistance for Catalyzed Hydroarylations of Methylenecyclopropanes
Marvin Schinkel, Jan Wallbaum, Sergei I. Kozhushkov, Ilan Marek, Lutz Ackermann
Org. Lett. (2013), 15, 4482-4484
- 165) Stereodefined Trisubstituted Enolates as a Unique Entry to All-Carbon Quaternary Stereogenic Centres in Acyclic Systems
Yury Minko, Morgane Pasco, Lukas Lecher, Ilan Marek
Nature Protocols, (2013), 4, 749-754
- 164) Axial Preferences in Allylation Reactions via the Zimmerman – Traxler Transition State
Tom Mejuch, Noga Gilboa, Eric Gayon, Hao Wang, K. H. Houk, Ilan Marek
Acc. Chem. Res. (2013), 46, 1659-1669
- 163) Regio- and Stereoselective Carbometallation Reactions of *N*-Alkynyl-Amides and Sulfonamides
Yury Minko, Morgane Pasco Helena Chechik and Ilan Marek
Beilstein J. Org. Chem. (2013), 9, 526-532
- 162) The Renaissance of Zinc Carbenoid in Stereoselective Synthesis in Acyclic systems
Morgane Pasco, Noga Gilboa, Tom Mejuch, Ilan Marek
Organometallics, (2013), 32, 942-950
- 161) Carbon-Carbon Bond Activation en Route to the Formation of all-Carbon Quaternary Stereogenic Centers in Acyclic System
Pierre-Olivier Delaye, Dorian Didier, Ilan Marek
Angew. Chem. Int. Ed. (2013), 52, 5333-5337
- 160) Carboxylate-assisted Ruthenium(II)-Catalyzed C-H Arylation of 5-Aryl Tetrazoles: Step-Economical Access to Valsartan
Emelyne Diers, N. Y. Phani Kumar, Tom Mejuch, Ilan Marek, Lutz Ackermann
Tetrahedron, (2013), 69, 4445-4453
- 159) New Advances in Bis(sulfoxides) Chemistry
Sophie Beauvière, Franck Brebion, Saloua Chelli, Bénédicte Delouvrié, Catherine Gomez, Ophélie Kwasnieski, Rocio Martinez Mallorquin, Francisco Najera, Guillaume Vincent, Maxime R. Vitale, Etienne Derat, Ilan Marek, Max Malacria, Jean-Philippe Goddard, Louis Fensterbank
Phosphorus Silicon & Related, (2013), 188, 367-376
- 158) Carboxylate-Assisted Ruthenium(II)-Catalyzed Hydroarylations of Unactivated Alkenes via C–H Cleavage
Marvin Schinkel, Ilan Marek and Lutz Ackermann
Angew. Chem., Int. Ed. (2013), 52, 3977-3980

- 157) Alkenyl Zinc reagents in Cross-Coupling Reactions
In Cross-Coupling and Heck-Type Reactions 1 – C-C Cross Coupling Using Organometallic Partners
Tom Mejuch and Ilan Marek
Science of Synthesis, (2012), 765-794.
- 156) Forming All-Carbon Quaternary Stereogenic Centres in Acyclic Systems from Alkynes
Yury Minko, Morgane Pasco, Luckas Lercher, Mark Botoshansky, Ilan Marek
Nature, (2012), 490, 522-526
- 155) Convergent Diastereoselective Preparation of Adjacent Quaternary Stereocenters in an Acyclic System
Tom Mejuch, Bishnu Dutta, Mark Botoshansky and Ilan Marek
Organic and Biomolecular Chemistry (2012), 10, 5803-5806 (Special issue for 10th Birthday)
- 154) Efficient Brønsted Acid Catalyzed Hydrations and Hydroaminations of (Dicyclopropylmethylene)cyclopropane
Lutz Ackermann, Sergei I. Kozhushkov, Dmitry S. Yufit, Ilan Marek
Synlett, (2011), 1515-1518
- 153) Combined Carbometalation–Zinc Homologation–Allylation Reactions as a New Approach for Alkoxyallylation of Aldehyde
Tom Mejuch, Mark Botoshansky, and Ilan Marek
Org. Lett. (2011), 13, 3604-3607
- 152) Conjugate Additions to Alkylidene Bis-sulfoxides
Frank Brebion, Guillaume Vincent, Saloua Chelli, Ophelie Kwasnieski, Francisco Najera, Benedicte Delouvie, Ilan Marek, Etienne Derat, Jean-Philippe Goddard, Max Malacria, Louis Fensterbank
Chem. Asian J. (2011), 6, 1825-1833
- 151) Axial Preferences in Allylation via the Zimmerman-Traxler Transition State
Noga Gilboa, Hoa Wang, Ken N. Houk and Ilan Marek
Chem. Eur. J. (2011), 17, 8000-8004
- 150) Carbometalation of Carbon-Carbon Double Bonds in Stereoselective Carbometalations of Carbon-Carbon Double Bonds
Ilan Marek and Ahmad Basheer
Stereoselective Synthesis 1 in Science of Synthesis Ed: J. G. de Vries, (2011), 325-408.
- 149) Enantioselective Synthesis of all-Carbon Quaternary Stereogenic Centers in Acyclic Systems
Jaya P. Das and Ilan Marek
Chem. Commun. (Feature article) (2011), 47, 4593-4623
- 148) Recent Advances in Carbocupration of α -heterosubstituted alkynes
Ahmad Basheer and Ilan Marek
Beilstein J. Org. Chem. (2010), 6, No. 77. doi:10.3762/bjoc.6.77

- 147) Regioselective Carbon-Carbon Bond Cleavage in the Oxidation of Cyclopropenylcarbinols
Ahmad Basheer, Massaki Mishima and Ilan Marek
Org. Lett (2011), 13, 4076-4079
- 146) Selectivity in Metal-Catalyzed Carbon-Carbon Bond Cleavage of Alkylidenecyclopropanes
Ahmad Masarwa and Ilan Marek
Chem. Eur. J. (2010), 16, 9712-9721
- 145) Diastereo- and Enantioselective Intramolecular Carbometalation Reaction
Rozalia Unger, Theodore Cohen and Ilan Marek
Tetrahedron (2010), 66, 4874-4881
- 144) Highly Diastereoselective Preparation of Homoallylic Alcohols Containing Two Contiguous Quaternary Stereocenters in Acyclic Systems from Simple Terminal Alkynes
Bishnu Dutta, Noga Gilboa and Ilan Marek
J. Am. Chem. Soc. (2010), 132, 5588-5589
- 143) Hydroformylation Reaction of Alkylidenecyclopropane Derivatives: A new Pathway for the Formation of Acyclic Aldehydes Containing Quaternary Stereogenic Carbons
Samah Simaan and Ilan Marek
J. Am. Chem. Soc. (2010), 132, 4066-4067
- 142) The Superiority of Properly Prepared Lithium 1-*N,N*-Dimethylaminonaphthalenide (LDMAN) over Other Aromatic Radical-anions for the Generation of Organolithiums by Reductive Lithiation
Roman Ivanov, Ilan Marek and Theodore Cohen
Tetrahedron Lett. (2010), 51, 174-176
- 141) Regiodivergent Carbometalation Reactions of Ynol Ether Derivatives
Anat Levin, Ahmad Basheer and Ilan Marek
Synlett (2010), 329-332
- 140) Metal-Catalyzed Ring-Opening of Alkylidenecyclopropanes as a New Approach to the Preparation of Enantiomerically Pure all-Carbon Quaternary Stereocenters
Samah Simaan, Alex F. G. Golberg, Stephane Rosset and Ilan Marek
Chem. Eur. J. (2010), 16, 774 -778
- 139) Enantioselective preparation of enantiomerically Pure Cyclobutene derivatives
Ahmad Masarwa, Alois Fürstner and Ilan Marek
Chem. Commun (2009), 5760-5762
- 138) Preface for a special issue of Chemistry, A European Journal dedicated to Yitzhak Apeloig
Miri Karni, Ilan Marek, Sason Shaik
Chem. Eur. J. (2009), 15, 8340-8343
- 137) Cyclopropenylcarbinol Derivatives: New Versatile Intermediates in Organic Synthesis. Application to the Formation of Enantiomerically Pure Alkylidenecyclopropane Derivatives.
Samah Simaan, Ahmad Masarwa, Elinor Zohar, Amnon Stanger, Philippe Bertus, Ilan Marek
Chem. Eur. J. (2009), 15, 8449-8464
- 136) The Basics of Zinc Activation (Perspectives)
Ilan Marek
Science, (2009), 326, 673-674

