N. Gabriel Lemcoff March 2018

CURRICULUM VITAE

- **Personal Details**

N. Gabriel Lemcoff
Date and place of birth: June 4th 1969, Buenos Aires, Argentina
Address telephone number at work: Chemistry Department, Ben-Gurion University of the Negev. 08-6461641
Address and telephone number at home: Kibbutz Yakum, 09-9524360.

- **Education**

B.Sc. - 1995 - Tel-Aviv University, Chemistry (Magna Cum Laude)

Ph.D.- 2002, Tel-Aviv University, Chemistry (Summa Cum Laude)
Name of advisor: Prof. Ben-Zion Fuchs
Title of thesis: "Novel Macromolecular Diacetal Systems"

- **Employment History**

Years: December 2015-

Full Professor

Ben-Gurion University of the Negev

Years: April 2011-November 2015

Associate Professor (Tenured)

Ben-Gurion University of the Negev

Years: August 2004- April 2011

Senior Lecturer

Ben-Gurion University of the Negev

Years: January 2002- August 2004

Postdoctoral Research Assistant

University of Illinois Urbana-Champaign; Department of Organic Chemistry,

Supervisor: Prof. Steven C. Zimmerman.

- **Professional Activities**

Positions in academic administration

2016-	University Superior Promotions Committee
2016-	Head of the NMR Committee
2012-	University Senate Member
2012-2017	University Senate Follow-up Committee
2012-2016	Head of Chemistry Department
2010-2012	Head of the Undergraduate Teaching Committee, Chemistry Department

2010-2012 Departmental Prizes Committee
2009-2013 Students' University Disciplinary Committee
2008-2012 Head of the NMR Committee
2005-2012 Undergraduate Teaching Committee

Professional functions outside universities/institutions

2017- Council of Higher Education Committee for Pre-Academic Chemistry Programs (Universities and Colleges)
2013- Steering Committee for the Chemistry "Marie Curie" Program for High School students in the Negev. (Institutions in the committee: City of Beer-Sheva, Rashi Foundation, Adama Agricultural Solutions Ltd., Chemistry Department BGU, Jusidman Program BGU).

Significant professional consulting

2007-2010 Consultant for Eden Oils on chemical transformations of jojoba oils.
2014-2015 Consultant for Teva Industries on chemical patent issues.
2016 Consultant for ICL Industrial Products (Bromine Chemicals)

Ad-hoc reviewer for journals

Reviewer for major chemistry journals, Main activities for:
ACS (JACS, JOC, Org. Lett., Organometallics, Inorg. Chem., Macromol., ACS Catalysis, etc.),
Willey (Angew. Chem., Adv. Syn. Cat., Chem. Eur. J., Eur. J. Org. Chem., Eur. J. Inorg. Chem., Chem. Asian J., J. Polym. Sci. Part A, etc.),
RSC (Chem. Comm., Chem. Science, Dalton Trans., Polym. Chem., RSC Adv, etc.) and others.

Membership in professional/scientific societies

1995-2001/2005- Israeli Chemical Society
1998-2001/2005- 2012 American Chemical Society

• Educational activities

(a) Courses taught

2005- 2009 Advanced Organic Chemistry Lab (3rd Year Students). 10 hours/week.
2007- Introduction to Chromatography (3rd Year + MSc Students) 2 hours/week.
2008-2010 Selected Chapters in Physical Organic Chemistry (Graduate Course). 3 hours/week.
2009-2011 Advanced Organic Chemistry (3rd Year + MSc Students). 3 hours/week.
2010-2016 Organic Chemistry Lab (2nd Year Students). 6 hours/week.
2010-2013 Organometallics (3rd Year + MSc Students) taught jointly with Prof. Ira Weinstock. 2 hours/week.
2010-2016 History, Methodology and Ethics in Science (3rd Year + Graduate Students). 1 hour/week.
2011-2016 Physical Organic Chemistry (3rd Year, 3 hours/week)
2015- Organic Chemistry 1 (Marie Curie Program for High School Students/ 4 hours/week)
2016- Advanced Organic Chemistry Lab (3rd Year Students). 10 hours/week.

(b) Research students

1- Eyal Tzur, 'Novel methods in olefin metathesis', PhD 2005-2010 (Summa Cum Laude).
Currently Senior Lecturer at Sami Shamoon College of Engineering.

2- Meital Shema-Mizrachi, 'Mass transfer and catalysis in dendrimers with boronic acid end-groups', MSc 2004-2006, PhD 2006-2012.
Currently Researcher, Chemistry Department, BGU.

3- Olga Iliashevsky, 'Synthesis, development and applications of supported dendritic macromolecules', MSc 2004-2006, PhD 2006-2011.
Currently Technician Position at Chemical Engineering, BGU.

4- Sarit Yerushalmi, 'Novel synthetic methods and studies of substituted, macrocyclic and dendrimeric quinones', MSc 2005-2007, Co-supervisor Prof. S. Bittner.
'Multivalent dendritic quorum sensing molecules', PhD 2007-2014, Co-supervisor Prof. Michael Meijler.
Currently Senior Chemist, Eden Oils, Hatzerim.

5- Yuval Vidavsky, 'Novel polymer structures by olefin metathesis', MSc 2005-2007, PhD 2008-2012.
Currently Postdoctoral Researcher, Cornell University.

6- Charles E. Diesendruck, 'Homo and hetero bimetallic N-heterocyclic carbene catalytic complexes' MSc 2005-2007, PhD 2007-2011.
Currently Assistant Professor, Chemistry Faculty, Technion.

7- Dvora Berkovich-Berger, 'Acetal dynamic combinatorial libraries', PhD 2005-2011
Currently Israel Chemicals Ltd., R&D.

