

Moris S. Eisen
CURRICULUM VITAE

I.D.: 01754712/6

Date and place of birth: December 26, 1959; Colombia.

Date of immigration to Israel: June 17, 1977.

Military service: 1984 - 1985.

Marital status: married, 3 children.

Citizenship: Israeli.

Academic Degrees:

- 1982 B. Sc. in Chemistry (Suma Cum Laude), Hebrew University of Jerusalem, Israel.
- 1984 M.Sc. in Chemistry, Hebrew University of Jerusalem, Israel.
Supervised by Prof. Jochanan Blum.
- 1990 Ph.D. in Chemistry, Hebrew University of Jerusalem, Israel.
Supervised by Prof. Jochanan Blum.

Academic Appointments:

- 1982-1986 - Assistant in the Department of Organic Chemistry, The Hebrew University of Jerusalem, Israel.
- 1986-1990 - Instructor in the Department of Organic Chemistry, The Hebrew University of Jerusalem, Israel.
- 1990-1992 - Research Associate (Post - doc) Department of Chemistry, Northwestern University, Evanston IL, 60208, U. S. A.
- 1993- 1997 Lecturer at the Faculty of Chemistry, Technion Haifa 32000, Israel.
- 1997- 1999 Senior Lecturer at the Faculty of Chemistry, Technion Haifa 32000, Israel.
- 1999 – 2003 Associate Professor at the Faculty of Chemistry, Technion Haifa 32000, Israel.
- 2003- Present Full Professor at the Faculty of Chemistry, Technion Haifa 32000, Israel.
- 2006- Present Incumbent of the Samuel O. Friedlander Academic Chair
- 2008-2012 Dean of the Schulich Faculty of Chemistry

- 2013- 2016 Dean of Student at the Technion
- 2020- Dean of the Schulich Faculty of Chemistry

Administrative Posts

- 1995-present Inter-Departmental Polymer Science Committee.
- 1994-1999 Director of the Analytical Services at the Technion–Chemistry Department
- 1994-2001 Academic Director of the Glass–Blowing Shop at the Technion–Chemistry Department
- 1993-1994 Coordinator of the Chemical Club of the Faculty of Chemistry at the Technion.
- 1994-1999 Academic Coordinator of the Chemistry-Biology Science Library
- 1996-1999 Academic Coordinator for the Student-Faculty Committee
- 1997-1999 Representative in the Chemical Engineering Faculty Meetings
- 1999- 2002 Vice Dean of the Faculty of Chemistry for Graduate and Undergraduate Affairs
- 1999- 2001 Head of the Organic and Inorganic Chemistry Departmental Affairs
- 1999- 2001 Representative of the Technion - Faculty of Chemistry in the National Committee for Chemistry at the Ministry of Science and Culture.
- 2001-2005 Head of the Committee of the Technion Chemical Store.
- 2001-2005 Vice Dean of the Faculty of Chemistry for Graduate and Undergraduate Affairs.
- 2004-2007 Representative of the Technion at the Interuniversity Senate Committee.
- 2004-2009 Member of the Advisory Committee for the Technion Research and Development Foundation
- 2006-2009 Member of the Advisory Committee for the Samuel Neeman Institute for Advanced Studies at the Technion.
- 2004-present Head of the Institute of Catalysis Science and Technology at the Technion.

Membership in Scientific Associations and Editorial Boards:

1. Israel Chemical Society
2. American Chemical Society
3. ACS Inorganic Division
4. ACS Organic Division
5. Israel Catalytic Club
6. Editorial Board of Review of Inorganic Chemistry
7. Editorial Board of General Chemistry Journal

Honors and Awards

Dean's List (as one of the two best undergraduate students in chemistry consequently obtained full stipend for undergraduate studies. 1980 - 1982.

Saadia Amiel Prize for distinction in M.Sc. studies. 1984.

Rubin Bird Prize for special achievements in research and teaching in Natural Sciences. 1985.

Michael Landau Prize for distinction in Ph.D. studies. 1988.

California-Hebrew University Reciprocity Fellowship. 1989.

Chaim Weizmann Institute Fellowship for postdoctoral studies. 1990.

Alon Fellowship. 1992-1995.

Zvi and Zahava Freinderberg Fund awarded by the Israel National Science Foundation (INSF) 1994-1997.

