

Curriculum Vitae

1. Name: DAN MEYERSTEIN
Born: Jerusalem, Israel, 1938, Married to Prof. Naomi Meyerstein, 4 children.
Citizenship: Israeli
Work address: Ariel University Center, Ariel, 407000 Israel
Languages: Hebrew and English fluent, German good (speaking and reading only).
Phone No.: +972-3-9066153
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2. Academic
Education:
1956-61 The Hebrew University of Jerusalem.
1961 M.Sc. in Physical Chemistry (adviser Prof A. Treinin).
1963-65 Ph.D. studies at the Hebrew University of Jerusalem (adviser Prof. M. Anbar).
1965 Ph.D. in Chemistry.

3. Academic
Employment:
2004- Professor Emeritus, Ben-Gurion University of the Negev.
1995- President, Ariel University Center of Samaria
1990-94 Deputy Rector, Ben-Gurion University of the Negev.
1987(summer) Visiting Scientist Hiroshima University, Japan.
1986-91 Chairman Coal Research Center.
1985(summer) Visiting Scientist Brookhaven National Laboratory, NY, USA.
1983- Consultant Nuclear Research Centre Negev
1983-95 Full time employment at Ben-Gurion University of the Negev.
1983(summer) Visiting Scientist Argonne National Laboratory, Argonne, IL, USA.
1981(summer) Visiting Scientist Argonne National Laboratory, Argonne, IL, USA.
1979(summer) Visiting Scientist Argonne National Laboratory, Argonne, IL, USA.
1979-89 Library Director, Ben Gurion University of the Negev.
1978- Professor
1977-78 Visiting Scientist Argonne National Laboratory, Argonne, IL, USA.
1976(summer) Visiting Scientist Hahn-Meitner Institut fur Kern Forschung, Berlin, F.R.G.
1973-77 Director Chemistry Dept. Nuclear Research Centre Negev.
1973-78 Associate Professor.
1971-74 Consultant Chemistry Division Argonne National Laboratory, Argonne, IL, USA.
1969-70 Coordinator Physical Chemistry Dept. Ben Gurion University of the Negev.
1971(summer) N.S.F. Research Fellow at Case Western Reserve University Cleveland, Ohio, USA.
1968-73 Senior Lecturer.
1968- Chemistry Dept. Ben-Gurion University of the Negev, (1968-83 joint appointment with the Nuclear Research Centre Negev).
1965-6 Research Fellow Argonne National Laboratory, Argonne, IL., USA.
1961-65 Soreq Nuclear Research Center.

4. Academic	
Activities:	
Research & Development	Function in the University:
Activities:	
1969-70	Coordinator Physical Chemistry Dept.
1974-77	Chairman of the committee for supplementary work.
1977	Member of the committee for determining guidelines for budget allocation to the faculties.
1978-82	Member of the nominations committee of the Faculty of Engineering.
1978-82	Member of the nominations committee of the Applied Research Institutes.
1978-80	Chairman, library committee.
1979-89	Library director.
1980-84	Member of the nomination and policy committee of the Chemistry Dept.
1980-86	Senate representative: in the board of governors and in the executive committee.
1981-87	Senate representative: in the board of governors in the executive committee.
1981-84	Member of the committee for academic development.
1981-88	Chairman of the graduate studies committee of the Chemistry Dept.
1982-84	Chairman of the sub-committee for space of the academic development committee.
1982-85	Senate representative: in the standing committee.
1983-86	Chairman of the Chemistry Dept. committee for promotion to professor rank.
1983-86	Member in the rules committee.
1984-89	Senate representative: in the finance committee.
1985-86	Member in the nominations committee of the board of governors.
1985-89	Senate representative: in the finance committee of the executive committee.
1986-87	Chairman of the rules committee.
1987-88	Member in the academic planning committee for 2001.
1988-89	Member of the nominations committee of the Faculty of Natural Sciences.
1988-89	Senate representative: in the board of governors and in the executive committee.
1988-89	Member of the promotion committee of the Faculty of Natural Sciences.
1989	Chairman of the Chemistry Dept. committee for promotion to professor rank.
1989	Senate representative in the president search committee.
1990	Member of a subcommittee for establishing guide lines for the allocation of junior academic slots to the faculties.
1989-91	Member of the promotion committee of the senate.
1990-91	Member of the steering committee of the senate.
1986-91	Chairman of the Coal Research Center.
1986-93	Member of the committee for promotion of research workers in the University Institutes.
1990-94	Deputy Rector.
1991-96	Member of the steering committee of the R. Bloch Coal Research Center.
1994-95	Member of the steering committee of the Catalysis Center.

