

Part I: CURRICULUM VITAE

1. Personal

Department of Soil Chemistry, Plant Nutrition and Microbiology, Institute of Soil, Water and Environmental Sciences

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Dates	Description
1961	Born in Vinnitsa, Ukraine
1969-1979	School education (Kazan, Russia)
1995	Immigration to Israel
	Married+3

2. University Education and Additional Training

Dates	Description
1979 – 1983	B.Sc. in Chemistry at Kazan State University (Russia); Title of thesis: Solvation enthalpies vs. dipole moments of organic compounds. Supervision by: Prof. Boris N. Solomonov (Faculty of Chemistry, Kazan State University, Russia)
1983 –1984	M.Sc. (Cum Laude) in Organic Chemistry at Kazan State University (Russia) Title of thesis: Solvation enthalpies of non-electrolytes in solvents with the hydrogen bonding network Supervision by: Prof. Boris N. Solomonov (Faculty of Chemistry, Kazan State University, Russia)
1983	Training in Laboratory of Thermochemistry (Institute of Chemical Physics, Academy of Sciences of USSR, Moscow). Research Subject: Calorimetric determination of vaporization enthalpies of organic compounds and of adsorption enthalpies of gases on solids. Supervision by: Prof. Evgeniy Miroshnichenko (Institute of Chemical Physics, Academy of Sciences of USSR, Moscow)
1984 – 1988	Ph.D. in Physical Chemistry at Kazan State University&Kazan Institute of Chemical Technology (Russia)

Title of thesis: Solvation thermochemistry of non-electrolytes in solvents self-associated by hydrogen bonds.

Supervision by: Profs. Boris Solomonov and Alexander Konovalov (Faculty of Chemistry, Kazan State University, Russia).

3. Positions Held and Academic Status

Dates	Description
1984-1995	Research Scientist in Laboratory of Structural Studies of Organic Compounds, Faculty of Chemistry, Kazan State University (Russia)
1988	Promoted to Junior Researcher
1990	Promoted to Researcher
1993	Promoted to Senior Researcher
1995-1996	Research Engineer, the Department of Soil Chemistry, Plant Nutrition and Environmental Physiology, Institute of Soil, Water and Environmental Sciences, the Volcani Center, ARO, Bet Dagan, Israel
1996-1997	Research Engineer, the Department of Soil and Environmental Physical Chemistry, Institute of Soil, Water and Environmental Sciences, the Volcani Center, ARO, Bet Dagan, Israel
1997	Research Scientist, the Department of Soil and Environmental Physical Chemistry, Institute of Soil, Water and Environmental Sciences, the Volcani Center, ARO, Bet Dagan
1998	Promoted to Rank B, equivalent to " <i>Senior Lecturer</i> "
2008	Promoted to Rank A, <i>equivalent to "Associate Professor"</i>
2017	Promoted to Rank A+, <i>equivalent to "Full Professor"</i>

4. Teaching Experience / Guiding Students

A. Academic Contribution:

Dates	Description
1988-1995	Lecturer at the Faculty of Chemistry (Kazan State University, Russia). Titles of the courses: (a) <i>intermolecular interactions in solutions of non-electrolytes</i> , (b) <i>calorimetry and thermal methods</i> .
2005-2010, 2011/2012	Lecturer at the Hebrew University, Faculty of Agriculture, Food and Environment: Title of the course: <i>Physical Chemistry</i>
2008,2009,2011,2014- 2018	“Guest” lectures in the course on clays and clay-organic interactions (by Prof. Shlomo Nir), at the Faculty of Agriculture, Food and Environment, Hebrew University of Jerusalem.