Minerva Traveling Fellowship (1996)

Mitchel-Soref Research Award (1999)

Alexander Goldberg Excellence in Research Award. (1998-1999)

Herschl Rich Technion Innovation Award (1999-2000)

Henri Gutwirth Fund for the Promotion of Research (1999-2000)

L. Meitner, A. v. Humboldt Prize for Research (Given by the Germany Humboldt Foundation) (2000-2001)

Mitchel Soref Research Award 2001-2002.

Henry Taub Research Prize Award 2002-2003

ECUST Chemistry Professor Guest Research Award China 2009.

Alexander v. Humboldt Research Prize (Given by the Germany Humboldt Foundation) (2012)

Uzi and Michal Halevy Innovative Applied Engineering Award (2013-2014)

Excellence Teaching Technion Yanai Prize (2013)

Excellence Teacher Award Spring Semester (2015)

Excellence Teacher Award Spring Semester (2016)

Excellence Teacher Award Winter Semester (2017)

KAIST, Deep Training Program Award, 2018, Korea.

Excellence Teacher Award Spring Semester (2018)

Names of Graduate Students:

Studies Completed:

- | | | | |
|---------------|--------|--------------|----------------------------------------------------------------------------------------------------------------------------|
| A. Haskel. | M. Sc. | 1993-1995 | Synthesis and Catalytic Reactivity of Organometallic Actinide Complexes. |
| D. Herscovics | M. Sc. | 1993-1996 | Synthesis of Organometallic Compounds Containing Heteroallylic Ligands. |
| V. Volkis. | M. Sc. | 1993-1996 | Synthesis of Organoactinide Complexes with Boron Containing Ligands. |
| R. Anati | M. Sc. | 1993 - 1997 | Coordination Chemistry of the Pentamethylcyclopentadienyl Rhodium Aqua Complex |
| C. Averbuj | Ph. D | 1994 - 1998 | Group IV and f-Element Organometallics in Homogeneous Catalysis |
| T. Shribman | M. Sc. | 1995 - 1998 | Heterobimetallic Bridged Transition Metal Complexes as Efficient Catalysts for Homogeneous α -Olefin Polymerization |
| M. Shmulinson | M. Sc. | 1995 - 1999 | Organometallic Complexes with Heteroallylic Ligands: New Types of Homogeneous Catalysts. |
| V. Volkis. | Ph. D. | 1996 - 2000. | Benzamidinate Complexes as Active Catalysts for the Polymerization of α -Olefin and Silanes. |
| D. Plat | Ph. D. | 1996 - 2000. | The Reactivity of Group IV Aminophosphine Complexes. |

- T. Gueta-Neyroud M. Sc. 1996 - 2000. Controlling the Reactivity of Organoactinide Complexes in Catalytic Processes.
- E. Shaviv M. Sc. 1998 – 2000. Heteroallylic Early Transition Metal Complexes.
- Ylia Gurevich M. Sc. 1998 - 2001. Catalytic Processes Promoted by Organoactinide Complexes.
- Elena Smolensky M. Sc. 2000 – 2003. Development of New Catalysts for the Polymerization of Olefins.
- Gil Navon M. Sc. 2001 –2003. Structure-Property Relationships for Propylene Catalyzed by Organometallic Complexes.
- E. Tish Ph. D. 1997 – 2004. Chiral Organometallic Complexes Containing Heteroallylic Ligands and their Activity as Homogeneous Catalysts.
- M. Shmulinson Ph. D. 1999 - 2004 Catalytic Activity of Group 4 Octahedral Complexes.
- Dina Avinur M. Sc. 2001 – 2004 Organometallic Complexes for the Polymerization and Copolymerization of Polar Olefins.
- T. Andrea M. Sc. 2001 –2003 Catalytic Effect in Opening the Coordination Sphere of an Organo-f-complex.
- Eyal Barnea Ph. D. 2001 – 2006. Catalyzing New Processes with Organoactinide Complexes.
- Elza Nelkenbaum Ph. D. 2000 – 2005. Catalytic Activity of Novel Organometallic Complexes.
- Natalia Vainrob M. Sc. 2003- 2006. Synthesis of Membranes for Desalination Processes.
- Florina Gornshtein M. Sc. 2003-2006. Diketamidinate Complexes. Dynamic Processes and their Activity in the Polymerization of Propylene.
- T. Gueta-Neyroud Ph. D. 2000 – 2007. Immobilization of Homogeneous Complexes and their Catalytic Activity in the Polymerization of α olefins.
- Elena Smolensky Ph. D. 2003 – 2007. Dynamic Heteroallylic Complexes in Organic Chemistry Transformations.
- Ella. Shaviv Ph. D. 2001 – 2007. Early Transition Metal Complexes Containing Oxygen and Nitrogen Based Ligands in the Polymerization of Olefins.
- Tamer Andrea Ph. D. 2003 – 2008. Organoactinide Complexes Containing Cp and Non Cp Ligands: Synthesis and Reactivity.
- Naama Korin M. Sc. 2007-2008. Dendritic Polymers. A Route to Drug Delivery System.