1992-96 Representing the University in the Committee for Cooperation with The Nuclear Research Centre Negev.

1994-97 Member steering committee of the Faculty of Natural Sciences.

1993-97 Member steering committee of the Department of Chemistry.

1999-02 Member steering committee of the Department of Chemistry.

Other

Academic Activities:

2000-2002 Secretary Division Inorganic Chemistry, IUPAC

1998-2000 Chairman, Israel Society for Oxygen and Free Radical Research.

1997-98 Consultant Makhteshim Ltd.

1993 Acting President, Israel Chemical Society.

1988-91 President, Israel Chemical Society.

1985- 6 Consultant Netafim, Kibutz Hazerim.

Research students/
Graduate students:
Towards the **M.Sc.** degree

- 1) J. Lati - Continued his studies towards the Ph.D. degree at the university
- 2) H. Cohen - Continued his studies towards the Ph.D. degree at the university
- 3) Y. Harel - Continued his studies towards the Ph.D. degree at the Weizmann Institute
- 4) E. Fuchs - Employed by an Industrial firm in Beer-Sheva.
- 5) H. Elroi - High school teacher
- 6) I. Goldberg - Continued studies towards the Ph.D. degree
- 7) D. Golub - Nuclear Research Centre Negev
- 8) A. Rotman - Received Ph.D. degree at the Technion
- 9) M. Masarwa - Continued studies towards the Ph.D. degree
- 10) A. Szulc - Nuclear Research Centre Negev.
- 11) A. Meshulam - Continues toward Ph. D.
- 12) M. Winnik - Continues toward Ph. D.
- 13) H. Bamnolker - Studied towards the Ph.D. degree at Bar-Ilan University
- 14) I. Zilbermann - Continued toward Ph. D.
- 15) G. Golub - Continued toward Ph. D.
- 16) D. Sagiv - Graduated 1993.
- 17) K. Mansano - Weiss - Continued toward Ph.D.
- 18) M. Sapphire - Continued toward Ph. D.
- 19) O. Sapphire - Continued toward Ph. D.
- 20) E. Solomon - Continued toward Ph. D.
- 21) N. Navon - Continued toward Ph. D.
- 22) N. Shaham - Continued toward Ph. D.
- 23) T. Eliash - Continued her studies towards the Ph.D. degree at the Weizmann Institute .
- 24) R. Ish-Shalom - Graduated 1996.

- 25) A. Burg - Continued her studies towards the Ph.D. degree.
- 26) R. Hershko - Continued her studies towards the Ph.D. degree.
- 27) H. Raznoshik - Continued her studies towards the Ph.D. degree.
- 28) I. Rusonik - Continued her studies towards the Ph.D. degree.
- 29) Y. Albo - Continued her studies towards the Ph.D. degree.
- 30) D. Shamir - Continues his studies towards the Ph.D. degree.
- 31) E. Shaldanov - Continued her studies towards the Ph.D. degree.
- 32) H. Teieb - Graduated 2003
- 33) E. Barski - Graduated 2005
- 34) S. Rachmilovich-Calis - Continues her
- 35) L. Hevroni - Continues her studies towards the Ph.D. degree.
- 36) A. Mizrachi - Continues his studies towards the Ph.D. degree
- 37) Y. Volfer
- 38) E. Itach
- 39) L. Pochtarenko - Continues her studies towards the Ph.D. degree.