B. Guidance of M.Sc. Students:

Graduation date	Name	Title of thesis	Guidance with
1999	*Mr. Minolen Reddy	Solvation effect on organic compound interactions with soil organic matter	Dr. Ellen Graber (The Volcani Center)
2006	*Ms. Faina Burshtein	Effect of water on the sorption of organic compounds onto organo-montmorillonite	Profs. U. Mingelgrin, Z. Gerstl (both from the Volcani Center), S. Yariv (Faculty of Chemistry, Hebrew University of Jerusalem)
2011	*Ms. Anna Lordian	Characterization of components of dissolved organic matter in soils irrigated by treated wastewater effluent using three-dimensional fluorescence spectroscopy and their impact on soil structure stability	Dr. Guy Levy (The Volcani Center)
2012	*Ms. Margalit Sela	The influence of water associated with natural organic matter on its interactions with a model organic sorbate, carbamazepine	Dr. Benny Chefetz (Hebrew University of Jerusalem)
2013	*Mr. Elinatan Cohen	Characterization of dissolved organic matter in treated wastewater from different treatment levels using 3D-fluorescence spectroscopy Received the Mokadi Award of Israeli Soil Science Society	Dr. Guy Levy (The Volcani Center)
2013	*Mr. Amos Rauch	The influence of the wetting-drying cycles on dissolution of explosive components in soils	Dr. Zev Gerstl (The Volcani Center)
2014	*Ms. Alla Usyshkin	Interactions of organic ionizable PPCPs, triclosan and gemfibrozil, with sludge-amended soils.	
2014	*Mr. Yonatan Keren	Olive oil mill wastewater land application: effect on soil - organic compound interactions	

2014	Ms. Maya Shachar	Effects of the land application of treated sewage sludge on soil-atrazine interactions and the atrazine surface transport with runoff water	Dr. Meni Ben Hur (The Volcani Center)
2016	*Mr. Dvir Miller	The influence of the chemical composition of compost leachate on the mobility of organic pollutants in soil	Dr. Guy J. Levy (The Volcani Center)
2016	*Mr. Amir Nakar	Rapid detection and quantification of bacteria in drinking water using Raman and fluorescence spectroscopies	Prof. Shlomo Sela, Prof. Zeev Schmilovich (The Volcani Center)
		Received the 1 st place in the whole Faculty competition of the posters, at the Faculty of Agriculture, Food and Environment, Hebrew University of Jerusalem.	
2017	*Mr. Gilad Fisher	Compost dose effects on the composition of the microbial population and aggregate stability in two soils	Dr. Guy J. Levy (The Volcani Center)
Current-2024	*Mr. Achiya Husrabi	Sustainable integrative treatment of beef cattle waste, including anaerobic digestion to produce biogas with and complementary treatment of the digester washings using a biofilter and a green basin.	Dr. Roy Posmanik, Dr. Guy J. Levy (The Volcani Center)

*under my direct supervision.

C. Guidance of Ph.D. Students:

Graduation date	Name	Title of thesis	Guidance with
1995	*Mr. Felix Baitalov	Thermodynamics of hydration of non-electrolytes	Prof. Boris Solomonov (Kazan State University, Russia)
1996	*Mr. Vladimir Sirotkin	Calorimetric study of protein suspensions in water-organic solvent mixtures	Prof. Boris Solomonov (Kazan State University, Russia)
2022	*Mr. Yaniv Freiberg	Manure components and their effect on phosphorus sorption onto Mediterranean soils	Dr. Shahar Baram, Dr. Pinchas Fine, ARO

*under my direct supervision

D. Post-Docs and Visiting Scientists:

Dates	Name	Research subject
2012-2013	Ms. Marie-Helen Bernier	Characterization of soil organic matter in treated-wastewater irrigated soil by means of FTIR spectroscopy <i>The research work supervised together with Dr. Guy Levy (The Volcani Center)</i>

2013-2014	Prof. Dr. Peeyush Sharma (Currently, Associate Professor, at Division of Soil Sci. & Agril. Chem., SKUAST-Jammu, INDIA)	Management influences on composition of soil and dissolved organic matter in a soil profile characterized by C/N, UV absorbance, FTIR and EEM fluorescence measurements <i>The research work supervised together with Dr. Guy Levy (The Volcani Center)</i>
2017-2019	Dr. Oshri Rinot	Soil Health Index: developing a multi-factor index for characterizing health of agricultural soils and examining in various scenarios <i>The research work supervised together with Dr. Gil Eshel (Soil Erosion Research Station, Ministry of Agriculture) and Dr. Guy Levy (The Volcani Center)</i>
2018-2020	Dr. Bhuvaneshwari Manivannan, VIT University, Vellore, India	Exposure risks of pathogens and disinfection byproducts from on-site treated rainwater and drainage water for irrigation The research work supervised by Dr. Mikhail Borisover alone.