8- Anna Aharoni, 'New methods in catalysis: Mass transfer with dendritic catalysts and development of latent ruthenium olefin metathesis catalysts', PhD 2005-2011
Currently Teva Pharmaceutical Industries, R&D.

9- Liron Amir, 'Design synthesis and electropolymerization of hybrid pyrrole based compounds for use in biosensors', MSc 2006-2009. Co-supervisor Prof. R. Marks

10- Monique Bassomo, 'Novel bolaamphiphilic vesicles from castor oil for targeted drug delivery', PhD 2008-2014. Co-supervisor Prof. Sarina Grinberg.
Currently, Lecturer University of Douala, Cameroon.

11- Yakov Ginzburg, "Organic nanoparticles by olefin metathesis", MSc 2009-2011, PhD 2011-2016
Currently OnTarget Chemistry, R&D.

12- Efrat Levin "Novel Thiol Reactions and Light Guided Processes", MSc 2009-2011, PhD 2011-2016
Currently OnTarget Chemistry, R&D.

13- Aviel Anavi "Trifluorothioether ligands for latent olefin metathesis and Novel Thiol Reactions", MSc 2009-2011
Currently, Postdoctoral Researcher, BASF, Heidelberg, Germany

14- Elisa Ivry "Asymmetric Ruthenium olefin metathesis catalysts", MSc 2011-2013, PhD 2013-

15- Illya Rozenberg "Polymeric Organic Nanoparticles", MSc 2011-2013, PhD 2013-

16- Danielle Butilkov "Dendritic Catalysts", MSc 2011-2013, PhD 2013-

17- Inbal Berkovich "Organometallic Nanoparticles", PhD 2013-2018, Currently Senior Technician Position in charge of NMR facilities at Ben-Gurion University of the Negev.

18- Or Eivgi "New Chromatic Orthogonal Processes", MSc 2013-2015, PhD 2015-

19- Victoria Kobernik "Organic Nanoparticles", MSc 2014-2017, PhD 2017-

20- Gal Segalovich "Novel Photosensitive Catalysis", MSc 2016-

21- Alexander Frenklah "DFT Analyses of Ruthenium Catalysts", PhD 2016- Co-supervisor Dr. Sebastian Kozuch

22- Noy Nechmand "Effective Molarity in Olefin Metathesis Reactions", MSc 2017

Postdoctoral Researchers

- Dr. Rajesh H. Tale, 2009-2010
- Dr. Sudheendran Mavila, 2012-2015, Currently Postdoctoral Researcher University of Colorado, Boulder.
- Dr. Sukdeb Saha, 2013-2016, Currently R&D, Polymer Section, Reliance Industries, Mombay, India.
- Dr. Revanath Sutar, 2014- (Joint with Dr. Ofer Reany)
- Dr. Stefano Guidone, 2015-2016
- Dr. Srinivas Samala, 2015-2016
- Dr. Amar Mohite, 2016- (Joint with Dr. Ofer Reany)
- Dr. Ravindra Phatake; 2017-
- Dr. Rajnikanth 2017 - (Joint with Dr. Ofer Reany)

Summary: 12 PhD graduates, 14 MSc graduates.
Current group: 6 PhD students, 2 MSc students, 3 Postdoctoral researchers.

• Awards, Citations, Honors, Fellowships

2011 Dean's Award for excellence in research

2008 Chairmen Innovative Work in Organometallic Chemistry Award, ICOMC XXIII, Rennes, France

1998 Intel Graduate Excellence Award, Tel-Aviv University.

1997 Trotzky Scholarship, Tel-Aviv University.

1994 Undergraduate Excellence Prize, Chaim Langzman (in memoriam) prize.

• **Scientific Publications**

H-index, 23. Sum of the times cited, 1578; without self-citations, 1365. (ISI Feb 2018)