- 135) Tandem Zn-Brook rearrangement/Ene-Allene Carbocyclization
Rozalia Unger, Theodore Cohen, Ilan Marek
Eur. J. Org. Chem. (2009), 1749-1756
- 134) Enantioselective Construction of all-Carbon Quaternary Stereogenic Carbons in Aldol Reactions
Jaya P. Das, Helena Chechik and Ilan Marek
Nature Chemistry, (2009), 1, 128-132
- 133) Diastereo- and Enantioselective Zinc ene-allene Carbocyclization
Rozalia Unger, Fritz Weisser, Nicka Chinkov, Amnon Stanger, Theodore Cohen and and Ilan Marek
Org. Lett. (2009), 11, 1853-1856
- 132) Copper-catalyzed Hydride Transfer Towards the Formation of Alkylidenecyclopropane Derivatives
Samah Simaan and Ilan Marek
Chem. Commun (2009), 292-294
- 131) Stereoselective Synthesis of Metalated Cyclobutane Derivatives
Einav Tsoglin, Helena Chechik, Guy Karseboom, Nicka Chinkov, Amnon Stanger and Ilan Marek
Advanced Synthesis and Catalysis (2009), 351, 1005-1008
- 129) Zinc Homologation-Elimination Reaction of α -Sulfinyl Carbanions as a New Route to Olefins
Adi Abramovitch and Ilan Marek
Eur. J. Org. Chem. (2008) 4924-4931
- 128) Convergent Preparation of Enantiomerically Pure Polyalkylated Cyclopropane Derivatives
Adi Abramovitch, Louis Fensterbank, Max Malacria and Ilan Marek
Angew. Chem. Int. Ed. (2008) 47, 6865-6868
- 127) A shift in Retrosynthetic Paradigm (Concept article)
Ilan Marek
Chem. Eur. J. (2008), 14, 7460-7468
- 126) Cyclopropenyllithiums as a New Source of 1,1-Bismetallated Cyclopropyl Derivatives
Anat Levin and Ilan Marek
Chem. Commun. (2008), 4300-4302
- 125) Synthesis of Sulfoximidoyl-Substituted Triazoles by Huisgen 1,3-Dipolar Cycloaddition
Bernhard Fuger, Genia Sklute, Ilan Marek, Gae Young Bolm, Carsten Bolm
Synlett, (2008), 116-118
- 124) Intramolecular Carbozincation of Unactivated Alkenes Occurs Through a Zinc Radical Transfer Mechanism
Theodore Cohen, Heather Gibney, Roman Ivanov, Edmund A.-H. Yeh, Ilan Marek and Dennis P. Curran
J. Am. Chem. Soc. (2007), 129, 15405-15409
- 123) Diastereodivergent Synthesis of Enantiomerically Pure Homoallylic Amine Derivatives Containing Quaternary Carbon Stereocenters
Goren Kolodney, Genia Sklute, Sylvie Perrone, Paul Knochel and Ilan Marek
Angew. Chem. Int. Ed. (2007), 46, 9291-9294; *Angew. Chem.* (2007), 119, 9451-9454
- 122) An Efficient, Facile and general Stereoselective Preparation of Heterosubstituted Alkylidenecyclopropanes

Ahmad Masarwa, Amnon Stanger and Ilan Marek
Angew. Chem. Int. Ed. (2007), 46, 8039-8042

- 121) Enantiomerically Enriched Cyclopropene Derivatives: Versatile Building Blocks in Asymmetric Synthesis
Ilan Marek, Samah Simaan, Ahmad Masarwa
Angew. Chem. Int. Ed. (2007), 46, 7364-7376
- 120) Creation of Chiral Quaternary Stereocenters in the Carbonyl Allylation Reactions
Ilan Marek and Genia Sklute
Chem. Commun. (Feature article), (2007), 43, 1683-1691
- 119) Stereodivergent Carbometalation Reactions of Cyclopropenylcarbinols Derivatives
Samah Simaan and Ilan Marek
Org. Lett. (2007), 9, 2569-2571
- 118) Regio- and Stereoselective Copper-Catalyzed Carbozincation of Alkynylsulfoximines
Genia Sklute, Carsten Bolm and Ilan Marek
Org. Lett. (2007), 9, 1259-1261
- 117) A Zirconium *Promenade*; A Efficient Tool in organic Synthesis
Ilan Marek, Nicka Chinkov and Anat Levin
Synlett (account), 501-514 (2006)
- 116) Multicomponent Approach for the Creation of Chiral Quaternary Centers in the Carbonyl Allylation Reactions
Genia Sklute and Ilan Marek
J. Am. Chem. Soc. (2006), 128, 4642-4649
- 115) Chiral Cyclopropenylcarbinols as a New Source of Chiral Alkylidenecyclopropane Derivatives
Samah Simaan, Ahmad Masarwa, Philippe Bertus and Ilan Marek
Angew. Chem., Int. Ed., (2006), 45, 3963-3965
- 114) Unsaturated Fatty Alcohol Derivatives as a New Source of Substituted Allylzirconocenes
Nicka Chinkov, Anat Levin and Ilan Marek
Angew. Chem., Int. Ed., (2006), 45, 465-468
- 113) New Tandem Zn-Promoted Brook Rearrangement/Ene-Allene carbocyclization Reactions
Rozalia Unger, Theodore Cohen and Ilan Marek
Org. Lett. (2005), 7, 5313-5316
- 112) Special issue of Tetrahedron Symposium-in-Print on Multicomponent Reactions
Ilan Marek
Tetrahedron, (2005), 61, 11309-11519
- 111) Stereoselective Functionalization of Cyclopropane Derivatives Using Bromine/Magnesium and Sulfoxide/Magnesium Exchange Reactions
Felix Kopp, Genia Sklute, Kurt Polborn, Ilan Marek and Paul Knochel
Org. Lett. (2005), 7, 3789-3791
- 110) Preparation and Synthetic Transformation of Alkenyl Carbamate into Vinyl Zirconocene Derivatives
Helena Chechik-Lankin and Ilan Marek
Synthesis (2005), 3311-3318

- 109) Ilan Marek and Helena Chechik-Lankin
Functionalized Organozirconium and Titanium in Organic Synthesis
In Functionalized Organometallic Derivatives
Ed. P. Knochel, Wiley-VCH, Weinheim, 2005, 503-540
- 108) Regiocontrolled Carbometallation Reactions of Ynamides
Helena Chechik-Lankin, Shulamit Livshin and Ilan Marek
Synlett (2005), 2098-2100
- 107) Synthesis of Chiral Methylenecyclopropanes Derivatives
Elinor Zohar, Amnon Stanger and Ilan Marek
Synlett (2005), 2239-2241
- 106) Ambiphilic Zinc Carbenoid as a New Tool for Multicomponent Condensation Reactions
Ilan Marek
Isr. Chem. Soc. (2004), 16, 22-32
- 105) Stereoselective Synthesis and Reactivity of Dienyl Zirconocene
Nicka Chinkov, Swapan Majumbar and Ilan Marek
Synthesis, (2004), 2411-2417
- 104) New Regio-, Stereo-, Diastereo-, and enantioselective One-Pot Reactions Mediated by Organometallic Derivatives
Nicka Chinkov, Genia Sklute, Helena Chechik, Adi Abramovitch, Deborah Amsallem, Jos, P. Varghese, Swapan Majumbar and Ilan Marek
Pure and Applied Chem. (2004) 76, 517-535
- 103) Nicka Chinkov and Ilan Marek
Stereoselective Synthesis of Dienyl Zirconocenes Complexes
Topic in Organometallic Chemistry
Volume: New Aspects of Zirconium Containing Organic Compounds
Springer Verlag, (2004), 133-166
- 102) Frederic Leroux, Manfred Schlosser, Elinor Zohar and Ilan Marek
The Preparation of Organolithium Compounds and Derivatives
in *The Chemistry of Organolithium Compounds*
Eds Rappoport, Z.; Marek, I., John Wiley & Sons, Chichester, (2004), 435-493
- 101) Daniella Tene and Ilan Marek
Carbometallation Reaction
in *Transition Metals for Fine Chemicals and Organic Synthesis-second edition*
Eds C. Bolm , M. Beller, Wiley-VCH, (2004), 563-573
- 100) Nicka Chinkov, Daniella Tene and Ilan Marek
Carbometallation Reaction
in *Metal-Catalyzed Cross-Coupling Reactions- second edition*
Eds Diederich, F.; de Meijere, A. Wiley-VCH, (2004), 395-478
- 99) Stereoselective Preparation of Deuteriated Dienes by Ring Fragmentation of Metallated Cyclopropylcarbinols
Elinor Zohar, Mirit Ram and Ilan Marek
Synlett (2004) 1288-1290