5. Activity in Scientific and Agricultural Committees

A. International:

Dates	Description and role
2012-2014, 2019	BARD proposal evaluation panel (Soil and Water); Member

A. National:

Dates	Description and role
2018-2019	The committee on establishing the pilot on adding magnesium to desalinated water; member and a representative of Ministry of Agriculture

C. Institutional:

Dates	Description and role
2014-2019	The advisory committees accompanying three young scientists who have recently joined the institute; Member and a personal supervisor
2016-2018	The ARO committee of the Interinstitutional Analytical Instrumentation Unit; Member
2016-2018	The Scientific Council of the Institute of Soil, Water and Environmental Sciences; Chairman

2016-2018	The forum of the representatives of Institute's Scientific Councils (The Volcani Center); Member
2016-2018	The steering committee for the institute's strategic focus: an official observer as the chairman of the Institute's Scientific Council
2018-to date	Storage/Collection of soil and plant samples and relevant databases (associated with Model Farm for Sustainable Agriculture): a scientific advisor
2019-2021	A member (an Institute representative) of the Academic Council (ARO, The Volcani Center)

6. Contribution to the Scientific Community

A. International:

Dates	Description
1988-1995	Organizer of the conferences of young scientists, Kazan State University (Russia)
2012	Organizer and Convener of the session " S12.02 - emerging organic pollutants - from the wastewater treatment facility to the agricultural field " in the International Conference <i>Eurosoil-2012: Soil Science for the Benefit of Mankind and Environment</i> , Fiera del Levante, Bari, Italy, July, 2-6.
2013	Member of the organizing and steering committees at the International Workshop " <i>Soil – Waste - Water 2013. Olive mill wastes and low quality water in agriculture. Effects and interactions in soil</i> "; Landau in Pfalz, Germany, April, 3-5.
2014	Co-organizer and Co-convener of a session SSS5.6 " Reflectance and fluorescence spectroscopy in soil science – current and future research and developments "; <i>General Assembly of European Geosciences Union</i> , Vienna, Austria, April, 27-May, 2.
2018	Member of the organizing and steering committees at the International Workshop " <i>Soil – Waste - Water 2018</i> "; Landau in Pfalz, Germany, March, 25-28.

B. National:

Dates	Description
2015	Co-organizer of the workshop on " Nanoparticles in Agriculture, Food and Environment " (VolcaNano), The Volcani Center, Bet Dagan, June, 1 st

C. Institutional:

Dates	Description
1999-2002	Co-Organizer of the Institute's scientific seminar
2014-2015	Co-Organizer of the Institute's scientific seminar
2020-2022	Co-Organizer of the Institute's scientific seminar

D. Outreach

Dates	Description
1988-1995	Organization of student's scientific conferences at the Faculty of Chemistry (Kazan State University, Russia)

E. Editorial responsibilities:

Dates	Description
2008-to date	Reviewer of (i) the manuscripts submitted to <i>Water Research</i> , <i>Geoderma</i> , <i>Applied Clay Science</i> , <i>The Science of the Total Environment</i> , <i>Journal of Environmental Quality</i> , <i>Chemosphere</i> , <i>Environmental Science and Technology</i> , <i>Environmental Pollution</i> ; (ii) <i>Desalinization</i> , <i>Journal of Hazardous Materials</i> ; <i>Separation Science and Technology</i> ; <i>European Journal of Soil Science</i> , <i>Colloids and Surfaces A</i> , <i>Langmuir and others</i> – sporadically.
2018-to date	Associate Editor of <i>Journal of Environmental Quality</i> .