1. Frische, K.[PD]; Greenwald, M.[S]; Ashkenazi, E.[S]; Lemcoff, N.G.[S]; Abramson, S.[C]; Golender, L.[C]; Fuchs B.[PI] "**New Supramolecular Hosts Systems. 4. Novel Diacetal Podands, Diazacrowns and Cryptands**" Tetrahedron Letters, **1995**, *36*, 9193-9196. (IF = 2.193, JR 26/59 – Q2, 23 citations)
2. Star, A.[S]; Lemcoff, N.G.[S]; Goldberg, I.[C]; Fuchs, B.[PI] "**A new class of heterobicyclic systems: dioxadiazadecalins**" Tetrahedron Letters, **1997**, *38*, 3573-3576. (IF = 2.193, JR 26/59 – Q2, 12 citations)
3. Star, A. [S]; Goldberg, I. [C]; Lemcoff, N.G. [S]; Fuchs, B.[PI] "**New supramolecular host systems. Part 11. The stereoisomeric diaminobutanediol and dioxadiazadecalin systems. Synthesis, structure, stereoelectronics, and conformation. Theory vs. experiment**" European Journal of Organic Chemistry, **1999**, *9*, 2033-2043. (IF = 2.834, JR 19/59 – Q2, 15 citations)
4. Grabarnik, M. [C]; Lemcoff, N.G.[S]; Madar, R. [S]; Abramson, S. [C]; Weinman, S.[T]; Fuchs, B.[PI] "**On Five- vs Six-membered Diacetal Formation from Threitol and the Intermediacy of Unusually Stable Protonated Species"** Journal of Organic Chemistry, **2000**, *65*, 1636-1642. (IF = 4.849, JR 8/59 – Q1, 12 citations)
5. Lemcoff, N.G. [S] and Fuchs, B.[PI] "**Toward Novel Polyacetals by Transacetalation Techniques: Dendrimeric Diacetals**" Organic Letters **2002**, *4*, 731-734. (IF = 6.579, JR 3/59 – Q1, 23 citations)
6. Abramson, S. [C]; Ashkenazi, E.[S]; Frische, K.[PD]; Goldberg, I. [C]; Golender, L.[C]; Greenwald, M.[S]; Lemcoff, N.G. [S]; Madar, R.[S]; Weinman, S.[T] and Fuchs B.[PI] "**Novel Podands and Macrocycles with Diacetal Tetraoxadecalin Cores**" Chemistry – A European Journal, **2003**, *9*, 6071-6082. (IF = 5.317, JR 29/166 – Q1, 5 citations)
7. Zimmerman, S.C.[PI]; Schultz, L.G.[S]; Lemcoff, N.G.[PD] "**Monomolecular imprinting: Synthetic hosts via molecular imprinting inside of dendrimers**" Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) **2003**, *44*, 466-467.(2 citations, Scifinder)
8. Zimmerman, S.C.[PI] and Lemcoff N.G.[PD] "**Synthetic hosts via molecular imprinting—are universal synthetic antibodies realistically possible?**" Chemical Communications, **2004**, *1*, 5-14. (IF = 6.319, JR 23/166 – Q1, 182 citations)
9. Lemcoff, N.G.[PD]; Spurlin, T.A.[S]; Gewirth, A.A.[C]; Zimmerman, S.C.[PI]; Beil, J.B.[S]; Elmer, S.L.[S] and Vandeveer, G.[S] "**Organic Nanoparticles whose Size and Rigidity is Finely Tuned by Cross-linking the End-Groups of Dendrimers**" Journal of the American Chemical Society, **2004**, *126*, 11420-11421. (IF = 13.858, JR 10/166– Q1, 53 citations)
10. Beil, J.B.[S]; Lemcoff, N.G.[PD] and Zimmerman, S.C.[PI] "**On the Nature of Dendrimer Cross-linking by Ring-Closing Metathesis**" Journal of the American Chemical Society, **2004**, *126*, 13576-13577. (IF = 13.858, JR 10/166– Q1, 39 citations)
11. Yerushalmi, S.[S]; Lemcoff, N.G.[PI] and Bittner, S.[PI] "**Synthesis of 8, 9, and 10-Membered Nitrogen Containing Quinone-Fused Heterocycles**" Synthesis, **2007**, 239-242. (IF = 2.65, JR 22/59 – Q2, 10 citations)
12. Berkovich, D.[S]; Abramson, S.[C]; Grabarnik, M.[C]; Golender, L.[C]; Dagan, S.[C]; Goldberg, I.[C]; Weinman, S.[T]; Lemcoff, N.G.[PI] and Fuchs, B [PI] "**Polythiacrown Macro- and Gigantocycles with Chiral Diacetal Cores**" European Journal of

Organic Chemistry, **2007**, *12*, 1957-1975. (IF = 2.834, JR 19/59 – Q2, 8 citations)

13. Elmer, S.L.[S]; Lemcoff, N.G.[C] and Zimmerman, S.C.[PI] "**Exploring the Reversibility of the Ring-Closing Metathesis Mediated Cross-linking of Dendrimers**" Macromolecules, **2007**, *40*, 8114-8118. (IF = 5.835, JR 5/86 – Q1, 13 citations)
14. Ben-Asuly A.[C]; Tzur E.[S]; Diesendruck C.[S]; Sigalov M.[C], Goldberg I.[C]; Lemcoff N.G.[PI] "**A Thermally Switchable Latent Ruthenium Olefin Metathesis Catalyst**" Organometallics, **2008**, *27*, 811-813. (10th Most Accessed Paper January-March 2008) (IF = 3.862, JR 8/46 – Q1, 105 citations)
15. Berkovich-Berger, D.[S] and Lemcoff, N.G.[PI] "**Facile Acetal Dynamic Combinatorial Library"** Chemical Communications, **2008**, *14*, 1686-1688. (IF = 6.319, JR 23/166 – Q1, 21 citations)
16. Kost, T.[S]; Sigalov, M.[C]; Goldberg, I.[C]; Ben-Asuly, A.[C] and Lemcoff, N.G.[PI] "**Latent Sulfur Chelated Ruthenium Catalysts: Steric Acceleration Effects on Olefin Metathesis"**, Journal of Organometallic Chemistry, **2008,** *693*, 2200-2203. (Top 20 Hottest Paper April-June 2008). (IF = 2.336, JR 17/46 – Q2, 66 citations)
17. Tzur, E.[S]; Ben-Asuly, A.[C]; Diesendruck, C.E.[S]; Goldberg, I.[C] and Lemcoff, N.G.[PI] "**Homodinuclear Ruthenium Catalysts for Dimer Ring-Closing Metathesis"**, Angewandte Chemie Int. Ed., **2008**, *34*, 6422-6425. (IF = 11.994, JR 13/166 – Q1, 33 citations)
18. Shema-Mizrachi, M.[S]; Aharoni, A.[S]; Iliashevsky, O.[S]; and Lemcoff N.G.[PI] "**Towards Control of Dendrimer Properties by Reversible Exchange of Termini: Synthesis and Characterization of Diverse Porphyrin Dendrimers**" Israel Journal of Chemistry, **2009**, *49*, 1-8. (Invited paper). (IF = 2.455, JR 71/166 – Q2, 3 citations)
19. Diesendruck, C.E.[S]; Vidavsky, Y.[S] Ben-Asuly, A.[C]; and Lemcoff, N.G.[PI] "**A Latent S-Chelated Ruthenium Benzylidene Initiator for Ring-Opening Metathesis Polymerization**" Journal of Polymer Science Part A: Chemistry, **2009**, *47*, 4209-4213. (IF = 2.952, JR 21/86 – Q1, 49 citations)
20. Iliashevsky, O.[S]; Amir, L.[S]; Glaser, R.[C]; Marks, R.[C] and Lemcoff N.G.[PI] "**Synthesis, characterization and protein-binding properties of supported dendrons**" Journal of Materials Chemistry, **2009**, *19*, 6616–6622. (IF = 6.626, JR 22/251 – Q1, 7 citations)
21. Ben-Asuly, A.[C]; Aharoni, A.[S]; Diesendruck, C. E.[S]; Vidavsky, Y.[S]; Goldberg, I.[C]; Straub, B. F.[C] and Lemcoff, N. G.[PI]; "**Photoactivation of Ruthenium Olefin Metathesis Initiators**" Organometallics, **2009**, *28*, 4652–4655. (IF = 3.862, JR 8/46 – Q1, 66 citations)
22. Diesendruck, C. E.[S]; Tzur, E.[S]; Ben-Asuly, A.[C]; Vidavsky, Y.[S]; Goldberg, I.[C]; Straub, B. F.[PI] and Lemcoff, N. G.[PI] "**Predicting the *Cis*-*Trans* Dichloro Configuration of Group 15-16 Chelated Ruthenium Olefin Metathesis Complexes: A DFT and Experimental Study**" Inorganic Chemistry, **2009**, *48*, 10819-10825. (IF = 4.857, JR 4/46 – Q1, 65 citations)
23. Diesendruck, C. E.; Tzur, E. and Lemcoff, N.G.[PI] "**The Versatile Alkylidene Moiety in Ruthenium Olefin Metathesis Catalysts**" Invited Microreview for the European Journal of Inorganic Chemistry, **2009**, *28*, 4185-4203. (*Cover Page*). (IF = 2.444, JR 13/46 – Q2, 69 citations)
24. Sigalov, M.[PI]; Lemcoff, N.G.[C]; Shainyan, B.[C]; Chipanina, N.[C]; and Aksamentova T.[C] "**Enol Forms of 1,3-indandione, Their Stabilization by Ionic Hydrogen Bonding and Zwitter-ion Assisted Interconversion**" European Journal of Organic Chemistry, **2010**, *14*, 2800-2811. (IF = 2.834, JR 19/59 – Q2, 8 citations)