Towards the
Ph.D. degree

- 1) A. Levy - Biology Research Institute, Nes-Ziona(in cooperation with Prof Ottolenghi)
- 2) J. Lati - Dead Sea Works Ltd.
- 3) H. Cohen - Nuclear Research Centre Negev
- 4) M. Freiberg - Bromine Compounds Ltd.
- 5) E. Zeigerson - Applied Research Institutes Ben Gurion University of the Negev
- 6) M. Nutkovich - Dead Sea Works Ltd.
- 7) D. Issashary - Dead Sea Works Ltd.
- 8) N. Jubran - 3M Company
- 9) M. Goldstein - Intel Company.
- 10) Y.Sorek - Nuclear Research Centre Negev
- 11) Y.Uzan - Bromine Compounds Ltd.
- 12) M. Masarwa - Bromine Compounds Ltd.
- 13) I. Goldberg - Nuclear Research Centre Negev.
- 14) E. Luzzatto - Luzzatto & Luzzatto Patent Attorneys.
- 15) A. Meshulam - Serafon Ltd.
- 16) I. Zilbermann - Nuclear Research Centre Negev.
- 17) G. Golub - Dead Sea Works Ltd.
- 18) C. Mansano - Weiss-Teva.
- 19) E. Maimon - Nuclear Research Centre Negev.
- 20) M. Sapphire - Nuclear Research Centre Negev.
- 21) N. Navon - Nuclear Research Centre Negev.
- 22) T. Zilbermann - Studies in progress.
- 23) O. Sapphire - Graduated.
- 24) E. Solomon - Bromine Compounds Ltd.
- 25) V. Nehemia Mashala - Graduated.
- 26) N. Shaham-Wldmann - Taro.
- 27) A. Burg - S. Shamun College.
- 28) R. Herscu - Graduated 2007.
- 29) E. Lozinsky - Agis.
- 30) Y. Lavie - Studies in progress
- 31) M. Topaz - Graduated 2006

- 32) I. Rusonik - Graduated 2006.
- 33) H. Raznoshik - Graduated 2006
- 34) O. Schutz - Studies in progress.
- 35) Y. Albo - Studies in progress.
- 36) E. Shaldanov - Graduated 2007
- 37) D. Shamir - Graduated 2007.
- 38) S. Rachmilovich-Calis - Studies in progress.
- 39) T. Zidki - Studies in progress
- 40) I. Popivker - Studies in progress
- 41) G. Yardeni - Studies in progress
- 42) O. Oster-Shuster - Studies in progress
- 43) L. Katz - Studies in progress
- 44) G. Shmul- Studies in progress
- 45) L. Pochtarenko - Studies in progress

Ph.D. students
from abroad
who
performed a
part of their
studies in
Beer-Sheva.

- 1) D. Guldi - From the University of Koln, Germany
- 2) W. Gaede - From the University of Witten/Herdecke, Germany
- 3) C. Stockheim-From the Ruhr University, Bochum, Germany
- 4) T. Kaloudis - From the University of Athens, Greece.

Postdoctoral
and Sabbatical
Associates:

- 1) M. Jaacobi
- 2) A. Ulman
- 3) L. J. Kirschenbaum
- 4) A. Shusterman
- 5) A. Rotman
- 6) E. Simhon
- 7) A. Sauer
- 8) A. Pribush
- 9) A. Passinski
- 10) M. Ali
- 11) D. Epshtein

Other relevant
activities:

Member: Israel Chemical Society, Israel Society for Oxygen and Free Radical Research.

American Chemical Society, the Royal Society of Chemistry and the Society for Biological Inorganic Chemistry.

