



CURRICULUM VITAE

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I. Personal Data

Date of Birth	October 05, 1971
Place of Birth	Polyarnyj, Murmansk distr., Russia
Nationality	Russia
Status	Married, two daughters
Languages	Russian (mother tongue), English
Computer skills	Advanced PC user. Programming in Fortran; basic knowledge of computer simulations

II. Education. Academic Degrees Obtained

December 2015	Professor of Russian Academy of Sciences
March 2011	Habilitation (Doctor of Science) Subject: Polymer Physics Awarded by the Institute of Macromolecular Compounds, Russian Academy of Sciences, St. Petersburg, Russia. Title: Structure and dynamics of hyperbranched polymers and their complexes. Computer simulations.
November 2002	Participation in the school "Understanding of Molecular Simulations", Amsterdam, The Netherlands
January 1998	Candidate of Physics and Mathematics (Ph.D.) Subject: Polymer Physics Awarded by the Institute of Macromolecular Compounds, Russian Academy of Sciences, St. Petersburg, Russia. Title: Local Conformational Properties and Orientation of Macromolecules in a Strong External Field. Ph.D. Supervisor: Professor, Doctor of Sciences Yu.Ya. Gotlib, Institute of Macromolecular Compounds
September 1994	Master's Degree in Physics (ahead of schedule) Awarded by St.Petersburg (Leningrad) State University; St. Petersburg, Russia. Title: Conformational Changes and Orientation of Polymer Chains in a Strong External Field at the Different Dipole Moment Distributions along

the Chain. Tetrahedral Lattice model.

Supervisor: Professor, Doctor of Sciences Yu.Ya. Gotlib, Institute of Macromolecular Compounds

June 1993

Bachelor's Degree in Physics

Awarded by St.Petersburg (Leningrad) State University; St. Petersburg, Russia.

Supervisor: Professor, Doctor of Sciences Yu.Ya. Gotlib, Institute of Macromolecular Compounds

III. Main Grants and Awards

2017-2019	Megagrant of Russian Government (State agreement 14.W03.31.0014)
2016-2018	Russian Science Foundation grant № 16-13-10485
2015-2017	Russian Foundation of Basic Research (RFBR) grant 15-03-07614-a
2014-2015	Russian-Argentinian grant in the framework of Federal State Program of Russian Federation (State agreement 14.613.21.0024)
2014-2018	Megagrant of Russian Government (State agreement 14.Z50.31.0002)
2012-2013	Grant of Federal State Program (State agreement №8645)
2012-2013	Grant of Federal State Program (State agreement № № 8023)
2011-2013	FP7-Russia COMPANOCOMP project
2009	Grant of the Division of the Russian Academy of Sciences
2006-2008	Hellenic General Secretariat for Research and Technology PENED 2003 program, Grant No. 03EΔ716
2005	Scientific Fellowship of St.Petersburg Government (Russia) for Young Candidates of Scientists (PhD), grant PD05-1.3-101
2005	Academy of Finland grant 211579
2004	Grants of ESF programs SUPERNET for visit to group of Prof. Dr. M.A.J. Michels, Eindhoven University of Technology, The Netherlands
2005-2006	personal INTAS grant 05-109-4111
2000-2005	INTAS grants, 00-445, 00-712
1995-2003	INTAS grants 93-2502 and 93-2502-ext, 99-01114
2001-2003, 2005-2006	Grant of Russia-NWO (The Netherlands), project 99005725 personal NWO Grant 047.019.001
2003, 2002	Grants of ESF programs SIMU for visits in group of Prof. Dr. M.A.J. Michels, Eindhoven University of Technology, The Netherlands.
2003, 2001	Personal RFBR grants for young scientists 01-03-06275mac, 03-03-06379mac
2002	Outstanding Young Scientist of Russia, the state prize
1993 - 2013	RFBR grants: 93-03-5797, 96-03-33833, 99-03-3331, 00-03-42888, 01-03-42712, 02-03-33135, 05-03-32450, 08-03-00565, 11-03-92011-HHC_a, 11-03-00944-a, 13-03-00547 a
1996, 1996-1999	RFBR Grants for Leading Scientific School, 96-15-97401, 96-02780
1997	Scientific Grant of Government of St. Petersburg for young scientists M97-2.2K-643
1994-1997	Individual Grants of Soros Foundation: Soros graduate student, ISSEP-a97-312, Soros graduate student, ISSEP-a96-2156, Soros student, grant ISSEP-99_s
1996	Grant of "Nauka" (Interperiodika) Publishing for outstanding publications in the Russian Journal "Polymer Science"
1995-1996	Grant of International Scientific Foundation (ISF), grants NT-9000 and NT-9300