25. Berkovich-Berger, D.[S]; Lemcoff, N.G.[PI]; Abramson, S.[C]; Grabarnik, M.[C]; Weinman, S.[T]; and Fuchs, B.[PI] "**Oligomerization of 1,2-Ethanedithiol: An Expedient Approach to Oligothiaethylenethioglycols**" Chemistry – a European Journal, **2010**, *16*, 6365-6373. (IF = 5.317, JR 29/166 – Q1, 5 citations)
26. Diesendruck, C.E.[S]; Ben-Asuly, A.[C]; Goldberg, I.[C] and Lemcoff, N.G.[PI] "**Dimer Ring-Closing Metathesis**" *Invited contribution*, Chimica Oggi, **2010**, *28*, 15-18. (IF = 0.597, JR 143/166 – Q4, 3 citations)
27. Diesendruck, C.E.[S]; Iliashevsky, O.[S]; Ben-Asuly, A.[C]; Goldberg, I.[C] and Lemcoff, N.G.[PI] "**Latent and Switchable Olefin Metathesis Catalysts**" Macromolecular Symposia, **2010**, *293*, 33–38. (IF = 0.913, JR 40/77 – Q3, 25 citations)
28. Tzur, E.[S]; Goldberg, I.[C]; Ben-Asuly, A.[C]; Szadkowska, A.[S]; Makal, A.[S]; Woźniak, K.[S]; Grela, K.[PI] and Lemcoff N. G.[PI] "**Studies on Electronic Effects on O -, N- and S- Chelated Ruthenium Olefin Metathesis Catalysts**" Chemistry – a European Journal, **2010**, *16*, 8726-8737. (IF = 5.317, JR 29/166 – Q1, 50 citations)
29. Vidavsky, Y.[S] and Lemcof, N.G.[PI] "**Light-Induced Olefin Metathesis**" Beilstein Journal of Organic Chemistry, **2010**, *6*, 1106-1119. (IF = 2.337, JR 25/59 – Q2, 40 citations)
30. Aharoni, A.[S]; Vidavsky, Y.[S]; Diesendruck, C.E.[S]; Ben-Asuly, A.[C]; Goldberg, I.[C] and Lemcoff, N.G.[PI] "**Ligand Isomerization in Sulfur Chelated Ruthenium Benzylidenes**" Organometallics, **2011**, 1607-1615. (IF = 3.862, JR 8/46 – Q1, 39 citations)
31. Lexer, C.[S]; Burtscher, D.[S]; Perner, P.[S]; Tzur, E.[S]; Lemcoff, N.G.[PI] and Slugovc, C.[PI] "**Olefin Metathesis Catalyst Bearing a Chelating Phosphine Ligand**" Journal of Organometallic Chemistry, **2011**, *696*, 2466-2470. (IF = 2.336, JR 17/46 – Q2, 16 citations)
32. Ginzburg, Y.[S]; Anaby, A.[S]; Vidavsky, Y.[S]; Diesendruck, C.E.[S]; Ben-Asuly, A.[C]; Goldberg, I.[C] and Lemcoff, N.G.[PI] "**Widening the Latency Gap in Chelated Ruthenium Olefin Metathesis Catalysts**" Organometallics, **2011**, *30*, 3430-3437. (IF = 3.862, JR 8/46 – Q1, 40 citations)
33. Shema-Mizrachi, M.[S]; Pavan, G. M.[PD]; Levin, E.[S]; Danani, A.[C] and Lemcoff, N. G.[PI] "**Catalytic Chameleon Dendrimers**" Journal of the American Chemical Society, **2011**, 14359–14367. (13.858, JR 10/166 – Q1, 36 citations)
34. Vidavsky, Y.[S]; Anaby, A.[S] and Lemcoff, N.G.[PI] "**Chelating Alkylidene Ligands as Pacifiers for Ruthenium Catalysed Olefin Metathesis**" Dalton Transactions, **2012**, *41*, 32-43. (IF = 4.029, JR 7/46 – Q1, 74 citations)
35. Zakon, Y.[S]; Lemcoff, N.G.[C]; Marmur, A.[C] and Zeiri, Y.[PI] "**Adhesion of Standard Explosive Particles to Model Surfaces**" Journal of Physical Chemistry C, **2012**, *116*, 22815-22822. (IF = 4.536, JR 43/275 – Q1, 9 citations)
36. Levin, E.[S]; Anaby, A.[S]; Diesendruck, C.E.[S]; Berkovich-Berger, D.[S]; Fuchs, B.[C] and Lemcoff N.G.[PI] "**Oligomerisation Reactions of Beta Substituted Thiols in Water**" RSC Advances, **2013**, *3*, 1735-1738. (IF = 3.108, JR 59/166 – Q2, 3 citations)
37. Villalonga-Barber, C.[PI]; Vallianatou, K.[S]; Georgakopoulos, S.[PD]; Steele, B.R.[S]; Micha-Screttas, M.[S]; Levin, E.[S] and Lemcoff, N.G.[PI] "**Synthesis, characterisation, electronic spectra and electrochemical investigation of ferrocenyl-terminated dendrimers**" Tetrahedron, **2013**, *69*, 3885-3895. (IF = 2.651, JR 21/59 – Q2, 3 citations)
38. Mavila, S.[PD]; Diesendruck, C.E.[S]; Linde, S.[S]; Amir, L.[S]; Shikler, R.[C] and Lemcoff, N.G.[PI] "**Polycyclooctadiene complexes of rhodium(I): direct access to organometallic nanoparticles**" Angewandte Chemie Int. Ed., **2013**, *52*, 5767-5770. (IF = 11.994, JR 13/166 – Q1, 42 citations)

