

MIKHAIL A. ANISIMOV – CURRICULUM VITAE – April 16, 2008

University of Maryland, College Park, MD 20742, USA

Phone: (301) 405-8049 Fax: (301) 314-9404 E-mail: anisimov@umd.edu

<http://www.glue.umd.edu/~anisimov/>

PERSONAL INFORMATION

Place of birth Baku, Azerbaijan, U.S.S.R.
Family Married, four children
Citizenship US citizen
Home address 11005 Emack Road, Beltsville, MD 20705
Home telephone (301) 931-9053

EDUCATION AND DEGREES

Kurchatov Institute of Atomic Energy	D.Sc. (Molecular and Thermal Physics)	1974
Moscow State University, Russia	Ph.D. (Chemical Physics)	1969
Grozny Petroleum Institute, Russia	Engineer Diploma, <i>Cum Laude</i> (Chemical Engineering)	1964

PRESENT POSITIONS

Professor 01/2002	Department of Chemical & Biomolecular Engineering and Institute for Physical Science & Technology, University of Maryland, College Park
Affiliate Professor 04/2005	Department of Chemistry and Biochemistry, University of Maryland, College Park
Guest Researcher 07/2002	National Institute of Standards and Technology, Gaithersburg, MD
Professor 06/1998	Chemical Physics Program, University of Maryland, College Park

PREVIOUS POSITIONS

Senior Research Scientist and Affiliate Professor 1997 - 2001	Department of Chemical Engineering and Institute for Physical Science & Technology, University of Maryland, College Park
Associate Research Scientist and Affiliate Professor 1996	Institute for Physical Science and Technology, University of Maryland, College Park
Visiting Professor 1994-1995	Institute for Physical Science and Technology, University of Maryland, College Park
Department Head 1989-1993	Department of Physics, Institute for Oil and Gas Research of the Russian Academy of Sciences, Moscow, U.S.S.R./Russia
Professor of Physics (part time) 1989-1993	Moscow State Academy of Oil and Gas, U.S.S.R./Russia
Visiting Scientist 09/1987-03/1988	Center of Material Science and Engineering, Massachusetts Institute of Technology, Cambridge, MA, USA
Professor and Chair 1978-1988	Department of Physics, Moscow State Academy of Oil and Gas, U.S.S.R.
Affiliate Professor 1975-1977	Moscow State University, Department of Physical Chemistry, U.S.S.R.
Head of Laboratory 1971-1977	Institute for Physical and Radio-Technical Measurements of the U.S.S.R. National Bureau of Standards, Mendeleev, U.S.S.R.
Research Associate 1969-1971	Institute for Physical-Technical and Radio-Technical Measurements of the U.S.S.R. National Bureau of Standards, Mendeleev, U.S.S.R.
Teaching Assistant and Research Assistant 1965-1968	Department of Physical Chemistry Moscow State University, U.S.S.R.

RESEARCH, SCHOLARLY, AND CREATIVE ACTIVITIES

a. Publications

More than 200 scientific publications (books, chapters in books, reviews, encyclopedia articles, journal and symposium articles). A list of 154 publications in English is attached.

b. Research Grants (last 7 years)

NASA (04/01/03-03/31/08) PI: Experimental Investigation of Impurity Effects on Two-Phase Isochoric Heat Capacity near the 3He critical point (\$380,000).
NIST (04/01/01-09/23/03) PI: Acoustic Study of Near-Critical Fluids (\$167,000).
DOE (12/15/00 -31/03/04) Co-PI: Crossover Critical Phenomena in Molecular and Complex Fluids (\$ 432,000).
NSF (8/1/98-7/31/01), Co-PI: Experimental Study of Criticality and Crossover phenomena in Complex Fluids (\$413,000).
DOE (12/15/97-12/14/00), Co-PI: Thermophysical Properties of Fluids and Fluid Mixtures (\$420,000).
IAPWS (10/97-9/30/98) PI: International Cooperative Project on Scaled Equation of State for Near-Critical Mixtures of Heavy and Light Steam (\$20,000).