- 98) Convenient Access to 2-(Trialkylstannyl)cyclopropylamines and Their Application in Palladium-Catalyzed Cross-Coupling Reactions
Stefan Wiedemann, Karsten Rauch, Andrei Savchenko, Ilan Marek, Armin de Meijere
Eur. J. Org. Chem. (2004) 631-635
- 97) Diastereoselective Reduction of Cyclopropenylcarbinol: new Access to *Anti*-Cyclopropylcarbinol Derivatives
Elinor Zohar and Ilan Marek
Org. Lett. (2004), 6, 341-343
- 96) η^5 -Sulfinyl Carbanions as A New Source of Olefins
Adi Abramovitch, Jos P. Varghese, Ilan Marek
Org. Lett. (2004), 6, 621-623
- 95) From Vinyl Sulfides, Sulfoxides and Sulfones to Vinyl Zirconocene Derivatives
Shahera Farhat, Irena Zouev and Ilan Marek
Tetrahedron (2004), 60, 1329-1337
- 94) Regio- and Stereoselective Synthesis of Novel *E*-Alkenyl Carbamate via Carbocupration Reaction
Helena Chechik and Ilan Marek
Org. Lett. (2003) 5, 5087-5089
- 93) Stereoselective Preparation of Dienyl Zirconocene Complexes via a Tandem Allylic C-H bond Activation-Elimination Sequence
Nicka Chinkov, Swapan Majumdar and Ilan Marek
J. Am. Chem. Soc. (2003) 125, 13258-13264
- 92) Four-Component Reactions for a New Diastereo- and Enantioselective Synthesis of Chiral Quaternary Centers.
Genia Sklute, Deborah Amsallem, Amal Shibli, Jos P. Varghese and Ilan Marek
J. Am. Chem. Soc. (2003) 125, 11776-11777
- 91) Synthesis and Reactivity of Geminated Organobismetallic Derivatives
Ilan Marek
Actualite Chimique, special issue on the *Present and future in Chemistry*, (2003) 17-24
- 90) Stereoselective Preparation of Functionalized Unsaturated Lactones and Esters via Functionalized Magnesium Compounds
Viet Anh Vu, Ilan Marek, Paul Knochel
Synthesis, (2003) 1797-1802
- 89) Leila Motiei, Ilan Marek, Hugo Gottlieb, Vered Marks and Jean-Paul (Moshe) Lellouche
Reaction of Allylzirconocene Compounds with Isolated or *In Situ* Generated η^5 Pentadienyl $\text{Fe}(\text{CO})_3/\text{Fe}(\text{CO})_2\text{PPh}_3(+1)$ Cations.
Tetrahedron Lett. (2003) 44, 5909-5912
- 88) Sp^3 Organozinc Carbenoid Homologation in Organic Synthesis
Ilan Marek
Tetrahedron Report, (2002) 58, 9463-9475
- 87) New Approach to the Stereoselective Synthesis of Metallated Dienes via an Isomerization-Elimination Sequence
Nicka Chinkov, Swapan Majumdar, Ilan Marek
J. Am. Chem. Soc. (2002) 124, 10282-10283

- 86) New Preparation of Stereodefined α,β -Unsaturated Ketones by Carbomagnesiation of α -allyl ketone
Nicka Chinkov, Natalia Morlender-Vais, Ilan Marek
Tetrahedron Lett. (2002) 43, 6009-6010
- 85) New Methods for the Preparation of Sp^2 Organometallic derivatives
Nicka Chinkov, Helena Chechik, Swapan Majumbar, Annie Liard and Ilan Marek
Synthesis, (2002) 2473-2483
- 84) Carbocupration-Zinc Carbenoids Homologation and α -Elimination Reactions for a New Synthesis of Allenes. Applications to a New Synthesis of Chiral Allenes via Deracemization of Sp^3 Organometallic Derivatives
Jos P. Varghese, Irena Zouev, Lionel Aufauvre, Paul Knochel and Ilan Marek
Eur. J. Org. Chem. (2002) 4151-4158
- 83) Eike Hupe, Ilan Marek and Paul Knochel
Diastereoselective Reduction of Alkenylboronic Esters as a New Method for Controlling the Stereochemistry of up to Three Adjacent Centers and Acyclic Molecules
Org. Lett. (2002) 4, 2861-2863
- 82) Functionalized Aminocyclopropanes from Functionalized Organozinc Compounds and *N,N*-Dialkylcarboxamides
Stefan Wiedemann, Ilan Marek, Armin de Meijere
Synlett (2002) 879-882
- 81) Swapan Majumdar, Armin de Meijere and Ilan Marek
Catalytic Asymmetric and Stereoselective Synthesis of Vinyl Cyclopropanes
Synlett (2002) 423-426
- 80) Shahera Farhat and Ilan Marek
From Vinyl Sulfides, Sulfoxides and Sulfones to Transition Metal Complexes
Angew. Chem. Int. Ed. (2002) 41, 1410-1413
- 79) Viet Anh Vu, Ilan Marek, Kurt Polborn, Paul Knochel
Preparation of New Functionalized Cyclopropylmagnesium Reagents
Angew. Chem. Int. Ed. (2002) 41, 351-352
- 78) Ilan Marek
Preface for a special issue of the Journal of Organometallic Chemistry dedicated to Prof. Jean F. Normant
J. Organomet. Chem. (2001) 624, 1-3
- 77) Annie Liard, Helena Chechik, Shahera Farhat, Natalia Morlender-Vais, Claudia Averbuj, Ilan Marek
Oxidative Addition- α -elimination: A New Method for the preparation of organometallic compounds
J. Organomet. Chem. (2001) 624, 26-33
- 76) Hadi Rezaei, Ilan Marek, Jean F. Normant
Diastereoselective Carbozincation of Propargylic Amines
Tetrahedron (2001) 57, 2477-2483
- 75) Amal Shibli, Jos P. Varghese, Paul Knochel, Ilan Marek
Improved preparation of secondary zinc iodides by 1,2-migration of sp^3 carbenoids
Synlett (2001) 818-820

- 74) Synthesis and Reactivity of sp² Geminated Organobismetallics
Ilan Marek
Chem. Rev. (2000) 100, 2887-2900
- 73) Natalia Vais-Morlender, Nicka Solodovnikova, Ilan Marek
Carbometalation of unactivated alkynes via low valent titanium derivatives.
Chem. Commun. (2000) 1849-1850
- 72) Jos Varghese, Paul Knochel, Ilan Marek
New Allene Synthesis via Carbocupration- Zinc Carbenoid Homologation and α -elimination
Org. Lett. (2000) 2, 2849-2852
- 71) Annie Liard, Ilan Marek
Stereoselective Preparation of E Vinyl Zirconium Derivatives from E or Z Enol Ether
J. Org. Chem. (2000) 65, 7518-7220
- 70) Natalia Vais-Morlender, Julia Kaftanov and Ilan Marek
First Synthesis and reactivity of functionalized alkynyl titanium derivatives.
Synthesis, (2000) 917-920
- 69) Edwige Lorthiois, Jean Normant, Ilan Marek
Novel Stereoselective and Enantioselective Synthesis of Heterocyclic Compounds by Anionic Method
Actual. Chim. (2000) 3, 60-61
- 68) Julia Kaftanov, Natalia Vais-Morlender, Claudia Averbuj, Annie Liard, Ilan Marek
Synthesis and reactivity of Polymetallated Olefins and Functionalized Metallo-Alkynes
Polyhedron (2000) 19, 563-566
- 67) Arindam Chakraborty and Ilan Marek
New one-pot Synthesis of α -Iodoalkyne
Synthetic Comm. (2000) 30, 1895-1901
- 66) Benoit Folleas, Ilan Marek, Jean F. Normant
Fluoroform: An efficient precursor for the trifluoromethylation of aldehydes
Tetrahedron (2000) 56, 275-283
- 65) Enantioselective Carbometalation of unactivated Olefins
Ilan Marek
J. Chem. Soc. Perkin Trans. 1, (1999) 535-544
- 64) Arindam Chakraborty, Ilan Marek
Iodine Transfer cyclization mediated by DIBAL-H/THF
Chem. Commun. (1999) 2375-2376
- 63) Lionel Aufavre, Paul Knochel, Ilan Marek
A New Approach towards the Synthesis of sp³ 1,1-diiodoalkanes
Chem. Commun., (1999) 2207-2208
- 62) Claudia Averbuj, Julia Kaftanov, Ilan Marek
First Synthesis of Metallated Titanacyclopropenes
Synlett (1999) 11, 1939-1941
- 61) Salvatore Avolio, Christophe Malan, Ilan Marek, Paul Knochel

Preparation and Reaction of Functionalized Magnesium Carbenoids
Synlett (1999) 11, 1820-1822