7. Active Participation in Meetings

A. International:

Date	Title of the Meeting	Place	Role
1998	<i>Spring Meeting of American Geophysical Union (AGU)</i>	Boston, USA	Poster and co-author of an oral presentation
1998	<i>The 15th European Chemistry at Interfaces Conference (ECIC)</i>	Jerusalem, Israel	Speaker
1999	<i>Workshop on Soil Organic Matter-Organic Compound Interactions at EAWAG</i>	Dubendorf, Switzerland	Invited lecture with full reimbursement of expenses
2000	<i>Conference of International Humic Substances Society (IHSS-10)</i>	Toulouse, France	Speaker
2001	<i>The 4th International Symposium on "Effects of Surface Heterogeneity in Adsorption and Catalysis on Solids" (ISSHAC-4)</i>	Krakow, August, Poland	Speaker
2002	<i>The 3rd Mediterranean Clay Meeting</i>	Jerusalem, Israel	Speaker and co-author of the 2 nd oral presentation
2003	<i>EGS-AGU-EUG Joint Assembly</i>	Nice, France	Speaker and co-author of poster presentation
2004	<i>The 3rd International Conference "Interfaces against Pollution",</i>	Aachen/Julich, Germany	Speaker and co-author of the 2 nd oral presentation;

			chairman of a session
2004	<i>78th ACS Colloid and Surface Science Symposium</i>	New Haven, Connecticut	Speaker and co-author of the 2 nd oral presentation
2005	<i>ASA-CSSA-SSSA International Annual Meeting</i>	Salt Lake City, Utah	Presenter of 2 posters and co-author of an oral presentation
2006	The 4 th International Conference " <i>Interfaces against Pollution</i> "	Granada, Spain	Speaker and co-author of the 2 nd oral presentation
2006	The 5 th International Conference " <i>From Invention and Development to Product. From Research Institutes to the Water Industry</i> "	Sede Boqer campus, Israel	Speaker
2007	<i>MEDICTA, the 8th Mediterranean Conference on Calorimetry and Thermal Analysis</i>	Palermo, Italy	Speaker with invited lecture and co-author of the 2 nd oral presentation
2008	<i>The 1st Israel – Italy Bi-National Symposium on Water and Environmental Analysis;</i> within the framework of the <i>11th Annual Meeting of the Israel Analytical Chemistry Society</i>	Tel Aviv, Israel	Speaker
2009	<i>European Geosciences Union General Assembly (EGU)</i>	Vienna, Austria	Speaker and presenter of the poster
2009	The 7 th International Symposium on " <i>Effects of Surface Heterogeneity in Adsorption and Catalysis on Solids</i> " (<i>ISSHAC-7</i>)	Kazimierz Dolny, Poland	Speaker
2010	<i>European Geosciences Union General Assembly (EGU)</i>	Vienna, Austria	Presenter of the poster and co-author of the 2 nd oral presentation
2010	The 15 th Meeting of the <i>International Humic Substances Society (IHSS15)</i>	Tenerife, Spain	Presenter of two posters
2010	The 5 th Mid-European Clay Conference (MECC)	Budapest, Hungary	Speaker
2011	The Conference of the Geochemical Society, and the European Association of Geochemistry: <i>Goldschmidt Conference- Earth, Life and Fire</i>	Prague	Speaker
2012	<i>Eurosoil-2012: Soil Science for the Benefit of Mankind and Environment</i>	Fiera del Levante, Bari, Italy	Speaker and presenter of three posters; organizer and convener of