c. Fellowships, Prizes and Awards

Recognition for outstanding volunteer service to the American Institute of Chemical Engineers	2006
Foundation for Science and Technology International Award, Gunma University, Japan	2006
International Activity Award, University of Maryland, College Park	2005
International Travel Award, University of Maryland, College Park	2004
Elected Fellow (“Academician”) of the International Academy of Refrigeration	2003
Elected Fellow of the American Association for the Advancement of Science	2002
Elected Fellow of the American Physical Society	1998
Elected Member of the New York Academy of Sciences	1995
Israel International Exchange Fellowship (visiting professor at the University of Tel-Aviv, Israel)	1993
DDAD Fellowship (visiting professor at München Technical University, Germany))	1993
IREX Fellowship (visiting scholar at MIT, USA)	1987
CNRS International Exchange Fellowship (visiting scientist at College de France, Paris and P. Pascal Center for Research, Bordeaux, France)	1985
Board of Honor, Gubkin State Academy of Oil and Gas, U.S.S.R.	1981
Professor of Physics Chair – Distinguished Academic Title awarded by the U.S.S.R. Supreme Testimonial Commission	1979
Doctor of Physics and Mathematics – Distinguished Academic Degree awarded by the U.S.S.R. Supreme Testimonial Commission for outstanding research achievements	1976
Silver Medal of the Exhibition of Nation's Achievements of the U.S.S.R.	1976
Senior Researcher in Thermophysics – Distinguished Research Scientist Title awarded by the U.S.S.R. Supreme Testimonial Commission	1973
Honor Graduate Student of Moscow State University	1968
Honor (“Red”) Diploma of Chemical Engineer	1964
Silver Medal of the National Student Research Conference (Moscow, U.S.S.R.)	1962

d. Editorial Boards

“International Journal of Thermophysics” (USA), “Phase Transitions” (UK),
“Supercritical Fluids: Theory and Applications” (Russia), “Molecular Crystals and Liquid Crystals” (USA)
“International Journal of Applied Statistical Mechanics: Liquids and Soft Matter” (China) – Honorable Member of Editorial Board
“International Journal of Thermophysics” (USA), “Phase Transitions” (UK),

TEACHING AND ADVISING

a. Courses taught at the University of Maryland at College Park

Spring 1994	Graduate Course “Critical Phenomena and Phase Transitions”
Falls 1994-1996, 1998, 1999	Undergraduate Course “Chemical Process Thermodynamics”
Falls 1997, 2000-2006	Graduate Course “Chemical Engineering Thermodynamics”

Falls 2004 and 2006
Springs 2000 and 2002
Spring 2000
Spring 2001

Undergraduate Course "Chemical Engineering Thermodynamics"
Undergraduate Course "Introduction to Engineering Design"
Graduate Seminar in Chemical Physics Program: Statistical Physics
Undergraduate Course "Transport Phenomena II" (Heat and Mass Transfer)

Falls 2004 and 2006

Undergraduate Course "Chemical Engineering Thermodynamics"
Elective Course "Mesoscopic and Nanoscale Thermodynamics"

Springs 2003-2007

Springs 2003-2007

Undergraduate Research "Thermodynamics at Nanoscales"

b. Advising

Research Advisor of 38 Ph.D. projects (list of directed Ph.D. theses, 1973-2006, is available upon request)
Faculty Mentor, Undergraduate Research Assistant Program
Undergraduate Advisor (Chemical & Biomolecular Engineering)

SERVICE

a. Professional

i. Offices and memberships held in professional organizations

- 1 American Physical Society (Fellow)
- 2 American Association for the Advancement of Science (Fellow)
- 3 American Chemical Society
- 4 International Academy of Refrigeration (Fellow)
- 5 IUPAC Subcommittee on Transport Properties, Corresponding Member
- 6 Director, National Capital Section of the American Institute of Chemical Engineers
- 7 Subcommittee on Properties of Water and Steam of the American Society of Mechanical Engineers
- 8 Council for Coordination in Thermophysical Research of the Russian Academy of Sciences
- 9 Advisory Board, Institute for Oil and Gas Research of the Russian Academy of Sciences
- 10 International Liquid Crystal Society

ii. Reviewing activities for agencies

Reviewer of research articles for Phys. Rev. Letters, Phys. Rev., J. Chem. Phys., J. Phys. Chem., and other journals.
Reviewer of research proposals for NSF, DOE, and ACS.