- Dina Avinur Ph. D. 2004-2011. Group 4 Organometallic Complexes in the Synthesis of Co-Polymers.
- Aharonovich Sinai Ph. D. 2003-2010. Hetero-aza-allyl Complexes of Li, Ti, Zr, and V: Structure, Reactivity and Catalytic Propylene Polymerization
- Nerovny Anastasia M. Sc. 2006-2009. Membranes for Ultra Filtration: Synthesis and Performance.
- Elena Rabinovich M. Sc. 2006-2009. Organoactinide Aryl-Amidinate Complexes.
- Shoken Dana M. Sc. 2007-2010. Olefin Polymerization and Copolymerizations Catalyzed by Titanium Complexes.
- Bussi Yonit M. Sc. 2007-2011. Functionalized Polystyrene Based Membranes.
- Sermili Sarit M. Sc. 2007-2010. Graft Copolymers Based on PDVF and their Use as Filtration Membranes.
- Haneen Yamin M. Sc. 2008-2011. Synthesis of New Catalysts for Polymerization Reaction.
- Andrey Torotko M. Sc. 2008-2010. Preparation of New Group 4 Amidinate and Triazenide Complexes and their Activity in the Polymerization of α -olefins.
- Green Omer 2007-2009 (Left the Technion)
- Ozeri Inbal 2008-2011 M.Sc. New Polysulfone Membranes in Ultrafiltration.
- Moshe Moshonov 2008- 2011 M.Sc. Catalytic Copolymerization of Olefins.
- Shiran Hertz 2010- 2012 M.Sc. Polymers for Trapping Materials
- Sivan Yemin 2006-M.Sc-2013 (External) Copolymers with Unique Mechanical Properties.
- Naama Korin 2008-2015 Ph.D. Trapping of Uremic Toxins.
- Yelkin Tatiana 2007- 2015 Ph. D. Olefin Polymerization with Fluorinated Amidinate Complexes.
- Isabell Sara Karmel 2010-2015 Ph. D. Synthesis of Organoactinide Complexes Containing n-Donor Ligands and their Application in Homogeneous Catalysis.
- Rami Beatrice 2010-2015 Ph. D. Catalytic Processes Mediated by Organoactinide Complexes
- Shoken Dana 2010-2016 Ph. D. Imidazolin-2-Iminato Complexes and Catalysis Reactions
- Ayal Resnik 2012- 2015 M. Sc. Activation of Crosslinked Polyethylene for Future Uses.
- Adam Brill 2014-2017 M.Sc. Organoactinides in Catalytic Reactions.

Alexandra Lubin 2014-2018 M. Sc. Synthesis, Characterization, and Catalytic Activity of Imidazolin-2-Iminato Zirconium Complexes

In Progress:

Max Khononov 2014- Ph.D (Direct Track). Imidazolin-2-Iminato Complexes of Hafnium

Alexandra Lubin 2018 –Ph.D. Low Valent Actinides, Synthesis and Catalytic Applications

Ozeri Inbal 2016- Ph.D. Perfluorinated Polymers.

Konstantin Makarov 2016- Ph.D (Direct Track) Synthesis of Imidazoline-iminato actinides complexes and their use in catalytic chemical transformations.

Shira Fachima 2019 (M. Sc.)