Membership
in national &
international
committees:

- 1980-90 Member of the sub-committee for libraries of the Planning and Granting Committee, Council for Higher Education.
- 1980-93 Member of the executive committee of the Israel Chemical Society.
- 1983 Member of the chemistry sub-committee for basic equipment grants of the Planning and Granting Committee, Council for Higher Education.
- 1983 Member of the applied research grants committee of the Israel Academy of Science.
- 1983-91 Member of the editorial board of the Israel Journal of Chemistry.
- 1984-91 Member of the board of governors of the Weizmann Press.
- 1984- Member international organizing committee of the ICCC conferences.
- 1984-93 Chairman, steering committee for computerization of the libraries of the Israeli universities of the Planning and Granting Committee, Council for Higher Education.
- 1985-91 One of the representatives of the Israel Academy of Science to the International Union for Pure and Applied Chemistry.
- 1985- Member of the academic committee of the Energy Research Center of The Hebrew University of Jerusalem.
- 1988 Chairman, organising committee of the 53rd Annual Meeting of the Israel Chemical Society.
- 1988 Member of the chemistry sub-committee for basic equipment grants of the Planning and Granting Committee, Council for Higher Education.
- 1988-91 President, Israel Chemical Society.
- 1989 Member of the chemistry research grants committee of the Israel Academy of Science.
- 1989-91 Representative of Israel in the Council of IUPAC.
- 1989-91 Representative of Israel in the General Assembly of the Federation of European Chemical Societies.
- 1991- Chairman national committee for chemistry of the Israel Academy of Science towards the International Union for Pure and Applied Chemistry.
- 1993 Acting President, Israel Chemical Society.
- 1994 Member of the academic board of the Judea and Samaria College, Ariel.
- 1994 Member organizing committee of the International Symposium on Homogeneous Catalysis, Jerusalem.
- 1994- Member of the executive committee of the Israel Society for Oxygen Free Radical Research.
- 1995 Chairman organizing committee of the XX International Symposium on Macrocyclic Chemistry, Jerusalem.
- 1995 Chairman organizing committee of the Annual Meeting of The Israel Society for Oxygen Free Radical Research.
- 1995-99 Committee for evaluating research proposals in Inorganic and Physical Chemistry-BSF.
- 1997-03 Member of the executive committee of the Israel Chemical Society
- 1997-99 Member of the Committee of the Inorganic Division of IUPAC.
- 1999 Chairman, Israel Society for Oxygen and Free Radical Research.
- 1999- Member international organizing committee of the International Conferences on Bioinorganic Chemistry.
- 1999-02 Secretary Division of Inorganic Chemistry, IUPAC.
- 2000-04 Member editorial board, J. Biological Inorganic Chemistry.
- 2002- Member editorial board, European J. Inorganic Chemistry.

- 2001- Member international organizing committee of the FIGIPS and FIGIPAS conferences.
- 2007- Representative of Israel in the Inorganic Chemistry Division of the European Chemical Societies.
- 2008 Chairman organizing committee of the International Conference on Coordination Chemistry.
- 2008-2009 Member Executive Committee of the Inorganic Chemistry Division of the European Chemical Societies.
- 2010- Chairman Executive Committee of the Inorganic Chemistry Division of the European Chemical Societies.

Non
Academic
Activities:

- 1966-7 Chairman, Israeli Students Association in Chicago.
- 1970-8 Chairman, Parents Association Of the Massada School, Beer-Sheva.
- 1975-6 Chairman, Parents Association of Beer-Sheva Grammar Schools.
- 1990-9 Chairman, Board of Directors of the Beer-Sheva Theater.

5. Grants &
Awards:

Honours:

- 1997 Meitner-Humboldt Research Prize
- 1998 Kolthoff prize

Research
Grants:

- 1972-75 Construction of an electrochemical setup for the study of fast reactions - Israel Academy of Sciences ca \$15000 annually
- 1976-79 Study of transition metal complexes in uncommon oxidation states. Binational Science Foundation ca \$20000 annually
- 1977-81 Study of intramolecular electron transfer reactions - Deutsche Forschung Gesellschaft 6000 D.M. annually
- 1978-80 Mechanisms of formation and decomposition of metal-carbon bonds in aqueous solutions -Israel Academy of Sciences ca \$15000 annually
- 1980-82 Mechanisms of formation and decomposition of metal-carbon bonds in aqueous solutions -P.R.F.(American Chemical Society) \$14500 annually
- 1981-84 Mechanisms of formation and decomposition of metal-carbon bonds in aqueous solutions -Binational Science Foundation ca \$20000 annually
- 1982-85 Design of transition metal complexes suited as redox catalists -Binational Science Foundation ca \$20000 annually
- 1983-84 Photochemical oxidation of bromides -Israel Chemicals Ltd \$10000
- 1984-85 Catalists for oxidation by bromate, preliminary experiments. Bromine Compounds Ltd. \$3000
- 1986-88 Design of transition metal complexes suited as redox catalists -Binational Science Foundation ca \$32000 annually
- 1985-2000 Radiation chemistry of aqueous solutions -Planning and Grants Committee Council of Higher Education in cooperation with the Israel Atomic Energy Commission \$31000 first year, \$130,000 second year, \$32,000 third year, \$ 47,000 fourth year. \$50,000 fifth year, \$ 40,000 sixth year, \$ 90,000 seventh year, \$ 36,000 eighth year, \$ 30,000 ninth year, \$ 27,000 tenth year, 11th. year \$ 15,000, 12th. year \$ 20,000, 13th. year \$ 20,000, 14th. Year \$ 22,000

- 1985-88 Transition metal complexes as catalysts for the formation of carbon-carbon bonds. The Ministry of Energy and Infrastructure \$26,000
- 1987 Purchase of a diode array spectrophotometer - Planning and Grants Committee Council of Higher Education. \$29,000
- 1987-90 Determination of the equilibrium constants of the homolysis of metal-carbon β bonds in aqueous solutions. (With Dr. H. Cohen) -Israel Academy of Sciences \$54,000
- 1987-90 Kinetics and mechanisms of fast organometallic reactions in aqueous solutions. -Binational Science Foundation \$ 100,000
- 1989-92 Reaction mechanisms of the formation and decomposition of complexes with metal- carbon sigma bond in aqueous solutions: Application of high pressure techniques. German-Israel Foundation for Scientific Research. 300,000 DM
- 1989-90 Oxidation processes. Bromine Compounds Ltd. \$ 20,000.
- 1990-93 Mechanistic Studies of Biomimetic Free Radical Reactions.(With Dr. H. Cohen) German- Israel Foundation for Scientific Research. 304,000 DM
- 1990-93 Design of New Redox Reagents. Israel Academy of Sciences \$69,000
- 1991-3 Interaction of metals with gases under radiation fields. (With Prof. D.Eliezer and Dr. H. Cohen) Planning and Grants Committee Council of Higher Education in cooperation with the Israel Atomic Energy Commission \$20,000 first year, \$20,000 second year
- 1993 High Pressure Mechanistic Studies of Free Radical Induced Redox Reactions Involving Metal Complexes of Biological Relevance. German-Israel Foundation for Scientific Research. 98,000 DM
- 1993 Reactions of Peroxyl Free Radicals with Transition Metal Complexes in Aqueous Solutions, Internal grant from the University. ~ \$ 9500
- 1994-5 Development of New Systems for Population Screening for *in vivo* Damage to Red Blood Cells.(In cooperation with Prof. N. Meyerstein) H. Stern Foundation. ~ \$20,500
- 1994 Renewal of the Linear Accelerator Laboratory, with professors Csapski, Rabani and Cohen, Israel Academy of Sciences \$72,000
- 1994 Mechanism of β hydride shift reactions in aqueous solutions. Internal grant from the University. ~ \$ 5000
- 1994-6 Development of a New Method for Screening for Exposure to Oxidative Stress or to Heavy Metals. (With Prof. N. Meyerstein) Ministry of Employment, The Committee for Preventive Action. ~ \$ 54,000
- 1995-8 Mechanisms of Organic Reactions which are Catalyzed by Mono-Valent Copper Complexes in Aqueous Solutions. Israel Academy of Sciences ~ \$ 37,000 annually
- 1997-2000 The effect of Ionizing Radiation on the Properties of Concrete-Planning and Grants Committee Council of Higher Education in cooperation with the Israel Atomic Energy Commission \$ 45,000 first year, \$ 30,000 second, third and fourth year
- 2001-08 Ligand design- Planning and Grants Committee Council of Higher Education in cooperation with the Israel Atomic Energy Commission – ca \$ 20,000 annually
- 1999 Properties of concentrated brines. Bromine Compounds, Ltd., \$ 25,000
- 2001-4 Reactions of Peroxyl Radicals with Peroxides, Israel Academy of Sciences ~ \$ 40,000 annually