iii. Program Chair, Member of Advisory Board, or Session Organizer

13th, 14th, 15th, and 16th Symposia on Thermophysical Properties, Boulder, Colorado, 1997, 2000, 2003, and 2006.
OSA Topical Meetings on Photon Correlation Spectroscopy, Capri, Italy, 1996; Vancouver, Canada, 2000; Amsterdam, The Netherlands, 2004.
AIChE 2000 Annual Meeting, Los Angeles (Thermodynamics of Polymers II and III).
Mid-Atlantic Meeting on Thermodynamics, College Park, Maryland, 2002. (Program Chair)
AIChE 2002 Annual Meeting, Indianapolis (Thermodynamic Properties and Phase Behavior II).
AIChE 2004-2007 Annual Meetings (Thermodynamics at Nanoscale I and II).
International Meeting on Thermodynamics (Thermo-2005), College Park, Maryland, April 2005 (Program Chair).
3rd and 4th International Conferences "Physics of Liquid Matter: Modern Problems", Kiev, Ukraine May 2005 and May 2008.
11th Russian Conference on Thermophysical Properties, October 2005, St.-Petersburg, Russia

iv. Invited Conference Lecturer (last 8 years)

NATO Advanced Study Institute on Supercritical Fluids, Kemer, Turkey, 1998.
International Congress on "Scattering Studies of Mesoscopic Scale Structure and Dynamics in Soft Matter", Messina, Italy, November 2000.
14th Symposium on Thermophysical Properties, Boulder, Colorado, 2000.
NATO Advanced Research Workshop "New kinds of phase transitions: transformations in disordered substances",

Moscow, Russia, May 2001.
 Scaling Concepts and Complex Systems, Merida, Mexico, July 2001.
 76th International Bunsen Discussion Meeting “Global Phase Diagrams”, Walberberg, Germany, August 2001.
 NATO Advanced Research Workshop "Nonlinear Dielectric Phenomena in Complex Liquids, Ustron-Jaszowiec, Poland, May 2003.
 15th Symposium on Thermophysical Properties, Boulder, Colorado, June 2003.
 International Workshop on Dynamics in Complex Fluids, Princeton, August 2003.
 International Conference on Applied Statistical Physics, Puerto Vallarta, Mexico, August 2003.
 International Conference on the Properties of Water and Steam, Kyoto, Japan, August 2004.
 3rd International Conference "Physics of liquid matter: Modern Problems”, Kiev, Ukraine May 2005.
 Gordon Research Conference on Liquid Crystals, New Hampshire, June 2005.
 NATO Advanced Research Workshop "Soft Matter under Exogenic Impacts, Odessa, Ukraine, October 2005.
 7th Ibero-American Workshop on Complex Fluids and their Applications, Playa del Carmen, Mexico, October 2005.
 Landau Days-2006, Chernogolovka, Russia, June 2006.
 16th Symposium on Thermophysical Properties, Boulder, Colorado, July 2006.
 11th European Meeting on Supercritical Fluids, Barcelona, Spain, May 2008.

v. Invited Seminar Speaker (last 8 years)

Harvard University, MIT, Bell Labs, München Technical University, Moscow State University, Russian Academy of Sciences, University of Erlangen-Nürnberg, University of Salzburg, NIST, NIH, University of Delaware, Exxon Research Lab, Oak Ridge National Lab, Caltech-JPL, John Hopkins University, University of Madrid, Technical University of Delft, University of Waterloo, University of New York at Stony Brook, University of New York at Binghamton, Cornell University, College of Wooster, University of Essen, Ruhr University, Jülich Nuclear Research Center, University of Colorado at Boulder, Perdue University, Rice University, Los Alamos National Lab, Princeton University, University of Edinburgh (UK), Cambridge University (UK), University of Loughborough (UK), University of Bremen (Germany), Max-Plank Institute (Mainz, Germany), ESRF (Grenoble, France), University of Tokyo, Gunma University (Japan), University of Kyoto, University of California at Santa Barbara, University of Virginia (Charlottesville), University of Rome "Tor Vergata" (Italy), International Centre of Theoretical Physics (Trieste, Italy), University of Ljubljana (Slovenia), University of California at Los Angeles, Yale University, Boston University