39. Melamed-Yerushalmi, S.[S]; Buck, M. E.[S]; Lynn, D. M.[C]; Lemcoff, N. G.[PI] and Meijler, M. M.[PI] "**Multivalent Attenuation of Quorum Sensing in Staphylococcus aureus**" Chemical Communications, **2013**, *49*, 5177-5179. (IF = 6.319, JR 23/166 – Q1, 8 citations)
40. Bai, Y [S]; Xing, H.[S]; Vincil, G. A.[S]; Lee, J.[S]; Henderson, E.[S]; Lu, Y.; Lemcoff, N.G.[C] and Zimmerman, S.C.[PI] "**Practical Synthesis of Water-soluble Organic Nanoparticles with a Single Reactive Group and a Functional Carrier Scaffold**" Chemical Science, **2014**, *5*, 2862-2868. (IF = 8.668, JR 17/166 – Q1, 24 citations)
41. Mavila, S.[PD]; Rozenberg, I.[S] and Lemcoff, N.G.[PI] "**A general approach to mono- and bimetallic organometallic nanoparticles**" Chemical Science, **2014**, *5*, 4196-4203. (IF = 8.668, JR 17/166 – Q1, 29 citations)
42. Tzur, E.[PI]; Ivry, E.[S]; Diesendruck, C.E.[C]; Vidavsky, Y.[S]; Goldberg, I.[C] and Lemcoff, N.G.[C] "**Stability and activity of cis-dichloro ruthenium olefin metathesis precatalysts bearing chelating sulfur alkylidenes**" Journal of Organometallic Chemistry, **2014**, *769*, 24-28. (IF = 2.184, JR 17/46 – Q2, 6 citations)
43. Butilkov, D.[S] and Lemcoff, N.G.[PI] "**Jojoba oil olefin metathesis: a valuable source for bio-renewable materials**" Green Chemistry, **2014**, *16*, 4728-4733. (IF = 9.125, JR 1/31 – Q1, 9 citations)
44. Eivgi, O.[S]; Levin, E.[S] and Lemcoff, N.G.[PI] "**Modulation of Photodeprotection by the Sunscreen Protocol**" Organic Letters, **2015**, *17*, 740-743. (IF = 6.732, JR 4/59 – Q1, 6 citations)
45. Ivry, E.[S]; Ben-Asuly, A.[C]; Goldberg, I.[C] and Lemcoff, N.G.[PI] "**Amino Acids as Chiral Anionic Ligands for Ruthenium Based Asymmetric Olefin Metathesis**" Chemical Communications, **2015**, *51*, 3870-3873. (IF = 6.319, JR 23/166 – Q1, 8 citations)
46. Levin, E.[S]; Mavila, S.[PD]; Eivgi, O.[S]; Tzur, E.[C] and Lemcoff, N.G.[PI] "**Regioselective chromatic orthogonality with light activated metathesis catalysts**" Angewandte Chemie Int. Ed., **2015**, *54*, 12384-12388. (IF = 11.994, JR 13/166 – Q1, 10 citations)
47. Levin, E.[S]; Ivry, E.[S]; Diesendruck, C.E.[C] and Lemcoff, N.G.[PI] **"Water in N-Heterocyclic Carbene Assisted Catalysis"** Chemical Reviews, **2015**, *115*, 4607-4692. (IF=47.928, JR 1/166 – Q1, 85 citations)
48. Saha, S.[PD]; Rozenberg, I.[S] and Lemcoff, N.G.[PI] **"Synthesis of Furanyl β-diketone Based Heteroleptic Ir(III) Complexes and Studies of Their Photo-Luminescence Properties"** Zeitschrift für Anorganische und Allgemeine Chemie, **2015**, 2460-2465, Invited Contribution (Special Issue, IF = 1.261, JR 31/46 - Q3).
49. Vidavsky, Y.[S]; Navon, Y.[S]; Ginzburg, Y.[S]; Gottlieb, M.[PI] and Lemcoff, N.G.[PI] **"Thermal properties of ruthenium alkylidene polymerized DCPD"** Beilstein Journal of Organic Chemistry, **2015**, *11*, 1469–1474. (Special Issue on Olefin Metathesis, IF=2.337, JR 25/59 – Q2, 6 citations).
50. Ewonkem, M. B.;[PI] Grinberg, S.;[C] Lemcoff, N. G.;[C] Shaubi, E.;[C] Linder, C.;[C] Heldman, E.[C] "**Newly synthesized bolaamphiphiles from castor oil and their aggregated morphologies for potential use in drug delivery**" Tetrahedron **2015**, *71*, 8557-8571. (IF = 2.651, JR 21/59 – Q2)
51. Mavila, S.[PD]; Eivgi, O.[S]; Berkovich, I.[S] and Lemcoff, N.G.[PI] **"Intramolecular Cross-linking Methodologies for the Synthesis of Polymer Nanoparticles"** Chemical Reviews, **2016**, *116*, 878-961. (IF=47.928, JR 1/166 – Q1, 89 citations)
52. Sutar, R. L.[PD]; Levin, E.[S]; Butilkov, D.[S]; Goldberg, I.[C]; Reany, O.[C] and Lemcoff, N.G.[PI] **"A Light Activated Olefin Metathesis Catalyst Equipped with a**