			the session "S12.02"
2012	The 8 th International Symposium on <i>"Effects of Surface Heterogeneity in Adsorption and Catalysis on Solids" (ISSHAC-8)</i>	Krakow, Poland	Speaker
2013	Dahlia Greidinger International Symposium – <i>Advanced methods for investigating nutrient dynamics</i>	Haifa, Technion	Speaker and presenter of three posters
2013	International Workshop Soil – Waste - Water 2013. <i>Olive mill wastes and low quality water in agriculture. Effects and interactions in soil</i>	Landau in Pfalz, Germany	Speaker and the co-author of three oral and one poster presentations; Member of the organizing and steering committee , a chairman of a session.
2013	WOMS-2013: <i>Workshop on organic matter spectroscopy</i>	La Garde, France	Speaker
2014	<i>European Geosciences Union General Assembly (EGU)</i>	Vienna, Austria	Speaker and organizer & co-convenor of a session SSS5.6
2014	8 th International Conference on <i>Interfaces against Pollution</i>	Leeunwarden, Netherland	Speaker and co-author of the 2 nd oral and one poster presentations
2014	International symposium of the SPP 1315: <i>Biogeochemical Interfaces in Soil – Towards a Comprehensive and Mechanistic Understanding of Soil Functions</i>	Leipzig, Germany, UFZ	Speaker
2015	The 9 th International Symposium on <i>"Effects of Surface Heterogeneity in Adsorption and Catalysis on Solids" (ISSHAC-9)</i>	Wroclaw, Poland	Speaker and presenter of one poster
2015	15 th EuCheMs International Conference on <i>Chemistry and the Environment</i>	Leipzig, Germany	Keynote* Invited Lecture , with a reimbursement of the participation fee , and the presenter of two posters
	*at the session "Current advances in environmental risk assessment of ionic organic chemicals"		
2016	9 th International Conference on <i>Interfaces against Pollution</i>	Lleida, Spain	Speaker and presenter of one poster

2017	<i>European Geosciences Union General Assembly (EGU)</i>	Vienna, Austria	Speaker (two oral presentations)
2017	6 th International Symposium on <i>Soil Organic Matter</i>	Rothamsted Research, Harpenden (UK)	Poster and a presenter of an oral
2018	International Workshop " <i>Soil – Waste - Water 2018</i> "	Landau in Pfalz, Germany	Speaker (with reimbursement of participation fee)
2018	International Workshop on Organic Matter Spectroscopy	Porquerolles, France	Speaker
2019	<i>European Geosciences Union General Assembly (EGU)</i>	Vienna	Co-organizer and convener of the oral session; presenter of two posters
2019	8th International Symposium on Interactions of Soil Minerals with Organic Components and Microorganisms, (ISMOM 2019)	Sevillia, Spain	Speaker
2019	American Chemical Society Fall Meeting	San-Diego	Two oral presentations
2019	The 23 rd International Conference on Environmental Indicators	Haifa, Israel	Speaker
2021	Goldschmidt Conference, International Meeting on Geochemistry	France, Lion (virtual)	Speaker
2021	Eurosoil-2021, Connecting People and Soil	Switzerland, Geneva (virtual)	Speaker
2022	Fundamentals of Adsorption - 14	Broomfield, the USA, Colorado	Speaker
2022	World Congress of Soil Science	Glasgow, UK	Pico/poster
2022	Interfaces Against Pollution	Antwerp, Belgium	Speaker

B. National:

Date	Title of the Meeting	Role
2006	34 th Annual Conference of Israeli Society of Ecology and Environmental Quality Sciences, Haifa	Invited lecture
2007	72 nd Meeting of Israel Chemical Society, Tel Aviv	Invited lecture with partial reimbursement (50%)
2012	40 th Annual Conference of Israeli Society of Ecology and Environmental Quality Sciences, Tel Aviv	Invited lecture