- 2001 Reduction of Alkenes by Low Valent Transition Metal Complexes (with H. Cohen), Internal grant from the University. ~ \$ 10,000
- 2004-8 Radical reactions in solids and concentrated solutions - Planning and Grants Committee Council of Higher Education in cooperation with the Israel Atomic Energy Commission – ca \$ 20,00 annually

6. List of Publications:

6.1 Peer reviewed papers:

- 270) T. Kurzion-Zilbermann, A. Masarwa, E. Maimon, H. Cohen and D. Meyerstein Mechanism of Reaction of Alkyl Radicals with $(\text{Ni}^{\text{II}}\text{L})^{2+}$ Complexes in Aqueous Solutions Dalton Trans., 3959-3965 (2007)
- 271) D. Shamir, I. Zilbermann, E. Maimon, G. Gellerman, H. Cohen and D. Meyerstein Reductive Nitrosation of Peptides Ligated to High Valent Metal Cations Eur. J. Inorg. Chem., 5029-5031, (2007)
- 272) T. Silberstein, D. Mankuta, A. I. Shames, G. I. Likhtenshtein, D. Meyerstein, N. Meyerstein and O. Saphier Neonatal Blood is more Resistant to Oxidative Stress Induced by Stable Nitroxide Radicals than Adult Blood Arch. Gynecol. Obstet, 277, 233-237 (2008)
- 273) J. S. Summers, J. B. Baker, D. Meyerstein, A. Mizrahi, I. Zilbermann, H. Cohen, C. M. Wilson and J. R. Jones. Measured Rates of Fluoride/Metal Association Correlate with Rates of Superoxide/Metal Reactions for $\text{Fe}^{\text{III}}\text{EDTA}(\text{H}_2\text{O})^-$ and Related Complexes. J. Am. Chem. Soc., 130, 1727-1734 (2008)
- 274) R. Herscu-Kluska, A. Masarwa, M. Saphier, H. Cohen, D. Meyerstein Mechanism of the Reaction of Radicals with Peroxides and Dimethyl Sulfoxide in Aqueous Solution Chemistry, A European Journal, 14, 5880-5889, 2008
- 275) H. Rasnoshik, A. Masarwa, H. Cohen, and D. Meyerstein Reduction of Ethylene by $\text{Ni}^{\text{I}}(\text{cyclam})^+$ in aqueous solutions J. Phys.Chem., 112, 12769-12771, 2008
- 276) R. Bar-Ziv, I. Zilbermann, T. Zidki, H.Cohen and D, Meyerstein Reactions of Alkyl Peroxyl Radicals with Metal Nanoparticles in Aqueous Solutions J. Phys. Chem. C. 113, 3281-3286, 2009.
- 277) Y. Albo, M. Saphier, E, Maimon, I. Zilbermann, D. Meyerstein, A new chelate ligand designed for the uranyl ion Coord. Chem. Rev., 253, 2049-2055, 2009
- 278) G. Yardeni I. Zilbermann E. Maimon H. Cohen D. Meyerstein, A novel Ce-III-cyclam type complex and its redox chemistry in aqueous solutions Research on Chemical Intermediates, 35, 543-554, 2009
- 279) S. Rachmilovich-Calis, N. Meyerstein, D. Meyerstein A Mechanistic Study of the Effects of Antioxidants on the Formation of Malondialdehyde-Like Products in the Reaction of Hydroxyl Radicals with Deoxyribose Chemistry a European J., 15, 7717-7723, 2009
- 280) S. Rachmilovich-Calis, A. Masarwa, N. Meyerstein, D. Meyerstein, R. van Eldik. New Mechanistic Aspects of the Fenton Reaction Chemistry a European J., 15, 8303-8309, 2009