Chromatic Orthogonal Self-Destruct Function" Angewandte Chemie Int. Ed., **2016**, *55*, 764-767. (IF = 11.994, JR 13/166 – Q1, 8 citations)

53. Berkovich, I.[S]; Mavila, S.[PD]; Iliashevsky, O.[C]; Kozuch, S.[C] and Lemcoff, N.G.[PI] "**Single-chain polybutadiene organometallic nanoparticles: An experimental and theoretical study**" Chemical Science **2016**, *7*, 1773-1778. (IF = 8.668, JR 17/166 – Q1, 8 citations)
54. Saha, S.,[PD] Ginzburg, Y.,[S] Rozenberg, I.,[S] Iliashevsky, O.,[T] Ben-Asuly, A.[C] and Lemcoff, N.G.,[PI] **Cross-linked ROMP polymers based on odourless dicyclopentadiene derivatives**, Polymer Chemistry, **2016**, *7*, 3071-3075. (IF = 5.375, JR 6/86 – Q1, 4 citation)
55. Sengupta, S.;[PD] Loutaty, R.;[S] Petel, K.; [S] Levin, E.; [S] Lemcoff, N. G.;[C] Golan, Y.[PI] **The effect of short chain thiol ligand additives on chemical bath deposition of lead sulphide thin films: the unique behaviour of 1,2-ethanedithiol**, CrystEngComm, **2016**, *18*, 9122-9129.(IF = 3.849, JR 38/163 – Q1)
56. Reany, O.;[PI] Lemcoff. N.G.[PI] **Light Guided Chemoselective Olefin Metathesis Reactions**, Pure and Applied Chemistry, **2017**, *89*, 829–840. (IF – 2.626, JR 67/166 – Q2, 1 citation) *Invited Contribution for Special Issue*
57. Eivgi, O.;[S] Sutar, R.;[PD] Reany, O.[C] and Lemcoff, N.G.[PI] **Bichromatic Photosynthesis of Coumarins by UV-Filter Enabled Olefin Metathesis**, Advanced Synthesis & Catalysis, **2017**, *359*, 2352–2357. (IF = 5.65, JR 2/72 – Q1, 2 citations)
58. Butilkov, D., Frenklah, A., Rozenberg, I., Kozuch, S. and Lemcoff, N.G., **Highly Selective Olefin Metathesis with CAAC-Containing Ruthenium Benzylidenes**, ACS Catalysis, **2017**, *7*, 7634–7637. (IF = 10.61, JR 11/146 – Q1)
59. Eivgi, O. and Lemcoff, N.G., **Turning the Light On: Recent Developments in Photoinduced Olefin Metathesis**, Synthesis, **2018**, *50*, 49-63. (IF = 2.65, JR 22/59 – Q2, 2 citations)
60. Ivry, E., Frenklah, A., Ginzburg, Y., Levin, E., Goldberg, I., Kozuch, S., Lemcoff, N.G. and Tzur, E., **Light- and Thermal-Activated Olefin Metathesis of Hindered Substrates**, Organometallics, **2018**, *37*, 176-181. (IF = 3.862, JR 8/46 – Q1)
61. Sutar, R.L., Eivgi, O., Sen, S., Segalovich, G., Schapiro, I., Reany O. and Lemcoff, N.G., **Guiding a Divergent Reaction by Photochemical Control: Bichromatic Selective Access to Levulinates and Butenolides**, Chemical Science, **2018**, *9*, 1368-1374. (IF = 8.668, JR 17/166 – Q1)

Book Chapters:

1. Ginzburg, Y.; Lemcoff, N.G., **Hoveyda Type Olefin Metathesis Complexes** (pp. 437-451), Olefin Metathesis Theory and Practice, Edited by Karol Grela, **2014**, John Wiley & Sons.
2. Mavila, S.; Lemcoff, N.G., **N-Heterocyclic Carbene-Ruthenium Complexes: A Striking Breakthrough in Metathesis Reactions** (pp. 307-340), N-Heterocyclic Carbenes - Effective Tools for Organometallic Synthesis, Edited by Steven P. Nolan, **2014**, Wiley-VCH Verlag GmbH & Co. KGaA.
3. Tzur, E.; Lemcoff, N.G., **Latent Ruthenium Olefin Metathesis Catalysts For ROMP** (pp. 283-312), Handbook of Metathesis, 2nd Edition, Volume 3, Edited by Robert H. Grubbs and Ezat Khosravi, **2015**, Wiley-VCH Verlag GmbH & Co. KGaA.
4. Berkovich, I.; Kobernik, V.; Guidone, S.; Lemcoff, N.G., **Metal Containing Single-Chain Nanoparticles** (pp. 217-257), Single-Chain Polymer Nanoparticles:

Synthesis, Characterization, Simulations, and Applications, Edited by Pomposo, J. A., **2017**, Wiley-VCH Verlag GmbH & Co. KGaA.