Hamudy Awad 2019 (M. Sc)

Names of Postdoctoral Fellows:**Completed:**

T. Straub. 1993 -1996

H. Mack 1994 - 1995

J. Quan Wang 1997 - 1998

M. Galan-Ferreres 1997 - 1999

J. Wang 1998 - 2000

A. Kumar-Dash 1997 - 1999

E. Nilkenbaum 1999 – 2000

B. Ray 1999 - 2000

Fa-Pu-Chen 1999 - 2002

X. O. Xavier 2001- 2003

A. Lisovski 1995 - 2005

V. Volkis 2000 –2006

Manash Sarmah 2005- 2006

Arun Isloor 2005- 2007

Manab Sharma	2006-2007
Manab Sharma	2006-2008
Georgepani Pani	2007-2008
Xia Chen	2007-2008
Zhao Pin	2008-2009
PangYang Qui	2008-2009
Jia-Sheng Zhang	2011-2012
Dandamudi V. Lenin	2011-2012
Naveen Kulkarni	2011-2013
Funny Petrova	2012-2013
Kamlesh Singh	2012-2013
Ras K. Das	2013-2014
Nilanjana Chowdhury	2013-2014
Michal Amar	2014-2015.
Rita Zats	2015-2016
Keren Stern	2015-2017
Dana Shoken	2016-2017
Naama Korin	2016-2017
Heng Liu	2015-2017
Tapas Ghatak	2014-2017
Mingyuan Li	2016-2017
Hila Toledo	2018-2019
Luca Malucelli	2018-2019
Lina Judkele	2017-2019
Amanpreet Kaur	2018-2019

In Progress:

Sayantani Saha 2016-
 Ksenia Kulbitski 2016-
 Hemanta Dekka 2018-

Teaching Excellence Through the Years:

Course	Semester	Grade	Year
		(max = 5.00)	
Inorganic 1	Fall	4.61	1993
Inorganic 1	Spring	4.71	1994
Inorganic 1	Fall	4.59	1994/5
Inorganic 1	Spring	4.70	1995
Organometallic	Spring	4.74	1995
Inorganic 2	Fall	4.61	1995/6
Basic Inor., 2	Spring	4.46	1996
Organometallic	Spring	4.56	1996
Basic Inorg. 1	Fall	4.73	1996/7
Basic Inorg. 2	Fall	4.73	1996/7
Organometallic	Spring	4.88	1997
Basic Inorg. 2	Fall	5.00	1997/8
Organic Chemistry 1.	Fall	4.89	1998 (Excellence Teacher)
Adv. Inor. Chem.	Spring	4.65	1998
Organic Chemistry 1.	Fall	4.54	1999
Advanced Inorganic Chemistry.	Spring	4.80	1999
Org. Chem. -Civil Eng.	Spring (SHERUT)	4.67	1999
Organic Chemistry 1.	Fall	4.68	2000
Advanced Inorganic Chemistry.	Spring	4.72	2000
Organic Chemistry 1.	Fall	4.60	2001

Organic Chemistry 1.	Fall	4.46	2002
Organic Chemistry 1.	Spring	4.08	2002
Organic Chemistry 1.	Fall	4.60	2003
Chemistry of Polymers	Fall	4.67	2003
Advanced Inorganic Chemistry	Spring	4.44	2003
Chemistry of Polymers	Fall	4.78	2004
Advanced Inorganic Chemistry	Spring	4.45	2004
Chemistry of Polymers	Fall	4.56	2005
Advanced Inorganic Chemistry	Spring	4.45	2005
Chemistry of Polymers	Spring	4.21	2006
Advanced Inorganic Chemistry	Spring	4.03	2006
Chemistry of Polymers	Fall	4.54	2007
Chemistry of Polymers	Fall	4.46	2008
Advanced Inorganic Chemistry	Spring	3.91	2008
Chemistry of Polymers	Fall	4.62	2009
Organic Chemistry 1	Fall	4.68	2010
Chemistry of Polymers	Fall	4.56	2011
General Chemistry	Fall	4.68	2012
(Technion Best Teacher awardee for the Semester)			
Principles of Chemistry A	Fall	4.54	2013
Chemistry of Polymers	Fall	4.27	2013
Organic Chemistry 1	Fall	3.93	2014
Organic Chemistry for Engineering	Spring	4.85	2015
(Technion Best Teacher awardee for the Semester)			
Organic Chemistry 1	Fall	4.70	2016
(Technion Best Teacher awardee for the Semester)			
General Chemistry	Fall	4.77	2017
(Technion Best Teacher awardee for the Semester)			
Organic Chemistry for Engineering	Spring	4.86	2018
(Technion Best Teacher awardee for the Semester)			

Significant Professional Projects.