- 60) Ilan Marek, Peter R. Schreiner, Jean F. Normant
The Allyl Zincation of Vinyl Metals. A Computational Study
Org. Lett. (1999) 1, 929-931
- 59) Stephanie Norsikian, Ilan Marek*, Sophie Klein, Jean-Francois Poisson, Jean F. Normant*
Enantioselective Carbometalation of Cinnamyl Derivatives: New Access to Chiral Disubstituted Cyclopropanes. Configurational Stability of Benzylic Organozinc Halides
Chem. Eur. J. (1999) 5, 2055
- 58) Nathalie Bremand, Ilan Marek*, Jean F. Normant*
Diastereoselective contra-Michael addition of (-)-sparteine/organolithium complexes to secondary chiral cinnamyl amides
Tetrahedron Lett. (1999) 40, 3383-3386
- 57) Nathalie Bremand, Ilan Marek*, Jean F. Normant*
Regioselective addition of nbutyllithium on secondary cinnamyl amides Michael versus contra-Michael process
Tetrahedron Lett. (1999) 40, 3379-3382
- 56) Isabelle Creton, Hadi Rezaei, Ilan Marek*, Jean F Normant*.
First Transfer of Chirality in the Fritsch- Buttenberg-Wiechell Rearrangement, via Zinc Carbenoids : A migration with Retention of Configuration
Tetrahedron Lett. (1999) 40, 1899-1902
- 55) Ilan Marek, Jean-F Normant
Preparation and Reaction of 1,n-bimetallic Reagents in Practical Approach in Organozinc Chemistry
Ed . Knochel, P. (1998) *Oxford University Press*, 119-137
- 54) Ilan Marek, Jean-F Normant
Carbometallation Reactions in Metal-Catalyzed Cross-Coupling Reactions
Eds Stang, P.J., Diederich, F. *Wiley-VCH*, (1998) 271-337
- 53) Ilan Marek, Jean-F Normant
Carbometalation Reactions in Transition Metals for Fine Chemicals and Organic Synthesis,
Eds. Bolm, C., Beller, C. *Wiley-VCH*, (1998) 514-522
- 52) Denis Brasseur, Ilan Marek*, Jean F. Normant*
Diastereoselective Carbometalation of Chiral Vinyl Metals
C. R. Acad. Sci. Paris, t.1, Serie II c (1998) 621-625
- 51) Denis Brasseur, Hadi Rezaei, Alain Fuxa, Alex Alexakis, Pierre Mangeney, Ilan Marek*, Jean F. Normant*
First Diastereoselective carbometalation Of Chiral Vinyl Metals
Tetrahedron Lett. (1998) 39, 4821-4824
- 50) Benoit Folleas, Ilan Marek*, Jean-F. Normant* and Laurent Saint Jalmes
Fluoroform: An Efficient Precursor for the Trifluoromethylation of Carbonyl Compounds
Tetrahedron Lett. (1998) 39, 2973-2976
- 49) Edwige Lorthiois, Ilan Marek*, Jean-F. Normant*

Diastereoselective and Enantioselective Intramolecular Amino-Zinc-Enolate Carbometalation Reactions. A New Polysubstituted Pyrrolidines Synthesis
J. Org. Chem. (1998) 63, 2442-2450

- 48) Edwige Lorthiois, Ilan Marek*, Jean-F. Normant*
Amino-Zinc-Enolate carbocyclization reactions. New Access to Polysubstituted Piperidines Derivatives
J. Org. Chem. (1998) 64, 566-574
- 47) Stephanie Norsikian, Ilan Marek*, Jean-F. Normant*
Enantioselective Carbolithiation of α -alkylated Styrene
Tetrahedron Lett. (1997) 38, 7523-7526
- 46) Stephanie Norsikian, Ilan Marek*, Jean-Francois Poisson, Jean-F. Normant*
Enantioselective Carbolithiation of Cinnamyl Acetals. New Access to Chiral disubstituted Cyclopropanes
J. Org. Chem. (1997) 62, 4898-4899
- 45) Edwige Lorthiois, Ilan Marek*, Jean-F. Normant*
Zinca-ene-allene Cyclizations. A way to Substituted Tetrahydrofurans or Pyrrolidines
Bull. Soc. Chim. Fr. (1997) 134, 333-341
- 44) Edwige Lorthiois, Ilan Marek*, Jean-F. Normant*
Zinca-en-allene and Zinc-enolate Cyclization. Towards the Synthesis of Polysubstituted Pyrrolidines
Tetrahedron Lett. 1997, 38, 89-92
- 43) Ilan Marek, Christophe Meyer and Jean-F. Normant
A Simple and Convenient Method for the Preparation of (Z) or (E)- γ -Iodo Allylic Alcohols and (Z)- β -Iodo Acrolein
Org. Synth. (1997) 74, 194-204
- 42) Synthesis and Reactivity of sp³ Geminated Organobismetallics
Ilan Marek* and Jean-F. Normant
Chem. Rev. (1996) 96, 3241-3267
- 41) Isabelle Creton, Ilan Marek* and Jean-F. Normant*
Synthesis of Polysubstituted Stereodefined Olefins via the Reactivity of sp², Organogembismetallics
Synthesis (1996) 1499-1508
- 40) Edwige Lorthiois, Ilan Marek* and Jean-F. Normant*
Intramolecular Carbolithiation of Silylated Enynes
Tetrahedron Lett. (1996) 37, 6693-6694
- 39) Edwige Lorthiois, Ilan Marek*, Christophe Meyer and Jean-F. Normant*
Intermolecular Carbolithiation of Silylated Enynes
Tetrahedron Lett. (1996) 37, 6689-6692
- 38) Anja Bahr, Ilan Marek* and Jean-F. Normant*
Diastereoselective Carbometalation of δ -Mono and γ - λ -Disubstituted Z Vinyl Metals
Tetrahedron Lett. (1996) 37, 5873-5876
- 37) Christophe Meyer, Ilan Marek* and Jean-F. Normant*

Stereoselective Synthesis of Linear and Angular Triquinanes Skeletons via the Zinca-Ene Allene Reactions

Tetrahedron Lett. (1996) 37, 857-860

- 36) Denis Brasseur, Ilan Marek* and Jean-F. Normant*
Diastereoselective Synthesis of Heterosubstituted Organogembimetallic Reagents. Application to a New Propargylmetalation Reaction of Vinyl Metals
Tetrahedron (1996) 52, 7235-7250
- 35) Isabelle Creton, Ilan Marek* and Jean-F. Normant*
Stereoselective Synthesis of Polysubstituted Olefins Via the Formation of 1,1-Bimetalloalkenes
Tetrahedron Lett. (1995) 36, 7451-7454
- 34) Sophie Klein, Ilan Marek*, Jean Francois Poisson and Jean-F. Normant*
Asymmetric Carbolithiation of Cinnamyl Derivatives in the Presence of (-) Sparteine
J. Am. Chem. Soc. (1995) 117, 8853-8854
- 33) Fan Wang, Jie Tang, Lydie Labaudiniere, Ilan Marek* and Jean-F. Normant*
Diastereoselective Reactions of Gembimetallic Derivatives
Synlett (1995) 723-7251
- 32) Ilan Marek*, Dov Beruben and Jean-F. Normant*
Metal-Alkene π -Chelation: A Stereodirecting Effect in Allylzincation Reactions and in Zinc Mediated Cyclopropanations
Tetrahedron Lett. (1995) 36, 3695-3698
- 31) Dov Beruben, Ilan Marek*, Jean-F. Normant and Nicole Platzter
Stereodefined Substituted Cyclopropyl Zinc Reagents from Gembimetallics
J. Org. Chem. (1995) 60, 2488-2501
- 30) Edwige Lorthiois, Ilan Marek*, Christophe Meyer and Jean-F. Normant*
Zinca-En-Allene Cyclization. Synthesis of Substituted Tetrahydrofurans
Tetrahedron Lett. (1995) 36, 1263-1266
- 29) Christophe Meyer, Ilan Marek*, Gilles Courtemanche and Jean-F. Normant*
Intramolecular Metallo-Ene-Allene Reactions. A New Carbocycles Synthesis
J. Org. Chem. (1995) 60, 863-871
- 28) Ilan Marek*, Jean-Michel Lefrancois and Jean-F. Normant*
Diastereoselective Carbometalation of γ -Heterosubstituted Vinylmetals
Bull. Soc. Chim. Fr. (1994) 131, 910-918
- 27) Isabelle Creton, Ilan Marek*, Denis Brasseur, Jean-Luc Jestin and Jean-F. Normant*
Phenylthioacetylene as a Source of Stereodefined Trisubstituted Alkenes
Tetrahedron Lett. (1994) 35, 6873-6876
- 26) Christophe Meyer, Ilan Marek*, Jean-F. Normant and Nicole Platzter*
Carbocyclization of δ -acetylenic Propargylic Zinc Reagents
Tetrahedron Lett. (1994) 35, 5645-5648
- 25) Christophe Meyer, Ilan Marek*, Gilles Courtemanche and Jean-F. Normant*
Intramolecular Carbometallation of Organozinc Reagents
Tetrahedron (1994) 50, 11665-11692
- 24) Ilan Marek*, Jean-Michel Lefrancois and Jean-F. Normant*

Diastereoselective Carbometalation of Vinyl Metals
J. Org. Chem. (1994) 59, 4154-6166