V. Professional Background

2015, Jun – now	Director of the Institute of Macromolecular Compounds, Russian Academy of Sciences, St. Petersburg, Russia.
2015, Feb – 2015, Jun	Vice-director of the Institute of Macromolecular Compounds, Russian Academy of Sciences, St. Petersburg, Russia.
2014-now	Vice-head of international laboratory “Multiscale experimentation and modeling of polymer composites based on advanced thermoplastic matrices for industrial applications”
2013-now	Head of Laboratory of Theory and Computer Simulation of Polymer Systems, Institute of Macromolecular Compounds, Russian Academy of Sciences, St. Petersburg, Russia.
2012-now	Associate Professor of Saint-Petersburg State University
2011-2013	Leading Research Fellow Laboratory of Theory and Computer Simulation of Polymers, Institute of Macromolecular Compounds, Russian Academy of Sciences, St. Petersburg, Russia.
2006 – 2011	Senior Research Fellow, Laboratory of Theory and Computer Simulation of Polymers, Institute of Macromolecular Compounds, Russian Academy of Sciences, St. Petersburg, Russia.
2006	Research Fellow in Helsinki University of Technology, Academy of Finland grant 211579 (Prof. I.Vattulainen group)
November 1997 - 2005	Scientific Fellow Laboratory of Theory and Computer Simulation of Polymers, Institute of Macromolecular Compounds, Russian Academy of Sciences, St. Petersburg, Russia.
October 1994 - November 1997	Post-Graduate Student Laboratory of Theory and Computer Simulation of Polymers, Institute of Macromolecular Compounds, Russian Academy of Sciences, St. Petersburg, Russia.
September 1988 - September 1994	Student St.Petersburg (Leningrad) State University; St.Petersburg, Russia.

VI. Scientific Fields and Expertise

2011-now	Multi-scale computer simulations of Polyimides, other thermoplastic polymers and polymer nanocomposites based on them, including biocomposites
2011	Certificate of Appreciation of American Chemical Society
2009	Expert of USA National Science Foundation

2001-now	Permanent collaboration with Eindhoven University of Technology, Helsinki University of Technology and Aristotle University of Technology
2001-2012	Brownian Dynamics and Molecular Dynamics simulation of neutral and charged Hyperbranched polymers and their complexes with linear polyelectrolytes. Equilibrium and dynamic properties. Effect of the solvent quality and internal topology. Overcharging.
1996-2003	The calculation of order parameters, electric birefringence values, and conformational characteristics of the polymer systems under the influence of the strong external field, taking into account the initial polymer chain rigidity and type of dipole moments distribution. Comparison with other models and with the experimental Kerr effect data for poly(butyl isocyanates). Computer simulation of linear chain in the external field of quadrupole symmetry.
1993-2000	Investigation of rotational isomeric state theory of orientation in the strong fields of flexible polymer chains and polymer networks.
1995-2000	Development of three-chain-model theory of Infra-Red dichroism of elastomers. Theoretical investigations of relations between conformational properties and the observed dichroic functions for different types of vibrations. Comparison with the known computer simulations results.

VII. Other Scientific Information

2011 - now	Head of Research-Educational Center “Computer simulations of nanosystems in material science and biology”
2014, 2015	Vice-chairman of 10-th and 11-th Scientific conference for young scientists “Modern problems of polymers”
2014, 2015	Vice-chairman of 1-st and 2-nd International Conference on Thermoplastic polymers.

Total number of papers indexed in Web of Science – 51

Hirsh index 14

Total number of patents - 2

VIII. Other Interests

Russian culture, history and religion, modern Russian music, modern Art, different kinds of garden works.

IX. Most important projects

1. «Structural properties of fullerene-filled nanocomposites based on functional heterocyclic polymers: molecular dynamics simulations», Russian Foundation of Basic Research (project № 15-03-07614-a), 2015-2017, 1 500 000 roubles.
2. “Grafted polymer systems. Theory and multiscale computer simulations.” Russian Science Foundation, project № 16-13-10485, 2016-2018, 14 500 000 roubles
3. «Multiscale experimentation and modeling of polymer composites based on advanced thermoplastic matrices for industrial applications» Megagrant of Russian Government to open new labs under the supervising of leading scientists, State agreement 14.Z50.31.0002, 2014-2018, 120 000 000 roubles.

4. “Rational design of biocompatible materials based on chemically modified cellulose” Megagrant of Russian Government to open new labs under the supervising of leading scientists, State agreement 14.W03.31.0014, 2017-2019, 90 000 000 roubles.
5. “Development and study of new polymer nanocomposites based on the results of multiscale computer simulations”, project № 8023 of Russian Federal State program, 2012-2013, 5 950 000 roubles.
6. “Multiscale computer simulation of polymer nanocomposites based on polyimides ULTEM and EXTEM”, project № 8645 of Russian Federal State program, 2012-2013, 2 750 000 roubles.
7. “Multiscale modeling as a tool for Virtual Nanotechnology Experimentation”, FP7-Russia COMPANOCOMP project, EU Grant Agreement Nr. 295355, Project № № 16.523.12.3001 of Russian Federal State Program, 2011-2013, 1 500 000 EURO and 66 700 000 roubles.