1. Organizing committee of the "9th International Symposium on Homogeneous Catalysis" held in Jerusalem 21-26 August 1994.
2. Organizing committee of the "62nd Meeting of the Israel Chemical Society. Haifa-Technion, held in February, 1997.
3. Organizing and Steering committee of the "32^{èmes} Journées des Actinides Ein Gedi, Israel to be held in Ein-Gedi 19-22 March 2002.
4. Organizing committee of the "68nd Meeting of the Israel Chemical Society. Haifa-Technion, held in January, 2003.
5. Advisory Board of the International Conference on Hi-Tech Materials (ICHTM-2009) February 11th to 13, 2009 at the Vikramshila Complex, IIT Kharagpur
6. Organizer of the "4th Schulich Symposium on Organometallic Chemistry" held in the Technion May 10 2009.

Public Professional Activities:

1. Member of the Advisory Board for the National Journal "The Chemist in Israel" Since 1998-2005.
2. Member of the International Advisory Board for the Journal "Main Group Metal Chemistry" Since 1998-.
3. Member of the International Advisory Board for the Journal "Reviews in Inorganic Chemistry" Since 1997-.
4. Member of the Water Institute at the Technion.
5. Professional Controller for the Ministry of Science in the Field of Catalytic Polymerization.
6. Member of the National Committee for Chemistry at the Ministry of Education (1998-2005).

Research Grants:

1. The Israel Science Foundation - The Academy of Sciences and Humanities.
Equipment grants to purchase a glove-box system (Vacuum Atmospheres XE-540).
Period: 1993. Principal Investigator: M. S. Eisen. Amount 45,000 US\$. An additional sum of 60,000 US\$ was supplied by the Technion.
2. The Israel Science Foundation - The Academy of Sciences and Humanities.
Start-up equipment grants by the Alon fellowship.
Period: 1993. Principal Investigator: M. S. Eisen. Amount 30,000 US\$.
3. The Binational Science Foundation.
Grant title: "Synthesis Reactivity and Catalytic Studies of Group IV, Lanthanide and Actinide Imido Complexes".
Period 1993-1996. Principal Investigators: M. S. Eisen and T. J. Marks.
Amount 111,000 US\$.
4. The Deutsche Forschungsgemeinschaft Fonds.
Grant title: "f-Element Organometallics Containing Novel Fluorophospholoyl Ancillary Ligands: New Types of Homogeneous Catalysts".
Period: 1994 -1996 (last year will be optional). Principal Investigators: G. V. Rosenthaler (Bremen) and M. S. Eisen. Amount 20.000 DM.
5. The Israel Science Foundation - The Academy of Sciences and Humanities.
Grant title: "Heteroallylic Organometallic -f- Complexes : Novel types of Homogeneous Catalysts for Demanding Chemical Transformations".
Period 1994-1997. Principal Investigator: M. S. Eisen. Amount 90,000US\$
6. Ministry of Sciences and the Arts, Ministry of Niedersachsen.
Grant Title: "f - Element Organometallics Containing Heteroallylic Ligands: Novel types of Homogeneous Catalysts".
Period 1995-1997. Principal Investigators: M. S. Eisen and F. T. Edelman.
Amount 156.500 DM
7. Carmel Olefins
Grant Title: "Metallocenes as Catalyst for α -Olefin Stereoregular Polymerization".
Period 1995-1996. Principal Investigators: M. S. Eisen R. Semiat, Y. Cohen, A. Aharoni. Amount \$60,000.
8. The German Israel Science Foundation (GIF).
Grant title: "Early-Late Heterobimetallic Transition Metal Complexes: Novel Types of Homogeneous Ziegler-Natta Catalysts".
Period 1997-1999. Principal Investigators: M. S. Eisen and E. Hey Hawkins.
Amount 330,000 DM.
9. The Israel Science Foundation - The Academy of Sciences and Humanities.