- 23) Sophie Klein, Ilan Marek* and Jean-F. Normant*
Carbolithiation of Cinnamyl dialkylamines. Stereochemistry of the Li to Zn transmetalation and Configurational Stability of Benzylic Organozinc Halides
J. Org. Chem. (1994) 59, 2925-2926
- 22) Dov Beruben, Ilan Marek*, Jean-F. Normant* and Nicole Platzter
Cyclic Stereocontrol Via Organobismetallic Reagents. Part VI. Stereodefined Substituted Cyclopropyl Zinc Reagents
Tetrahedron Lett. (1993) 34, 7575-7578
- 21) Christophe Meyer, Ilan Marek*, Gilles Courtemanche and Jean-F. Normant*
Intramolecular Carbometallation of Secondary Organozinc Reagents
Tetrahedron Lett. (1993) 34, 6053-6056
- 20) Fabrice Chemla*, Ilan Marek and Jean-F. Normant*
Selective Monoalkylation of Organogembismetallics Via an Intramolecular Nucleophilic Substitution
Synlett (1993) 665-666
- 19) Christophe Meyer, Ilan Marek* and Jean-F. Normant*
(E)-or (Z)- β -iodoacrolein: A Novel Versatile Synthone
Synlett (1993) 386-388
- 18) Christophe Meyer, Ilan Marek* and Jean-F. Normant*
Carbocyclisation of Functionalized Zinc Organometallics
Synlett (1993) 266-268
- 17) Dov Beruben, Ilan Marek*, Lydie Labaudiniere and Jean-F. Normant*
Cyclic Stereocontrol Via Organobismetallic Reagents. Part V. Diastereoselective Synthesis of Substituted Cyclopropyl Zinc Reagents by the Metalla-Claisen Reaction
Tetrahedron Lett. (1993) 34, 2303-2306
- 16) Alex Alexakis*, Pierre Mangeney, Ilan Marek, Françoise Rose-Munch, Eric Rose, Assia Semra and Francis Robert
Resolution and Asymmetric Synthesis of Ortho-Substituted (Benzaldehyde) Tricarbonylchromium Complexes
J. Am. Chem. Soc. (1992) 114, 8288-8290
- 15) Jean-F. Normant, Ilan Marek and Jean-Michel Lefrançois
Organobismetallic Zinc Reagents: Their Preparation and Use in Diastereoselective Reactions
Pure and Appl. Chem. (1992) 64, 1857-1864
- 14) Ilan Marek*, Jean-Michel Lefrançois and Jean-F. Normant*
Acyclic Stereocontrol Via Organogembismetallic Reagents. Part III
Synlett (1992) 633-635
- 13) Ilan Marek, Alex Alexakis*, Pierre Mangeney and Jean-F. Normant
Synthèse d'Alcoxyallènes Chiraux par Carbocupration d'Acétals Propargyliques. Etude de Leur Réactivité à l'égard d'Organocuprates
Bull. Soc. Chem. Fr. (1992) 129, 171-190

- 12) Ilan Marek*, Jean-Michel Lefrancois and Jean-F. Normant*
Iodocyclisation of Olefinic t-butyl Ethers: An Easy Stereocontrolled Synthesis of Cis-Substituted Tetrahydrofurans
Tetrahedron Lett. (1992) 33, 1747-1748
- 11) Ilan Marek*, Alex Alexakis and Jean-F. Normant*
 γ -tributylstannyl- β -metallated Acrolein: A Versatile Synthone
Tetrahedron Lett. (1991) 32, 6337-6340
- 10) Ilan Marek* and Jean-F. Normant,
Acyclic Stereocontrol through the Metalla-Claisen Rearrangement. Part II
Tetrahedron Lett. (1991) 32, 5973-5976
- 9) Ilan Marek*, Jean-Michel Lefrancois and Jean-F. Normant*
Acyclic Stereocontrol Through the Metalla-Claisen Rearrangement. Part I
Tetrahedron Lett. (1991) 32, 5969-5972
- 8) Ilan Marek*, Alex Alexakis and Jean-F. Normant
A Highly Efficient Synthesis of (Z)- γ -iodo Allylic Alcohols
Tetrahedron Lett. (1991) 32, 5329-5332
- 7) Alex Alexakis*, Ilan Marek, Pierre Mangeney and Jean-F. Normant
Diastereoselective *Syn* or *Anti* Opening of Propargylic Epoxides. Synthesis of α -allenic Alcohols
Tetrahedron (1991) 47, 1677-1696
- 6) Alex Alexakis* Ilan Marek, Pierre Mangeney, Jean-F. Normant
Mechanistic Aspects on the Formation of Chiral Allenes From propargylic Ethers and Organocopper Reagents
J. Am. Chem. Soc. (1990) 112, 8042-8047
- 5) Jean-P. Declercq* and Ilan Marek
Structure of 1,3,5-triallyl-4,6-diphenyl-1,3,5-triazacyclohexan-2-one
Acta. Cryst., (1990) C46, 1168-1170
- 4) Alex Alexakis* Ilan Marek, Pierre Mangeney, Jean-F. Normant
Copper-Catalyzed Reductive Metallation of a Propargylic Epoxide to an Allenyl Lithium Reagent
Tetrahedron. Lett. (1989) 30, 2391-2392
- 3) Alex Alexakis* Ilan Marek, Pierre Mangeney, Jean-F. Normant
Diastereoselective Synthesis of α -Allenic Alcohols from Propargylic Epoxides
Tetrahedron. Lett. (1989) 30, 2387-2390
- 2) Alex Alexakis*, Pierre Mangeney, Abdellaziz Ghribi, Ilan Marek, Richard Sedrani, Christophe Guir and Jean-F. Normant
Chiral Acetals in Enantio- and Diastereoselective Substitution or Elimination Reactions
Pure & Appl. Chem. (1988) 60, 49-56
- 1) Ilan Marek, Pierre Mangeney, Alex Alexakis* and Jean-F. Normant
Are Allenes formed from Propargylic ethers Through a *Syn* or *Anti*-Displacement?
Tetrahedron Lett. (1986) 27, 5499-5502

Thesis

1988 Ph-D. Thesis from P.M. Curie University, Paris. France
Enantioselective and Diastereoselective Synthesis of Functionalized Allenes

Books

Ilan Marek (Editor)

Titanium and Zirconium in Organic Synthesis

Wiley-VCH, May 2002, 500 pages

Zvi Rappoport and Ilan Marek (Editors)

The Chemistry of Organolithium Compounds. Part 1 and 2.

(Patai's series)

John Wiley & Sons, Chichester, England, 2004, 1400 pages

Ilan Marek (Editor)

Topic in Organometallic Chemistry

Volume: New Aspects of Zirconium Containing Organic Compounds

Springer Verlag, 2005, 170 pages

Zvi Rappoport and Ilan Marek (Editors)

The Chemistry of Organolithium Compounds-Volume 2

(Patai's series)

John Wiley & Sons, Chichester, England, 2005, 740 pages

Zvi Rappoport and Ilan Marek (Editors)

The Chemistry of Organozinc Compounds (Patai's series)

John Wiley & Sons, Chichester, England, 2006, 1100 pages

Zvi Rappoport and Ilan Marek (Editors)

The Chemistry of Organomagnesium Compounds (Patai's series)

John Wiley & Sons, Chichester, England, 2008, 890 pages

Zvi Rappoport and Ilan Marek (Editors)

The Chemistry of Organocopper Compounds (Patai's series)

John Wiley & Sons, Chichester, England, 2009, 1138 pages.

Zvi Rappoport and Ilan Marek (Editors)

The Chemistry of Organomanganese Compounds (Patai's series)

John Wiley & Sons, Chichester, England, 2011, 831 pages.

Zvi Rappoport and Ilan Marek (Editors)

The Chemistry of Organoiron Compounds (Patai's series)

John Wiley & Sons, Chichester, England, 2014, 651 pages

Ilan Marek, Zvi Rappoport and Joel Liebman (Editors)

The Chemistry of Organogold Compounds (Patai's series)

John Wiley & Sons, Chichester, England, 2014, 1020 pages

Ilan Marek, Laurent Micouin, Zvi Rappoport (Editors)

The Chemistry of Organoaluminum Compounds (Patai's series)

John Wiley & Sons, Chichester, England, 2017, 850 pages

Ilan Marek, Berit Olofson, Zvi Rappoport (Editors)

The Chemistry of Hypervalent Halogens (Patai's series)

John Wiley & Sons, Chichester, England, 2019, 1032 pages

Mark Gandelman, Zvi Rappoport, Ilan Marek (Editors)
The Chemistry of Organoboron Compounds (Patai's series)
 John Wiley & Sons, Chichester, England, 2021, 1152 pages

Corinne Gosmini, Ilan Marek (Editors)
The Chemistry of Organocobalt Compounds (Patai's series)
 John Wiley & Sons, Chichester, England, 2022, 640 pages

Books in preparation

Veronique Gouverneur, Mark Gandelman, Ilan Marek (Editors)
The Chemistry of Organofluorine Compounds (Patai's series)
 John Wiley & Sons, Chichester, England

• Patents

Gavish M, Marek I, Veenman L, Shterenberg A. (2006)
 Heterocyclic derivatives, pharmaceutical compositions and methods of use thereof.
 Provisional patent application, TECH/005 PCT

US Provisional Patent Application No. 62/669,554
 Entitled: Selective Terminal Functionalization of Alkanes
 Filed: 10 May 2018