8. Research Grants

A. International Competitive Grants:

Year	Granting Source	Duration (years)	Role*	Title (short)	Budget (US \$ / year)	
					Total	Researcher
2009	MOST Croatia-Israel Joint Research Program	2	CI	Dissolution and sorption of munitions constituents	25,000 (Israeli part)	7,500
2010	DFG (Deutsche Forschungsgemeinschaft) – trilateral Germany-Israel-PA Program	2	LPI	Wastewater from olive oil mills in Israel and Palestine: interactions with soil, organic contaminants and mechanisms of incorporation in soil	69,000 (Israeli part)	69,000
2014	DFG (Deutsche Forschungsgemeinschaft) – trilateral Germany-Israel-PA Program; one year continuation	1	LPI	Wastewater from olive oil mills in Israel and Palestine: interactions with soil.	15,250 (Israeli part)	8,720
2017	NIFA-BARD (USA-Israel)	3	LPI	Exposure risks of pathogens and disinfection byproducts from on-site treated rainwater and drainage water for irrigation	67,000 (Israeli part)	46,000
2017	Japan (NARO)-Israel (ARO)	3	CI	Treatment, use and impact of wastewater of different quality in agriculture	70,000 (Israeli part)	7,000

*PI = Principal Investigator; LPI= Local Principal Investigator; CI = Cooperating Investigator

B. National Competitive Grants:

Year	Granting Source	Duration (years)	Role*	Title (short)	Budget (US \$ / year)	
					Total	Researcher
1999	Technion Water Resources Center	1	PI	Organo-clays for treatment of industrial effluents	30,000	14,000
2000	Israel Science Foundation (ISF)	2	PI	Hydration effect on sorption and desorption of organic compounds by model soil organic matter	37,440	37,440

2001	Ministry for Environmental Protection	2	PI	Sorption of saturated hydrocarbons by soil organic matter	22,500	22,500
2003	Ministry for Environmental Protection	1	PI	Wastewater treatment monitoring using fluorescence spectroscopy and assessment of pollutant transport assisted by effluent dissolved organic matter	22,000	11,000
2003	Chief Scientist, Israel Ministry of Agriculture	3	CI	Binding of heavy metals to dissolved organic matter originating from the wastewater treated effluents and soil solutions	22,300	4,000
2004	Water Authority	2	PI	Using the fluorescence spectroscopy for characterization of dissolved organic matter in the Kinneret Lake and catchments basins and for monitoring of the water treatment process	25,500	12,000
2005	Ministry for Environmental Protection	1	PI	Use of the fluorescence spectroscopy for description of soluble organic matter in the Lower Kishon River –a new strategy for monitoring the influence of the industrial and waste water effluents on the river quality	18,000	9,000
2005	Chief Scientist, Israel Ministry of Agriculture	3	CI	Study of relation between microbial indicators and soil and compost suppressivity towards root disease	33,000	-
2007	Ministry of Science	3	CI	Novel tailored water treatment solutions based on clay nano-technologies	125,000	12,000
2008	ISF	3	PI	Thermal activation of clay-organic nano-composites: towards greater ability to interact with organic compounds in aqueous environments	35,000	27,000
2010	Chief Scientist, Israel Ministry of Agriculture	2	PI	Characterization of quality of treated wastewater effluents with focus on composition of dissolved organic matter	38,000	24,000
2011	Chief Scientist, Israel Ministry of Agriculture	3	CI	Dissolved organic matter in soils treated with organic wastes: characterization and	47,000	23,500

				contribution to soil structure stability		
2011	Chief Scientist, Israel Ministry of Agriculture	3	CI	The effect of the agricultural application of treated wastewater sludge on the fate of PPCPs in soil and plants	122,000	21,000
2011	Ministry for Environmental Protection	3	PI	Environmental impact of triclosan and galaxolide following application of wastewater biosolids to agricultural soils: assessment of sorption, degradation and potential antibiotic resistance propagation	24,500	24,500
2012	Hydrological Survey, Israel	1	PI	Monitoring of composition of natural organic matter in groundwater	10,000	10,000
2012	Ministry of Energy, Israel	3	CI	In situ fluorescence indices for identification and quantification of harmful algal bloom (HAB) in marine and fresh water ecosystems	13,500	1,500
2012	Chief Scientist, Israel Ministry of Agriculture	3	CI	Effect of humic substances on health of fishes in closed systems		-
2016	Chief Scientist, Ministry of Health, Israel	3	CI	Novel analytical methods to define organoleptic quality standards and health security in Israeli food products: olive oil and wine	20,700	2,600
2016	Chief Scientist, Israel Ministry of Agriculture	3	CI	Characterization of similar molecular components in waste-originating soil and dissolved organic matter, as a tool for evaluating the effect of organic amendments on soil contaminant transport	33,333	11,030
2016	Interdisciplinary Initiative [funded by Chief Scientist, Ministry of Agriculture]	3	CI	Soil Health Index: developing a multi-factor index for characterizing health of agricultural soils and examining in various scenarios	180,000	13,700
2017	Chief Scientist, Israel Ministry of Agriculture	3	CI	Defining optimal compost application rates for preventing soil structural damage	46,650	15,550