- Grant title: "Controlling and Designing Catalytic Cycles Towards New Chemical Transformations Regulated by Organoactinide Complexes".
Period 1997-2000. Principal Investigator: M. S. Eisen. Amount 93,000US\$
10. Bayer AG Germany
Grant Title: "Organometallic Catalysts for the Elastomeric Formation of Polypropylene".
Period 1998-1999. Principal Investigators: M. S. Eisen Amount \$55,000.
 11. Vice-President of the Technion for Research Affairs Fund (Mitchel-Soref).
Grand Title: "Elastomeric Polymers by Novel Homogeneous Catalysts".
Period 1998-1999. Principal Investigators: M. S. Eisen \$25,000.
 12. Ministry of Science
Grand Title: "Unique Syntheses of Advanced Alloyed Polymers by Novel Homogeneous Catalysts".
Period 1998-2001. Principal Investigators: M. S. Eisen and R. Semiat Amount IS 525,000/year.
 13. Carmel Olefins
Grant Title: "New Organometallic Catalysts for the Fusion of Polymers at the Molecular Level: Novel Type of Alloyed Polymeric Materials".
Period 2001-2002. Principal Investigators: M. S. Eisen Amount \$43,000.
 14. Bayer AG Germany
Grant Title: "Organometallic Catalysts for the Elastomeric Formation of Polypropylene".
Period 1999-2000. Principal Investigators: M. S. Eisen Amount \$55,000.
 15. Ministry of Science
Grand Title: "Environmental Processes"
Period 2000-2003. Principal Investigators: M. S. Eisen and R. Semiat Amount IS 415,000/year.
 16. The German Israel Science Foundation (GIF).
Grant title: "Transition Metal Complexes: Novel Types of Homogeneous Ziegler-Natta Catalysts".
Period 2000-2003. Principal Investigators: M. S. Eisen and E. Hey Hawkins.
Amount 354,000 DM.
 17. Bayer AG Germany
Grant Title: "Organometallic Catalysts for the Elastomeric Formation of Polypropylene".
Period 2000-2001. Principal Investigators: M. S. Eisen Amount \$30,000 (6 months).
 18. Vice-President of the Technion for Research Affairs Fund (Mitchel-Soref).
Grand Title: "Advanced Materials by Novel Homogeneous Catalysts"
Period 2001-2002. Principal Investigators: M. S. Eisen
\$25,000.

19. The Israel Science Foundation - The Academy of Sciences and Humanities.
Grant title: "Designing and Tailoring of New Catalytic Processes Towards New Chemical Transformations Regulated by Organoactinide Complexes".
Period 2001-2004. Principal Investigator: M. S. Eisen. Amount /year 53,000US\$
20. European Community INTAS Program.
Period 2001-2004. Principal Investigators: E. Hawkins (Germany) M. S. Eisen (Israel) *et. al.* 9,000 Euro.
21. Ministry of Science: Magneton with Bromine Compounds.
Grand Title: "Polymers with Flame Retardant Properties".
Period 2004-2005. Principal Investigators: M. S. Eisen \$169,000/year.
22. Ministry of Science: NATAF Program.
Grand Title: "Nanometric Membranes for Desalination".
Period 2005-2005. Principal Investigators: M. S. Eisen \$30,000.
23. Foamade Company (USA)
Grand Title: "Elastomeric Polymers".
Period 2005-2005. Principal Investigators: M. S. Eisen \$25,000.
24. National Quality Care Inc NQCI
Grand Title: "Polymeric Membranes in Urea Removal from Dialysis Systems".
Period 2005-2006. Principal Investigators: M. S. Eisen \$35,000.
25. Pfizer/D-Cure.
Grand Title: "Quantification of Beta Cell Mass (BCM) via Imaging".
Period 2005-2008. Co-Principal Investigators: M. S. Eisen \$35,000/y.
26. The Binational Science Foundation.
Grand Title: "New Strategies Towards Elastomeric Polyolefins".
Period 2005-2009. Principal Investigators: M. S. Eisen and R. Waymouth. \$37,000/y.
27. The Israel Science Foundation - The Academy of Sciences and Humanities.
Grand Title: "Designing and Tailoring New Catalytic Processes Catalyzed by Organoactinide Complexes."
Period 2005-2009. Principal Investigators: M. S. Eisen \$70,000/y.
28. National Quality Care Inc. NQCI
Grand Title: "Polymeric Membranes in Urea Removal from Dialysis Systems".
Period 2006-2007. Principal Investigators: M. S. Eisen \$35,000.
29. Ministry of Science
Grand Title: "Polymeric Membranes for Desalination".
Period 2007-2009. Principal Investigators: R. Semiat, Y. Cohen, C. Dozoretz and M. S. Eisen \$ 250,000