Plenary (P), Invited (I) and Keynotes (K) Lectures in International Conferences

- 2024 The art and science of total synthesis of natural and designed molecules for biology and medicine: synthetic strategies and methods, October 2-4, Paris, France (I)
- 2024 Brazilian Meeting on organic Synthesis, Bento Gonzales, September 23-27, Brazil (P)
- 2024 TISI Workshop Nichia, Tokushima, September 10-13, Japan (I)
- 2024 Chemistry@Sete, honoring Odile Eisenstein's 75 birthday, June 3-5, Sete, France (I)
- 2024 International organic and BioOrganic Symposium, January 7, Taichung, Taiwan (P)
- 2023 The 15th International Kyoto Conference on New Aspects of Organic Chemistry, November 20-23, Kyoto, Japan (I)
- 2023 New Trends in Organic Chemistry, September 7-12, Crete, Greece (I)
- 2023 27th International symposium: Synthesis in organic chemistry, July 24-27, Oxford, United Kingdom (P)
- 2023 The Chemical Record Lecturship; The 103rd Japan Chemical Society Annual Meeting, March 22-25th, Tokyo, Japan (P)
- 2023 Organic Chemistry at the Crossroads: An International Symposium in honour of Prof. Alain Krief. January 26th, Namur, Belgium (P)

- 2023 New Frontiers of Molecular Engineering Symposium, January 6th, Kaohsiung, Taiwan (*I*)
- 2022 Israel Chemical Society Meeting, Tel Aviv, September 12-13, Israel (*K*)
- 2022 Chemistry at the Interface of Biology and Medicine, Patras, September 1st -5th, Greece (*I*)
- 2022 International Summer School on Organic Synthesis "A. Corbella"-ISOS, June 12-17, Gargnano, Italy (*P*)
- 2022 Hommage a Francois Couty, June 2nd, Versailles, France (*P*)
- 2022 Novartis Lectureship, April 28th, MIT, Boston, USA (*P*)
- 2022 ACS Spring Meeting, March 20-24, San Diego, USA (*I*)
- 2021 Pacificchem (on-line lecture), December 16-21, Honolulu, Hawaii (*I*)
- 2021 1st Winter In-Person Organic Symposium, December 16-18, Honolulu, Hawaii, USA (*I*)
- 2021 Lepetit Named Lectureship, University Texas at Austin, November 18, Austin, USA (*P*)
- 2021 34th Congreso Latino-americano de Química-CLAQ2020 (on-line lecture), October 11-15, Cathagena, Columbia (*P*)
- 2021 Modern Organic Synthesis Symposium, October 6-10, Warsaw, Poland (*P*)
- 2021 e-Burgenstock meeting (on-line lecture). May 6, th 2021 (*P*)
- 2020 Adolf Lieben Lecturer 2020, Austrian Chemical Society (on-line lecture) (*P*)
- 2019 Chemistry at the Interface of Biology and Medicine, September 21-26, Patras, Greece (*I*)
- 2019 International Conference "Catalysis and Organic Synthesis, September 15-20, Moscow, Russia (*P*)
- 2019 IUPAC Meeting, July 5-12, Paris, France (*I*)
- 2019 Young Investigator Workshop, EuChemS, July 13, Vienna, Austria (*P*)
- 2019 The 19th Bristol Synthesis Meeting, April 9th, Bristol, UK (*P*)
- 2019 84th Israel Chemical Society Meeting, February 12-13th, Tel Aviv, Israel (*I*)
- 2018 3rd International Symposium on organic Chemistry and Green Process, November 7-10, Guangzhou, China (*I*)
- 2018 The 10th Asian-European Symposium on Metal-Mediated Efficient Organic Synthesis, September 27th-30. National Tsing-Hua University, Taiwan (*I*)
- 2018 IntelliSyn Name Lectureship, May 23rd, University of Montreal, Canada (*P*)
- 2018 17th International Cardiff Organic Symposium, May 14-15th. Cardiff, UK (*P*)
- 2018 Carla Symposium, February 18-22, Heidelberg, Germany (*P*)
- 2017 18th Tetrahedron Symposium, July 24-26, Melbourne, Australia (*P*)
- 2017 46th World Chemistry Congress, July 7-13, Sao Paulo, Brazil (*K*)
- 2017 XXXVI Biennial Meeting Spanish Royal Society of Chemistry, June 25-29th, Sietges, Spain (*K*)
- 2017 Ecole de Catalyse, Charm3at, April 2-5, Cabourg, France (*P*)
- 2017 The 9th Angewandte Symposium, The Chemistry for our Future, February 15th, Tel Aviv, Israel (*P*)
- 2016 21st International Conference on organic Synthesis, December 11-16, Mumbai, India (*I*)
- 2016 Novel Methods in Organic Synthesis, November 28, Milan, Italy (*P*)
- 2016 The 20th Thieme Lecture, October 14th, Stuttgart, Germany (*P*)
- 2016 International Conference on Nature Inspired Initiatives in Chemical Trends, September 19-20, Hyderabad, India (*I*)
- 2016 20th OrgChem Symposium, September 5-7, Weimar, Germany (*P*).
- 2016 11th International Symposium on carbanion Chemistry, 17-21 July, Rouen, France

- (P)
- 2015 Frontiers in Inorganic Chemistry honoring Prof. Harry Gray's 80th Birthday, December 1st-3rd, Technion-Israel Institute of Technology, Haifa, Israel (I)
- 2015 The Inter-Academy Symposium of the Israel Academy of Sciences and Humanities and the German National Academy of Sciences, Leopoldina, November 9-10th, Jerusalem, Israel (I)
- 2015 Symposium of Organometallic Chemistry in Synthesis honoring the 65th birthday of Gerard Cahiez, October 22, ENSCP, Paris, France (P)
- 2015 19th European Symposium on Organic Chemistry, 12-16th July, Lisbon, Portugal (P)
- 2015 Swiss Summer School in reaction Design and Synthesis, August 30-September 3, Villars Sur Ollon, Switzerland (P)
- 2015 9th Paul Walden Symposium, May 21-22, Riga, Latvia (P)
- 2015 22th Grasmere Heterocyclic Symposium, May 7th-11th, Grasmere, UK (P)
- 2015 Symposium of the Lise Meitner – Minerva Center for Computational Quantum Chemistry, May 5rd, Tel Aviv, Israel (I)
- 2014 Max Malacria's Symposium honoring his 65th birthday, October 10th, Paris, France (P)
- 2014 1st-Sino-Israel Bilateral Workshop & International Symposium on organometallic and Heterogeneous Catalysis, September 7-9, Beijing, China (I).
- 2014 8th Balticum Organicum Syntheticum, July 6-9, Vilnius, Lithuania (P)
- 2014 The 12th Annual Meeting of the Medicinal Chemistry Section of the Israel Chemical Society, June 23-24, Weizmann Institute, Israel (K)
- 2014 Symposium of Organic Chemistry, June 21st, Geneva, Switzerland (P)
- 2014 Chemistry, Crossway toward Interdisciplinary Science, June 3-4th, Namur, Belgium (P)
- 2014 Eli Lilly Lecture, April 8, Urbana-Champaign, IL, USA (P)
- 2014 The 247th ACS National Meeting, March 16-20, Dallas, USA (P)
- 2013 IRGT Munster-Nagoya Meeting, November 8th, Munster, Germany (P)
- 2013 The Raymond and Beverly Sackler International Prize in Physical Sciences, June 9th, Tel Aviv University, Israel (P)
- 2013 23rd French-Japanese Symposium in Organic Synthesis, May 13-15, Nagasaki, Japan (P)
- 2012 Consorzio Interuniversitario Nazionale su Metodologie e Processi Innovativi di Sintesi, December 3rd, Milan, Italy (P)
- 2012 Ischia Advanced School of Organic Chemistry, September 22-26, Ischia, Napoli, Italy (P)
- 2012 13th Belgian Organic Synthesis Symposium, July 16-20, Leuven, Belgium, (P)
- 2012 Grignard; 100 ans de Modernite d'un Prix Nobel June 21-22, Lyon, France (P)
- 2012 RSC Organic Chemistry Midlands Section Meetings, April 13th, Warwick, UK (P)
- 2012 Israel-German Project Cooperation Meeting, February 24th, Munich, Germany (P)
- 2012 77th Israel Chemical Society Meeting, February 7th-8th, Tel Aviv, Israel (K)
- 2012 Heterocycles and Synthesis Meeting, January 6th, London, UK (P)
- 2011 Israel-Italy Conference on Frontiers in Organic Synthesis, December 13-14th, Tel Aviv, Israel (I)
- 2011 Organic Chemistry Symposium Honoring Prof. Benzion Fuchs, October 24th, Tel Aviv, Israel (P)
- 2011 The 13th European Symposium in Organic Reactivity, September 11-16th, Tartu, Estonia (P)