2017	Water Authority, Israel	1	Co-PI	Fast identification of microbial water contamination in “problematic” wells by means of spectral method	44,800	22,400
2017	Chief Scientist, Israel Ministry of Agriculture	2	CI	Optical field sensor system for monitoring quality of mixed irrigation water	56,000	10,360 (only the second year)
2022	Chief Scientist, Israel Ministry of Agriculture	3	CI	A novel integrated system to valorize anaerobic digestate for its safe reuse in agriculture	200,000	50,000

*PI = Principal Investigator; LPI= Local Principal Investigator; CI = Cooperating Investigator

9. Awards

Dates	Description
2011	Certificate of Appreciation from American Chemical Society for the reviewer’ service
2012	Selected as a Journal of Environmental Quality (JEQ) Outstanding Reviewer and acknowledged with a the certificate from ASA-CSSA-SSSA, a \$75 cash award
2014	Selected as a Journal of Environmental Quality (JEQ) Outstanding Reviewer and acknowledged with a the certificate from ASA-CSSA-SSSA, a \$75 cash award

Part II: LIST OF PUBLICATIONS

Marks (only for first authors):

X [*]	Equal contribution of first authors
X ^S	Student, technician, research engineer or post-doc <u>under my supervision</u>
X ^T	Technician or research engineer <u>working in my research team</u>
X ^{PD} , X ^{VS}	Post-Doc or Visiting Scientist <u>working in my research team</u>

1. Articles in Reviewed Journals

Russian journals have full English translated versions:

Zh. Fiz. Khim was translated as *Russian Journal of Physical Chemistry (Russ. J. Phys. Chem.)*

Zh. Obsch. Khim. was translated as *Journal of General Chem. of the U.S.S.R in English Translation*

- Solomonov, B.N., Konovalov, A.I., Novikov, V.B., Vedernikov, A.N., **Borisover, M.D.**, Gorbachuk, V.V. , Antipin, I.S. (1984).
Solvation of organic compounds. Molecular refraction, dipole moment, and enthalpy of solvation.
Zh. Obsch. Khim. 54: 1622-1632 (Russian).
- Solomonov, B.N., **Borisover, M.D.**, Konovalov, A.I. (1986).
Enthalpy of solvation of organic compounds - non-electrolytes in associated solvents.
Zh. Obsch. Khim. 56: 3-14 (Russian).
- Solomonov, B.N., **Borisover, M.D.**, Konovalova, L.K., Pavlova, A.A.^S, Konovalov, A.I. (1986).
Enthalpies of hydrogen bond formation of water with various proton acceptors.
Zh. Obsch. Khim. 56: 1345-1349 (Russian).
- Solomonov, B.N., **Borisover, M.D.**, Konovalov, A.I. (1987).
Enthalpy of specific interaction of solutes with the H-bonding associated solvents.
Zh. Obsch. Khim. 57: 423-431 (Russian).
- Borisover, M.D.**, Solomonov, B.N., Breus, V.A., Gorbachuk, V.V. ,Konovalov, A.I. (1988).
A comparison of methods for determination of the specific interaction enthalpy of a solute with a solvent.
Zh. Obsch. Khim. 58: 249-261 (Russian).
- Borisover, M.D.**, Solomonov, B.N., Konovalov, A.I. (1988).
Enthalpies of specific interaction of organic compounds in water.
Zh. Obsch. Khim. 58: 1893-1897 (Russian).
- Breus, V.A., Khafizov, F., **Borisover, M.D.**, Solomonov, B.N., Konovalov, A.I. (1990).
Enthalpies of specific interaction of acids with various proton acceptors.
Zh. Obsch. Khim. 60: 1147-1151 (Russian).
- Borisover, M.D.**, Solomonov, B.N., Konovalov, A.I. (1991).
An analysis of specific interaction enthalpies of nonelectrolytes in associated solvents.
Zh. Obsch. Khim. 61: 329-341 (Russian).
- Borisover, M.D.**, Baitalov, F.D., Solomonov, B.N. (1991).
Enthalpies and Gibbs free energies of hydration of aromatic hydrocarbons and their halogen-derivatives.