30. Center for Security Science and Technology at the Technion
Grand Title: "Decontamination of Nerve Agents via Auto Catalytic Slow Release of the Decontaminating Agent as Compared to Photo Oxidation"
Period 2007-2010. Principal Investigator: Y. Dubowski, H. Bianco-Peled and M. S. Eisen \$300,000
31. Grand Water Research Funds
Membranes for Desalination with Functional Groups
Period 2007-2008. Principal Investigator: M. S. Eisen \$5,000
32. Horowitz Fund
Synthesis, Characterization and Application of Novel Membranes with Nanofiltration and Ultrafiltration Properties in the Desalination of Brackish Waters
Period 2007-2008. Principal Investigator: M. S. Eisen \$136,290
33. RBNI Fund
Upgrading Polymeric Lab
Period 2007. Principal Investigator: M. S. Eisen \$100,000
34. National Quality Care Inc NQCI
Grand Title: "Polymeric Membranes in Urea Removal from Dialysis Systems".
Period 2007-2008. Principal Investigators: M. S. Eisen \$30,000.
35. Israel Science Foundation BIKURA.
Facile Conversion of Oil, Polymers and Biomasses to Useful Hydrocarbons: Novel Concepts.
Period 2007-2010. Principal Investigator: M. Gandelman, M. Eisen \$ 135,000
36. Nahal Soreq.
Selective Trapping with Polymeric Membranes.
Period 2007-2008. Principal Investigator: M. S. Eisen. \$120,000
37. Niedersachsen-Israeli-Projects
Development of Homogeneous Organoactinide Catalysts with Superbasic Imidazolin-2-iminato Ligands.
Period 2008-2009. Principal Investigator: M. S. Eisen and Matthias Tamm Mann. 240,000 Euro
38. Horowitz Fund
Synthesis, Characterization and Application of Novel Membranes with Nanofiltration and Ultrafiltration Properties in the Desalination of Brackish Waters
Period 2008-2009. Principal Investigator: M. S. Eisen \$130,000
39. Nahal Soreq.
Selective Trapping with Polymeric Membranes.
Period 2009-2009. Principal Investigator: M. S. Eisen. \$60,000

40. The Binational Science Foundation.
Grand Title: "Designing new elastomeric polyolefins. From synthetic approaches to microstructure tailoring."
Period 2009-2011. Principal Investigators: M. S. Eisen and R. Waymouth.
\$30,000/y.
41. The Israel Science Foundation - The Academy of Sciences and Humanities.
Grand Title: "Designing New Catalytic Processes Promoted by Organoactinide Complexes."
Period 2009-2013. Principal Investigators: M. S. Eisen \$65,000/y.
42. BMBF Nanofiltration Membranes for seawater treatment.
Period 2013-2015. Principal Investigators: M. S. Eisen and Prof. Ori Lahav
80,000 Euro
43. The Israel-German Binational Foundation GIF
Grand Title: "Homogenous Group IV Catalysts with Superbasic Imidazolin-2-
iminato Ligands for the Polymerization of Olefins"
Period 2010-2013. Principal Investigators: M. S. Eisen and M. Tamm
\$200,000 Eu.
44. The Technion-Security Research Fund
Grand Title: "Development of a compact and low cost detector for uranyl ions
under ambient conditions" Encyclopedia of Inorganic and Bioinorganic
Chemistry
Period 2011-2012. Principal Investigators: M. S. Eisen and I.
Schechter 200,000 IS.
45. Center for Security Science and Technology at the Technion.
Grand Title: "Decontamination of Nerve Agents via Auto Catalytic Slow
Release of the Decontaminating Agent as Compared to Photo Oxidation"
Period 2011-2012. Principal Investigator: Y. Dubowski, H. Bianco-Peled and
M. S. Eisen \$100,000.
46. The Binational Science Foundation.
Grand Title: "Designing new elastomeric polyolefins".
Period 2011-2015. Principal Investigators: M. S. Eisen and R. Waymouth.
\$30,000/y.
47. Ministry of Science: NOFAR Program.
Grand Title: "Use of recycled crosslinked polyethylene for treatment of water
system". Period 2012-2014. Principal Investigators: M. S. Eisen 476,000 ₪.
48. Ministry of Science: Energy Program.
Grand Title: "Investigation and development of two-chamber reactor for
gasification of biomass and organic waste to produce syngas – feedstock for
chemicals and fuels".
Period 2012-2015. Principal Investigators: M. S. Eisen 199,525 ₪.
49. Ministry of Economics: KAMIN Program.