- 281) M. Eckshtain, I. Meital, I. Zilbermann, A. Mahammed, I. Saltsman, Z. Okun, E. Maimon, H. Cohen. D. Meyerstein, Z. Gross. Superoxide dismutase activity of corrole metal complexes Dalton Trans., 7679-7882, 2009
- 282) A. Pribush, H. J. Meiselman, D. Meyerstein, N. Meyerstein. Irregular Changes in the Structure of Flowing Blood at Low Flow Conditions. Annals of Biomedical Engineering, 37, 2488-2496, 2009
- 283) A. Pribush, D. Meyerstein, N. Meyerstein The mechanism of erythrocyte sedimentation. Part 1: Channeling in sedimenting blood Colloids and Surfaces, B: Biointerfaces, 75, 224-229, 2010
- 284) A. Pribush, D. Meyerstein, N. Meyerstein The mechanism of erythrocyte sedimentation. Part 2: The global collapse of settling erythrocyte network Colloids and Surfaces, B: Biointerfaces, 75, 214-223, 2010
- 285) H. Rasnoshik, A. Masarwa, H. Cohen, I. Zilbermann, E. Maimon, D. Meyerstein, On the mechanism of reduction of maleate and fumarate by NiI(1,4,8,11-tetraazacyclotetradecane)+ in aqueous solutions Dalton Trans., 39, 823-833, 2010
- 286) L. Kats, E. Maimon and D. Meyerstein Substantial Inverse Isotope Effects in the Hydrogen Atom Abstraction from [(L)ClRhIIIbondH/D]+ Macrocyclic Complexes by Methyl Radicals in Aqueous Solutions Chemistry - A European Journal 16, 460-463, 2010,.
- 287) A. Burg, D Meyerstein. Is It Always Correct To Use The Marcus Cross Relation For Calculations of Electron Self-Exchange Rates? Inorg. Chim. Acta, 363, 737-740, 2010
- 288) I. Popivker, I. Zilbermann, E. Maimon, D. Shamir, N. Meyerstein, D. Meyerstein On the reaction mechanism of MoS_4^{2-} with Nitric Oxide Inorg. Chem. Comm., 13, 589-592, 2010
- 289) O. Schutz, A. Masarwa, I. Zilbermann, E. Maion, H. Cohen, D. Meyerstein On the mechanism of reduction of maleate by a Co(I) complex with a macrocyclic ligand in aqueous solutions. J. Coord. Chem., 63, 2528-2541, 2010
- 290) I. Rusonik, H. Cohen, A. Lugowskoy, A. Krasnopolski, M. Zinigrad, D. Meyerstein. The effect of an electrical bias on the mechanism of decomposition of transients with metal-carbon σ bonds. Eur. J. Inorg. Chem., 3252-3255, 2010

7.2 Chapters in Books:

- 1) M. Anbar and D. Meyerstein
Isotopically Substituted Water in the Investigation of the Primary Radiolytic Processes. "Radiation Chemistry of Aqueous Systems." The Weizmann Science Press, Jerusalem 1967 p 109-155
- 2) Guest Editor, Israel J. Chem. 25 (1985)
Transition Metal Complexes with Uncommon Oxidation States.
- 3) D. Meyerstein
Monovalent Nickel Complexes with Tetraazamacrocyclic Ligands in Aqueous Solutions. "Current Topics in Macrocyclic Chemistry in Japan" E. Kimura ed. Hiroshima School of Medicine Press, 1987 p.70