Zh. Obsch. Khim. 61: 2629-2638 (Russian).

10. **Borisover, M.D.**, Stolov, A.A., Izosimova, S.V., Baitalov, F.D., Breus, V.A., Solomonov, B.N. (1991).
Enthalpies of specific interaction of chloroethylenes in organic solvents.
Zh. Fiz. Khim. 65: 594-599 (Russian).
11. **Borisover, M.D.**, Stolov, A.A., Kudriavtsev, V.Yu., Solomonov, B.N. (1991).
Enthalpies of specific interaction of *o*, *o'*-di-*t*-butylphenol in organic solvents.
Zh. Fiz. Khim. 65: 312-315 (Russian).
12. Stolov, A.A.*, **Borisover, M.D.**, Solomonov, B.N., Kamalova, D.I., Izosimova, S.V., Pominov, I.S. (1992).
Hydrogen bonds with participation of the methyl groups of acetonitrile and nitromethane. Calorimetric and IR spectroscopic study.
Zh. Fiz. Khim. 66: 620-625 (Russian).
13. **Borisover, M.D.**, Baitalov, F.D., Solomonov, B.N. (1992).
Method for estimating the thermodynamic parameters of hydrophobic effect.
Zh. Obsch. Khim. 62: 1020-1026 (Russian).
14. **Borisover, M.D.**, Sirotkin, V.A., Solomonov, B.N. (1992).
Interaction enthalpies of human serum albumin in organic solvents.
Zh. Fiz. Khim. 66: 3130-3133 (Russian).
15. Gibadullina, H.V.*, **Borisover, M.D.**, Boos, G.A.*, Salnikov, Yu.I. (1993).
Thermodynamic data describing dissociation of ethylenediaminetetraacetic acid in water - dimethyl sulfoxide media at various temperatures.
Zh. Fiz. Khim. 67: 1-4 (Russian).
16. Solomonov, B.N., Chumakov, F.V., **Borisover, M.D.** (1993).
Multipole interactions and enthalpy of solvation.
Zh. Fiz. Khim. 67: 1289-1290 (Russian).
17. **Borisover, M.D.**, Stolov, A.A., Cherkasov, A.R., Izosimova, S.V., Solomonov, B.N. (1994).
Calorimetric and IR spectroscopic study of intermolecular interactions of water in organic solvents.
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2. Books and Invited Reviews

3. Book Chapters

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6. גיל א., שטינברגר י., ירמיהו א., פורמן א., **בוריסובר מ.**, סבוראי ט., דורמן מ., רינות א., מישאל י., איזנברג ת., צרור ל., לוי ג. (2022) מדריך לקביעת/מעקב מצב בריאות קרקע [המדריך מבוסס על תוצרי מיזם 20-03-0001 במימון המדען הראשי, משרד החלאות ופיתוח הכפר]

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2. **Borisover, M.**, Laor, Y., Levy G.J. (2014).
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3. Kurtz, M.P., Tamimi, N., Buchmann, C., Steinmetz, Z., Keren, Y., Peikert, B., **Borisover, M.**, Diehl, D., Marei, A., Shoqeir, J.H., Zipori, I., Dag, A., Schaumann, G.E. (2016).
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