• **Lectures and Presentations at Meetings and Invited Seminars**

Invited lectures at conferences/meetings

February, 2005	70th Israel Chemical Society Meeting, Tel-Aviv, Israel
	"Intramolecular Cross-links in Dendrimers"
April, 2005	COST WG meeting, Bonn, Germany
	"Conceiving Macrocyclic, Polymeric and Dendrimeric Systems with Chiral Diacetal Type Cores"
May, 2005	Minerva workshop, Ohalo, Israel
	"Organic Nanoparticles by Intramolecular Cross-links in Dendrimers"
May, 2007	Sackler Award Lecture, Tel-Aviv, Israel
	"Bimetallic Ruthenium Olefin Metathesis"
February, 2008	73rd Israel Chemical Society Meeting, Jerusalem, Israel
	"A Switch on Olefin Metathesis"
May, 2008	COST WG meeting, University of Twente, Netherlands
	"Acetal Dynamic Combinatorial Libraries"
July, 2008	38th International Conference on Coordination Chemistry, Jerusalem
	"Olefin Metathesis Switches"
February, 2009	74th Israel Chemical Society Meeting, Tel-Aviv, Israel
	"Dimer Ring Closing Olefin Metathesis"
July, 2009	10th FIGIPAS Meeting in Inorganic Chemistry, Palermo, Italy
	"Dimer Ring Closing Reactions"
August, 2009	ISOM XVIII (Olefin Metathesis), Leipzig, Germany
	"Latent and Switchable Ruthenium Olefin Metathesis Catalysts"
January, 2010	75th Israel Chemical Society Meeting, Tel-Aviv, Israel
	"Olefin Metathesis: An Extraordinary Reaction"
May, 2010	International Conference on Systems Chemistry, Dead Sea, Israel
	"New Reactions with Thiols. An Original Entry to Dynamic Combinatiorial Chemistry?"
June, 2010	Israel Polymer and Plastics Society Meeting, Beer-Sheva, Israel
	"Novel polymerization methods: ring-opening metathesis polymerizations and the use of latent catalysts"
April, 2011	EICC-1: First EuCheMS Inorganic Chemistry Conference Manchester, UK.

	"Pacifying Ruthenium Olefin Metathesis Catalysts with Sulfur Chelates"
July, 2011	ISOM IXX (Olefin Metathesis), Rennes, France
	"Insights on cis-dichloro ruthenium alkylidenes as olefin metathesis catalysts"
December, 2011	Frontiers in Organic Chemistry – Italy-Israel Conference, Tel-Aviv "Pacifying Ruthenium Olefin Metathesis Catalysts with Sulfur Chelates"
August, 2012	244th American Chemical Society Meeting, N-Heterocyclic Carbenes in Catalysis Symposium, Philadelphia, USA
	"New Methodologies in Olefin Metathesis: Dimer Ring Closing Reactions and Switchable Catalysts"
February, 2013	78th Meeting of the Israel Chemical Society, Tel-Aviv, Israel.
	"New Methdologies in Olefin Metathesis"
June, 2013	8th International Dendrimer Symposium, Madrid, Spain.
	"Catalytic Chameleon Dendrimers"
August, 2013	15th Asian Chemical Congress, Singapore.
	"Using NHCs for Novel Ru Olefin Metathesis and Materials"
February, 2014	Functional Polymeric Materials Conference, Cancun, Mexico. "Organometallic Nanoparticles"
September, 2014	1st Sino-Israel Bilateral Workshop and International Symposium on Organometallics and Homogeneous Catalysis, Beijing, China. "Organometallic Nanoparticles"
February, 2015	80th Meeting of the Israel Chemical Society, Tel Aviv, Israel.
	"Organometallic Nanoparticles"
May, 2015	Plenary Speaker at the 7th Cristofor I. Simionescu Symposium "Frontiers in Macromolecular and Supramolecular Science," May 31-June 7, Romanian Academy in Bucharest and "Petru Poni" Institute of Macromolecular Chemistry in Iasi (2 Lectures).
	"From Olefin Metathesis to Organometallic Nanoparticles; A Journey in Chemical Discovery"
December, 2015	44th annual meeting of the Israel Polymer and Plastics Society, Jerusalem, Israel
	"Light Activated ROMP Catalysts and Polymers: From Basic Science to Applications"
February, 2016	The 81st Annual Meeting of the Israel Chemical Society, Tel-Aviv, Israel.
	"Guiding Chemistry with Light"
June, 2016	"Schulich Symposium on Recent Advances in Organic Synthesis", Haifa, Israel. Plenary Lecture.
	"How Slow (Latent) Catalysts Became (more) Useful by Using Light"

June, 2016	"Agilent Symposium on Uses of GC and GC-MS", Beer-Sheva, Israel
	"GC-MS in Modern Chemical Research: An Instrumental Instrument"
November, 2016	"NSFC-ISF Workshop – Frontiers of Molecular Design: Synthesis and Catalysis", Technion, Israel
	"Modifying Ruthenium Olefin Metathesis Catalysts to Achieve New Reactivities"
July, 2017	ISOM XXII (Olefin Metathesis), Zurich, Switzerland
	"Olefin Metathesis and Light"
March, 2018	Functional Polymers, San Sebastian Spain
	"Organometallic nanoparticles: how they came to be, where they are now and where they might go"