- 4) S. Goldstein, G. Czapski, H. Cohen and D. Meyerstein
Free Radicals Induced Cleavage of Organic and Biological Molecules Catalyzed by Copper Ions - An Alternative Pathway for Biological Damage. "Bioinorganic Chemistry of Copper", K. D. Karlin and Z. Tyeklav eds., Chapman & Hall, NY, p 222, 1993
- 5) S. Goldstein, D. Meyerstein and G. Czapski.
A Reconsideration of the Hydroxylation of Salicylate as an assay for .OH Radicals Identification. In "The Oxygen Paradox." K.J.A. Davies and F. Ursini ed., Cleup Press, Padova, Italy, p.169 (1995)
- 6) D. Meyerstein
Chemical Properties of complexes with Copper-Carbon σ Bonds in Aqueous solutions. Current Trends In Coordination Chemistry. Ed. G. Ondrejovic and A. Sirota, Slovak Technical Universty Press, Bratislava, Slovakia, 1995, p. 207
- 7) D. Meyerstein and A. Shanzer (editors)
Twentieth International Symposium on Macrocyclic Chemistry, Jerusalem, 2-7/7/95. Pure and Applied Chemistry, 1195 - 1295, 68 (1996)
- 8) D. Meyerstein
Reactions of aliphatic carbon – centered and aliphatic – peroxy radicals with transition metal complexes as a plausible source for biological damage induced by radical processes Metal Ions in Biological Systems, 36: 41-77 (1999)
- 9) H. Taieb, D. Meyerstein and H. Cohen
Oxidative Decomposition of Formaldehyde by Polyperoxotungstate.
In Proceedings of the 11th International Conference on Coal Science, San Francisco, USA, 2001
- 10) A. Bino and D. Meyerstein
Guest Editors: Israel J. Chem issue on "Modern Inorganic Chemistry" 41 (3) 2001
- 11) D. Meyerstein
Pulse Radiolysis of Aqueous Solutions as a Tool in Inorganic Chemistry.
In: The Optimization of Composition, Structure and Properties of Metals, Oxides, Composites, Nano and Amorphous Materials, Ed. E. A. Pastukhov, Ural Division of Russian Academy of Sciences, p. 119-143, 2002
- 12) E. Lozinsky, A. Novoselsky, A. I. Shames, R. Glaser, G. I. Likhtenshtein and D. Meyerstein
Magnetic Resonance Studies on Ascorbate Binding to Albumin.
In "EPR in the 21st Century: Basics and Applications to Material, Life and Earth Sciences" Eds. A. Kawamori, J. Yamauchi and H. Ohta, Elsevier, 471-476, 2002
- 13) A. Masarwa and D. Meyerstein
Properties of Transition Metal Complexes with Metal-Carbon Bonds in Aqueous Solutions as Studied by Pulse Radiolysis. Adv. Inorg. Chem., 55, 271-313, 2004

- 14) I. Rusonik, T. Zidki, H.Cohen and D. Meyerstein
Reactions of Alkyl Radicals with Metal Powders Immersed in Aqueous Solutions. In: The Optimization of Composition, Structure and Properties of Metals, Oxides, Composites, Nano and Amorphous Materials, Ed: V. Ya Shevchenko and M. Zinigrad, Russian Academy of Sciences, 61-68, 2004
- 15) A. Masarwa and D. Meyerstein
Radical Reactions with Metal Complexes in Aqueous Solutions In: The Optimization of Composition, Structure and Properties of Metals, Oxides, Composites, Nano and Amorphous Materials, Ed. E. A. Pastukhov and M. Zinigrad, Ural Division of Russian Academy of Sciences, p. 96-115, 2006
- 16) A. Masarwa and D. Meyerstein
Radical Reactions with Metal Complexes in Aqueous Solutions
In: Inorganic and Bio-Inorganic Chemistry 9. Inorganic Reaction Mechanisms Ed I. Bertini, in Encyclopedia of Life Support Systems (EOLSS), Developed Under the Auspices of the UNESCO, Eolss Publishers, Oxford, UK, [<http://www.eolss.net>], 2006
- 17) T. Zidki, H.Cohen and D. Meyerstein
Direct Deposition of Silver Nanoparticles on Silica Nanoparticles in Aqueous Suspensions. In: The Optimization of Composition, Structure and Properties of Metals, Oxides, Composites, Nano and Amorphous Materials, Ed: E. A. Pastukhov, M. Zinigrad and V. N. Strelnikov, Russian Academy of Sciences, 174-179, 2008
- 18) D. Meyerstein, Editor,
Coord. Chem. Rev. 253(15-16), 2009

7.3 Papers
Presented at
International
Conferences:

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