- Grand Title: “פולימרים לכייליה מלאכותית שניתן ללבוש”. Period 2013-2015.
Principal Investigators: M. S. Eisen 800,000 ₪.
50. Ministry of Science: Energy Program. Magnet TEPS
Grand Title: “Synthesis of New OH – ion Highly Conducting Membranes”.
Period 2013-2014. Principal Investigators: M. S. Eisen 300,000 ₪.
51. Ministry of Science: Energy Program. Magnet TEPS –with CellEra
Grand Title: “Synthesis of New OH – ion Highly Conducting Membranes”.
Period 2014-2015. Principal Investigators: M. S. Eisen 250,000 ₪.
52. Ministry of Science: Energy Program. Magnet TEPS with Tadiran
Grand Title: “Manganese Trapping in Li Batteries”
Period 2014-2015. Principal Investigators: M. S. Eisen 250,000 ₪.
53. The Israel-German Binational Foundation GIF
Grand Title: “Polymerization of Olefins and Cyclic Esters Promoted by Imidazolin-2-iminato Group 4 and Actinide Complexes”
Period 2014-2017. Principal Investigators: M. S. Eisen and M. Tamm 180,000 Eu.
54. The Israel Science Foundation - The Academy of Sciences and Humanities.
Grand Title: “Designing New Organoactinide Complexes towards Specific Catalytic Processes.”
Period 2014-2018. Principal Investigators: M. S. Eisen \$76,000/y.
55. The Pazy Foundation - The Academy of Sciences and Humanities.
Grand Title: “Catalysis with Actinides.”
Period 2015-2019. Principal Investigators: M. S. Eisen 280,000/y Shekels.
56. Ministry of Science: Energy Program. Magnet TEPS –with CellEra
Grand Title: “Synthesis of New OH – ion Highly Conducting Membranes”.
Period 2015-2016. Principal Investigators: M. S. Eisen 250,000 ₪.
57. Ministry of Science: Energy Program. Magnet TEPS with Tadiran
Grand Title: “Manganese Trapping in Li Batteries”
Period 2015-2016. Principal Investigators: M. S. Eisen 250,000 ₪.
58. Ministry of National Infrastructures, energy and Water Resources.
Energy Program.
Grand Title: “Developing two-chamber reactor for the gasification of biomass organic waste and poor fossil fuels”
Period 2016-2019. Co-Principal Investigator: M. S. Eisen 267,000 ₪.
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Grand Title: “Synthesis of New OH – ion Highly Conducting Membranes”.
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61. Ministry of Science: Energy Program. Magnet TEPS –with CellEra
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Grand Title: "Manganese Trapping in Li Batteries"
Period 2017-2018. Principal Investigators: M. S. Eisen 540,000 ₪.
63. The Israel Science Foundation - The Academy of Sciences and Humanities.
Grand Title: "Challenging Catalytic Processes Catalyzed by Expanded N-heterocyclic Iminato Actinide Complexes."
Period 2019-2023. Principal Investigators: M. S. Eisen \$76,000/y.
64. Ministry of Science: Energy Program. Magnet TEPS with Tadiran
Grand Title: "Manganese Trapping in Li Batteries"
Period 2018-2019. Principal Investigators: M. S. Eisen 320,000 ₪.
65. Rafael Co, LTD
Grand Title: "Characterization of HTPB."
Period 2017-2019. Principal Investigators: M. S. Eisen \$300,000.
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Period 2020-2024. Principal Investigators: M. S. Eisen and Guy Yardeni \$ 185,000/y.

Moris S. Eisen List of Publications.

(A) Theses:

1. M.Sc. Thesis: "Synthesis and Catalytic Properties of Dirhodium Complexes Bridged by a Sulfur Atom", Hebrew University of Jerusalem, Israel. 1984.
2. Ph. D. Thesis: "Dirhodium Complexes Having Thiolato Ligands as Homogeneous and Heterogeneous Catalysts", Hebrew University of Jerusalem, Israel. 1990.

(B) Original Papers in Professional Journals, with Referees.

(B. 1) Published:

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