- 2011 8th International School of Organometallic Chemistry, August 27-31, Camerino, Italy (*P*)
- 2011 Gordon Conference on Natural Products Synthesis, July 24-29, Rhode Island, USA (*P*)
- 2011 Graduate Student Lectureship, July 16, Crete University, Greece (*P*)
- 2011 Eli Lilly Symposium, April, Madrid, Spain (*P*)
- 2011 International Conference on Emerging Areas of Chemistry, January 12-14, Tripura, India (*P*)
- 2010 2nd National Graduate Student Symposium in Organic Chemistry, October 5th, Ben Gurion University, Israel (*P*)
- 2010 Journee de la Societe Chimique de France, September 21-23th, Palaiseau, France (*P*)
- 2010 9th International Symposium on Carbanion Chemistry, July 20-24th, Florence, Italy (*P*)
- 2010 12th Belgian Organic Synthesis Symposium, July 11-16, Namur, Belgium (*P*)
- 2010 Sanofi-Aventis-Ecole Polytechnique Symposium, June 11th, Palaiseau, France (*P*)
- 2010 Winter Organic Synthesis Symposium, January 4th, Bern, Switzerland (*P*)
- 2009 Journee de Chimie Organometallique, December 18, Rouen, France (*P*)
- 2009 3rd Hellenic Symposium on Organic Chemistry, October 15-17th, Athens, Greece (*P*)
- 2009 29th Regio-Symposium, September 23-25, Rheinfelden, Germany (*P*)
- 2009 ICHAC-9, June 30-July 4, Oviedo, Spain (*I*)
- 2009 Rencontre Chimie Organique, April 7, Paris, France (*P*)
- 2009 Pfizer Meeting, March 26-27, Irvine, USA (*P*)
- 2009 ACS Meeting March 22-25, Salt-Lake City, USA (*P*)
- 2009 74th Israel Chemical Society, February 8th, Tel Aviv, Israel (*I*)
- 2008 Lise Meitner-Minerva meeting, November 12-13, Jerusalem, Israel (*I*)
- 2008 DIP Meeting, November 4, Max-Planck Institute, Mulheim, Germany (*I*)
- 2008 2nd EUCHEM, September 16-18, Torino, Italy (*I*)
- 2008 GECO 49, August 24-29, Domaine de Seillac, France (*P*)
- 2008 23rd International Symposium on the Organic Chemistry of Sulfur, June 29-July 4, Moscow, Russia (*P*)
- 2007 2nd International Conference on Development of New Synthetic Methods and Creation of Functions, August, 7th, 2007 Kyoto, Japan (*P*)
- 2007 Tel Aviv Symposium in Organic Chemistry honoring the Sackler Prize in Chemistry, May 14, Tel Aviv, Israel (*P*)
- 2007 Organic Chemistry, Present and Future, April, 10-13, Louvain-La-Neuve, Belgium (*P*)
- 2007 233rd ACS National Meeting, March 25-29, Chicago, USA (*I*)
- 2007 72th Meeting of the Israel Chemical Society February 6-7, Tel Aviv, Israel (*P*)
- 2006 Minerva Meeting on Advances and Trends in Organic Synthesis, December 9-12, Weizmann Institute, Israel (*P*)
- 2006 41st EUCHEM Conference on Stereochemistry, April 22-28, Burgenstock, Switzerland (*P*)
- 2005 XIth NOST Symposium, 25-29th October, Goa, India (*P*)
- 2004 14th European Symposium on Organic Chemistry, July 4-8, Helsinki, Finland (*I*)
- 2004 Symposium in honor of Prof. Bachi, May 23, Weizmann Institute of Science, Israel (*P*)
- 2004 *Half a Century of Organozirconium Chemistry*, ACS National meeting, March 28-April 1, Anaheim, USA (*I*)

- 2004 69th Meeting of the Israel Chemical Society, February 2-3, Tel Aviv, Israel (I)
 2003 12th IUPAC Symposium on Organometallic Chemistry Directed towards Organic Synthesis, July 6-10, Toronto, Canada (P)
 2002 67th Israel Chemical Society, January, Jerusalem, Israel (I)
 2001 6th International Symposium on Carbanion Chemistry, 28 July-August 1, Marburg, Germany (I)
 2000 1st Meeting of Organic Chemistry in Marseille, (*Reactivity and Catalysis in Organic Chemistry*), May 11-12, Marseille, France (P)
 2000 65th Meeting of the Israel Chemical Society, February 8-9, Ben-Gurion University, Israel (I)
 1999 64th Meeting of the Israel Chemical Society, March 16-17, Bar-Ilan University, Israel (I)
 1998 Concoord-Gecom, May 24-29, Noirmoutier, France (P)
 1998 60 years of Wolf Prizes, May 11- 12 May, Jerusalem, Israel (I)
 1997 6th IUPAC Congress, August 17 to 22, Geneva, Switzerland 1997 (I)
 1995 Young Organic Chemists-Workshop on Selective Synthesis, September 16 to 19, Budapest, Hungary (I)
 1995 1st European Chemical Society Symposium, August 12 to 17, Louvain La Neuve, Belgium (P)

Departmental Seminars

University of Montpellier, Wednesday June 19, France
 University of Torino, Wednesday April 17. 2024. Torino, Italy
 UCB, Tuesday March 26. On-line lecture
 University Sorbonne, Monday December 11, 2023, Paris, France
 New York University, Friday March 3rd, 2023, New York, USA
 Rice University, November 17th, 2021, Houston, USA
 Institut des Sciences Supramoléculaires, October 5th, 2021, Strasbourg, France
 Sygnature Discovery, February 6th 2020, Birmingham, UK
 McGill University, October 10 2019, Montreal, Canada
 University of Ottawa, October 7th 2019, Ottawa, Canada
 Lyon University, July 4th 2019, Lyon, France
 University of Ariel, June 12 2019, Ariel, Israel
 Bar-Ilan University, May 15 2019, Ramat Gan, Israel
 Hebrew University of Jerusalem, March 27 2019, Jerusalem, Israel
 University of Bologna, March 7 2019, Bologna, Italy
 University of Geneva, December 13 2018, Geneva, Switzerland
 Czech Academy of Science, October 12 2018, Prague, Czech Republic
 Czech Academy of Science, October 11 2018, Prague, Czech Republic
 University of Beijing, September 20 2018, Beijing, China
 ICIQ, September 13 2018, Tarragona, Spain
 University of Groningen, September 7 2018, Groningen, Netherlands
 Technical University of Munich, April 10 2018, Munich, Germany
 Ludwig-Maximilians University, April 9 2018, Munich, Germany
 University College Dublin, March 28 2018, Dublin, Ireland

UCB company Slough, March 2nd 2018, Slough, UK
Oxford University, March 1st 2018, Oxford, UK
University Autonoma de Madrid, November 22 2017, Madrid, Spain
EPFL, November 10 2017, Lausanne, Switzerland
National Taiwan University, October 11 2017, Taipei, Taiwan
National Taitung University, October 6 2017, Taitung, Taiwan
Genome Research Center, Academia Sinica, October 3rd 2017, Taipei, Taiwan
Seoul National University, September 28 2017, Seoul, Korea
Korean Advanced Institute of Science and Technology (KAIST), September 28 2017, Daejeon, Korea
University of Milan, May 24 2017, Milan, Italy
Basel Chemical Society Lecture, February 2 2017, Basel, Switzerland
College de France, January 18 2017, Paris, France
University Louis Pasteur, September 23 2016, Strasbourg France
Department of Pharmaceutical Chemistry, June 26 2016, University of Vienna, Austria
Osaka Prefecture University, September 30 2015, Osaka, Japan
Osaka University, September 29 2015, Osaka, Japan
Kyoto University, September 25 2015, Kyoto, Japan
Kyoto University, September 24 2015, Kyoto, Japan
Chibu University, September 18 2015, Nagoya, Japan
The 2015 Vanderslice Lecturer, April 21 2015, Boston College, MA, USA
GDCh Colloquium, Justus-Liebig-Universität Giessen, February 3rd 2015, Giessen, Germany
University of Munster, January 28 2015, Munster, Germany
University of Toronto, January 8 2015, Toronto, Canada
Sanofi-Aventis, December 18 2014, Chilly-Mazarin, France
Ben-Gurion University, December 8 2014, Beer Sheva, Israel
Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, September 4 2014, Shanghai, China
University of Illinois, April 7 2014, Chicago, IL, USA
University California, Berkeley, September 16 2013, Berkeley, CA, USA
Janssen Pharmaceutica, March 4 2013, Belgium,
University of Marseille, November 28 2012, Marseille, France
Tel Aviv University, November 25 2012, Tel Aviv, Israel
University of Palermo, September 28 2012, Sicily, Italy
University of Liverpool, April 17 2012, Liverpool, UK
University of Strathclyde, April 16 2012, Strathclyde, UK
University of Zurich, March 13 2011, Zurich, Switzerland
National Taiwan University, November 4, 2011, Taipei, Taiwan
National Tsing-Hua University, November 2 2011, Taiwan
Academia Sinica, November 1st 2011, Taipei, Taiwan
The University California Santa Barbara, September 16 2010, Santa Barbara, USA
The University California Los Angeles, September 2 2010, Los Angeles, USA
The Scripps Research Institute, August 27 2010, San Diego, USA