Seminar presentations at Universities and Institutions

November, 2005	Bar-Ilan University, Israel
December, 2005	Technion, Israel
February, 2006	Chemada Inc., Israel
May, 2006	Weizmann Institue, Israel
March, 2007	University of Buenos Aires, Argentina
April, 2007	Tel-Aviv University, Israel
June, 2007	Hebrew University of Jerusalem, Israel
July, 2007	University of Utah, United States of America
May, 2008	University of Heidelberg, Germany
November, 2008	Biotechnology Department, BGU, Israel
December, 2008	Institute of Chemical Research of Catalonia (ICIQ), Tarragona, Spain
December, 2008	Laboratoire de Chimie de Coordination CNRS, Toulouse, France
September, 2009	University of Buenos Aires, Argentina
March, 2010	University of Cadiz, Spain
March, 2010	Instituto de Investigaciones Quimicas, CSIC, Sevilla, Spain
May, 2010	Casali Institute, Hebrew University of Jerusalem
March, 2011	University of Illinois, Urbana-Champaign, USA
March, 2011	Purdue University, USA
March 2011	University of Illinois, Chicago, USA
June 2012	Bar Ilan University, Israel
November 2013	Tel-Aviv University, Israel

October 2014	University of Illinois, Urbana-Champaign, USA
November 2014	University of Sussex, England
November 2014	Durham University, England
November 2014	University of Edinburgh, Scotland
November 2014	University of Strathclyde, Glasgow, Scotland
November 2014	University of St. Andrews, Scotland
October 2015	Institut für Anorganische und Analytische Chemie Westfälische Wilhelms-Universität Münster, Germany
December 2015	Technion Institute of Technology, Israel
April 2016	University of Illinois, Urbana-Champaign, USA
October 2016	Technische Universität Braunschweig, Braunschweig, Germany
August 2017	University of Illinois, Urbana-Champaign, USA
August 2017	Georgetown University, Washington DC, USA
February 2018	University of Maryland, College Park, USA

• Patents

1. Vidavsky, Y.; Aharoni, A. and Lemcoff, N.G. Filed P-9965-USP//Title: Artificial marble and methods. App. No. 61/016,582 **2008**.
2. Ben-Asuly, A. and Lemcoff, N.G. Sulfur chelated ruthenium compounds useful as olefin metathesis catalysts. U.S. Pat. Appl. Publ. **2010**, US 2010113722 A1 20100506.
3. Vidavsky, Y.; Yudovin-Farber, I.; Saha, S.; Ginzburg, Y.; Ben-Asuly, A. and Lemcoff, N.G. Filed Three-Dimensional Inkjet Printing Using Dicyclopentadiene Compounds Polymerizable By Ring-Opening Metathesis Polymerization. PCT Int. Appl. **2017** WO 2017068590 A1 20170427.
4. Saha, S.; Ginzburg, Y.; Ben-Asuly, A. and Lemcoff, N.G. Filed Dicyclopentadiene Derivatives and Polymers Thereof. PCT Int. Appl. **2017** WO 2017068588 A1 20170427.

• Research Grants (US$) - N. G. Lemcoff Principal Investigator

2004	Toman Start-up Grant. (140,000)
2005-2008	Israel Science Foundation, Personal Research Grant (180,000)
2006	Israel Science Foundation, New Faculty Equipment Grant (128,000)
2005-2008	Industrial Research Grant, Caesar Stone (46,000)
2005-2007	Binational Science Foundation Start-up Grant (Israel-USA) (60,000) In collaboration with Prof. Illya Zharov, University of Utah
2007-2008	German-Israeli Foundation, Young Scientist Grant (32,000)
2008-2010	Edmond J. Safra Research Grant (2,000,000) In collaboration with Gonen Ashkenasy, Michael Meijler, Ashraf Brik, Nurit Ashkenasy and Lital Alfonta, Ben-Gurion University of the Negev
2009-2011	Mafat Research Grant (73,000) In collaboration with Prof. Yuval Golan and Dr. Amir Berman, BGU
2009	ISF Institutional Equipment Grant (480,000) for purchase of NMR In collaboration with Prof. Daniel Kost and Prof. Ira Weinstock, BGU
2008-2009	Industrial Research Grant, Eden Oils (40,000), with Prof. Sarina Grinberg
2009-2013	Israel Science Foundation, Personal Research Grant (235,000)
2014	Bromine Chemicals (ICL) Industrial Research Grant (15,000)

2011-2015	Binational Science Foundation (188,000), with Prof. Steven C. Zimmerman
2011-2015	US Army and MAFAT Research Grants (140,000), In collaboration with Prof. Yuval Golan and Dr. Amir Berman, BGU
2014-2015	Makhteshim-Agan (Adama) Industrial Research Grant (20,000)
2014-2017	Printel Magnet – (~100,000 / y for our research group), in collaboration with Industry and Academia.
2013-2017	FTA Research Grant– (6,500,000), in collaboration with group of 12 researchers, project leader Prof. Gabby Sarusi
2014-2018	Israel Science Foundation, Personal Research Grant (320,000)
2015-2019	Binational Science Foundation (180,000), with Prof. Steven C. Zimmerman
2015-2018	FIRST Grant (Bikura), Israel Science Foundation (315,000), with Dr. Ofer Reany
2016	ISF Institutional Equipment Grant (314,000) for purchase of single crystal X-ray equipment. In collaboration with Prof. D. Pappo and Prof. I. Weinstock, BGU
2017-2019	Kamin Grant, Israel Innovation Authority (125,000/y)