California Institute of Technology, August 20, 2010, Pasadena, USA
The Weizmann Institute of Sciences, March 16 2010, Rehovot, Israel
Institut European de Chimie et de Biologie, February 12 2010, Bordeaux, France
University Paris-Descartes, Paris V, January 11 2010, Paris, France
Hebrew University of Jerusalem, May 6 2009, Jerusalem, Israel
ETH, February 17 2009, Zurich, Switzerland
AstraZeneca, December 2nd 2008, Lund, Sweden
Technical University of Denmark, December 1st 2008, Copenhagen, Denmark
Bar-Ilan University, July 9 2008, Ramat Gan, Israel
University of Ben-Gurion, March 31 2008, Beer Sheva, Israel
Institut Catala d'Investigacio Quimica, January 11 2008, Tarragona, Spain
University Joseph Fourier, December 4 2007, Grenoble, France
Czech Academy of Science, November 26 2007, Prague, Czech Republic
University Louis Pasteur, October 19 2007, Strasbourg, France
RWTH Aachen, September 18 2007, Aachen, Germany
Technische Universitaet Berlin, May 7 2007, Berlin, Germany
Sanofi-Aventis, November 10 2006, Frankfurt, Germany
Boehringer Ingelheim, August 14 2006, Montreal, Canada
Sherbrooke University, July 26 2006, Sherbrooke, Canada
University of Laval, June 28 2006, Quebec, Canada
Pittsburgh University, June 22 2006, Pittsburgh, USA
Mc Gill University, June 16 2006, Montreal, Canada
Merck-Frosst Center for Therapeutic Research, May 18 2006, Kirkland, Canada
ENSCP/Institut Curie/ESPCI, February 28 2006, Paris France
The Weizmann Institute of Science, December 20 2005, Rehovot, Israel
University Catholique de Louvain La Neuve, November 23 2005, Louvain La Neuve, Belgium
University Notre Dame de La Paix, November 22 2005, Namur, Belgium
ETH, May 9 2005, Zurich, Switzerland
University de Montreal, February 11 2005, Montreal, Canada
Queen's University, February 8 2005, Kingston, Canada
Technion-Israel Institute of Technology, November 25 2004, Haifa, Israel
Imperial College, London, October 19 2004, London, UK
University of Bristol, October 18 2004, Bristol, UK
University of Oxford, October 15 2004, Oxford, UK
University of York, October 14 2004, York, UK
University of Manchester, October 13 2004, Manchester, UK
University of Sheffield, October 12 2004, Sheffield, UK
University of Leeds, October 11 2004, Leeds, UK
Bar-Ilan University, June 3rd 2004, Ramat Gan, Israel
Pittsburgh University, March 31 2004, Pittsburgh, US
Berkeley University of California, March 23 2004, Berkeley, USA
Ludwig-Maximilian-University, November 17 2003, Munich, Germany
Universidad de Alicante, October 24 2003, Spain

Universidad Autónoma de Madrid, October 23 2003, Madrid, Spain
Geneva University, February 6 2003, Geneva, Switzerland
Bern University, February 5 2003, Bern, Switzerland
University Paris South, February 4 2003, Orsay, France
University Pierre et Marie Curie, February 3rd 2003, Paris, France
Tel Aviv University, November 10 2002, Tel Aviv, Israel
Boston College, July 2nd 2002, Boston, USA
University of Pennsylvania, June 28 2002, Philadelphia, USA
Johns Hopkins University, June 27 2002, Baltimore, USA
Pittsburgh University, June 25 2002, Pittsburgh, USA
University of Reims, June 21 2002, Reims, France
University Catholic of Louvain, February 16 2002, Louvain-La-Neuve, Belgium
Ecole Superieure de Chimie de Clermont-Ferrand, February 12 2002, Clermont-Ferrand, France
Ludwig-Maximilian-University, September 19 2001, Munich, Germany
Hebrew University of Jerusalem, May 24 2000, Jerusalem, Israel
Institut fur Organische, May 9 2000, Braunschweig, Germany
Institut fur Organische Chemie der Georg-August-Universitae, May 8 2000, Gottiengen, Germany
Serono Pharmaceutical Research Institute, May 5 2000, Geneva, Switzerland
Technion- Israel Institute of Technology, May 16 2000, Haifa, Israel
Ecole Polytechnique, May 14 2000, Palaiseau, France
Ben-Gurion University, December 6 1999, Beer-Sheva, Israel
Tel Aviv University, March 27 1999, Tel Aviv, Israel
Marburg University, February 25 1999, Marburg, Germany
Bar Ilan University, November 25 1998, Ramat Gan, Israel
Frutarom, September 16 1998, Haifa, Israel
University of Rennes, June 25 1997, Rennes, France
Tokyo College of Pharmacy, June 11 1997, Tokyo, Japan
Tokyo Institute of Technology, June 10 1997, Tokyo, Japan
Okayama University, June 9 1997, Sapporo, Japan
Tokyo Science University, June 5 1997, Tokyo, Japan
Sankyo Company, June 4 1997, Tokyo, Japan
Kyoto Institute of Technology, June 3rd 1997, Kyoto, Japan
Kyoto University, June 2nd 1997, Kyoto Japan
Tokyo University, May 30 1997, Tokyo, Japan
Tokyo Institute of Technology, May 28 1997, Tokyo, Japan
Commissariat a l'Energie Atomique (CEA), April 1st 1997, Palaiseau, France
Technion-Israel Institute of Technology, December 18 1996, Haifa, Israel
Rouen University, December 5 1996, Rouen, France
Ecole Polytechnique, November 28 1996, Palaiseau, France
University Pierre et Marie Curie, April 15 1996, Paris, France
Ecole Superieur Chimie Industrielle Lyon, February 22 1996, Lyon, France
Namur University, January 25 1996, Namur, Belgium

Geneva University, January 19 1996, Geneva, Switzerland
 Firmenich, January 18 1996, Geneva, Switzerland
 Ecole Nationale Supérieure de Chimie Paris, November 14 1995, Paris, France
 Orsay University, October 24 1995, Saclay, France
 Synthelabo Research Company, October 19 1995, Bagneux, France
 Chatenay-Malabry University, May 4 1995, Chatenay-Malabry, France
 Ecole Polytechnique, February 2 1994, Palaiseau, France
 Ecole Normale Supérieure, June 21 1994, Paris, France
 Institut de Chimie des Substances Naturelles, October 27 1993, Gif/Yvette, France

Participation in organizing conferences

2023 Chairman of the 11th Asian-European Symposium on Metal-Mediated Organic Synthesis, February 6-8, Technion, Israel
 2022 Chairman of the 22th Tetrahedron Symposium, June 28-July 1st, Lisbon, Portugal
 2019 Schulich Symposium honoring the 60th birthday of Technion Distinguished Visiting Professor Amir Hoveyda
 2018 President of the 53rd Burgenstock Meeting, Brunnen. April 29-May 3rd. Switzerland
 2016 Schulich Symposium on New Concepts in Organic Synthesis, Technion-Israel Institute of Technology, Chairman
 2015 Chairman of the 6th EFMC International Symposium on Advances in Synthetic and Medicinal Chemistry, November 15-18, 2015, Rehovot, Israel
 2012 Schulich Symposium on New Concepts in Organic Synthesis, Technion-Israel Institute of Technology, Chairman
 2010 Schulich Symposium on New Concepts in Organic Synthesis, Technion-Israel Institute of Technology, Chairman
 2008 Schulich Symposium on Asymmetric Catalysis, Technion-Israel Institute of Technology, Chairman
 1999 Member of the organizing committee of the 68th Israel Chemical Society meeting.
 1999 First Israeli-French Meeting on Catalysis and Organometallic Chemistry. Paris, France, Chairman

Special professional activities

2019 12 hours courses on Organometallics in organic Synthesis at Ottawa University, Canada
 2015 12 hours courses on Organometallics in organic Synthesis at Osaka Prefecture University, Japan
 2012 12 hours courses on Organometallics in organic Synthesis at TEVA-India pharmaceuticals, Israel
 2011 12 hours courses on Organometallics in organic Synthesis at TEVA pharmaceuticals, Israel

- 2011 10 hours courses on Organometallic in Organic Synthesis, Ecole Superieure de Chimie de Montpellier
- 2011 26 hours courses on Organometallic in Organic Synthesis, The Weizmann Institute of Sciences
- 2010 10 hours courses on Organometallic in Organic Synthesis, Universite Paris-Descartes,
- 2007 6 hours course on Organozinc Derivatives in Organic Synthesis, Universite Louis Pasteur, Strasbourg France
- 2005 12 hours course on Organometallics in organic Synthesis, Louvain La Neuve, Belgium
- 2005 12 hours course on Asymmetric Synthesis at TEVA pharmaceuticals, Israel
- 2004 12 hours course of Organometallic Chemistry at the University of Clermont-Ferrand
- 2003 12 hours course of Organometallic Chemistry at the University of Clermont-Ferrand
- 2001 12 hours course of Organometallic Chemistry at the University of Clermont-Ferrand