vi. International Collaboration

Russian Academy of Sciences, Indian Institute of Physics, University of Buenos Aires, Technical University of Delft, Ruhr University, University of Madrid, University of Bremen, University of Kyoto and Gunma University (Japan).

vii. Consulting

Exxon 1998, Shell 1999, Caltech-NASA (Jet Propulsion Laboratory) 1999-2006, Institute for Regulatory of Science 2001, GAF Corporation 2003-2004, PhotoCor Instruments 2000-2007.

b. Campus

University of Maryland-College Park Senate
 Chair, APT Committee (A. J. Clark School of Engineering)
 University of Maryland Fulbright Student Selection Committee
 Faculty Salary Committee (Institute for Physical Science and Technology)
 Ph.D. and MS Committees (Chemical Physics Program and Chemical Engineering Program)
 Graduate qualifying exams (Chemical Physics Program)
 Research Aptitude Exams (Chemical Engineering Program)

c. Communal service

Member of the Prince George’s County Literacy Council
 High School Science Project Advisor

MIKHAIL A. ANISIMOV – PUBLICATIONS (Attachment to Curriculum Vitae, April 16, 2008)

a. Books

i. Books authored

1. M. A. Anisimov "Critical Phenomena in Liquids and Liquid Crystals", Gordon & Breach Science Publishers, 1991, 431 pages. (Revised and updated English Edition. First Russian edition: Nauka, Moscow, 1987).
2. M. A. Anisimov, V. A. Rabinovich, and V. V. Sychev "Thermodynamics of the Critical State of Individual Substances", English Edition: CRC Press, Boca Raton, 1995, 171 pages. (Russian Edition: Energoatomizdat, Moscow, 1990).

ii. Chapters in books

1. M. A. Anisimov and J. V. Sengers "Critical region", Chapter 11 in *"Equations of State for Fluids and Fluid Mixtures"*, J. V. Sengers, R. F. Kayser, C. J. Peters, and H. J. White, Jr., eds., pp. 381-434, Elsevier, Amsterdam, 2000.
2. M. A. Anisimov, J. V. Sengers, and J. M. H. Levelt Sengers "Near-critical behavior of aqueous systems", as Chapter 2 in *"The Physical Properties of Aqueous Systems at Elevated Temperatures and pressures: Water, Steam and Hydrothermal Solutions"*, D. A. Palmer, R. Fernandez-Prini, and A. H. Harvey, eds., pp. 29-72, Academic Press, 2004.
3. M. A. Anisimov "Thermodynamics at the Meso- and Nanoscale" in *"Dekker Encyclopedia of Nanoscience and Nanotechnology"*, J. A. Schwarz, C. Contescu, and K. Putyera, eds., pp. 3893-3904, Marcel Dekker, New York, 2004.
4. I. K. Yudin and M. A. Anisimov "Dynamic Light Scattering Monitoring of Asphaltene Aggregation in Crude Oils and Hydrocarbon Solutions". Chapter 17 in *Asphaltene, Heavy Oils and Petroleomics*, edited by O. C. Mullins, E. Y. Sheu, A. Hammami, and A.G. Marshall, eds., pp 431-460, Springer, 2006.

b. Articles in Refereed Journals

i. Review articles

1. M. A. Anisimov "Investigation of the Critical Phenomena in Liquids", Sov. Phys. Uspekhi (Adv. in Physics), **17**, 722-744 (1975).
2. M.A. Anisimov, E. E. Gorodetskii, and V. M. Zaprudskii "Phase Transitions with Coupled Order Parameters", Sov. Phys. Uspekhi (Adv. in Physics), **24**, 57-75 (1981).
3. M.A. Anisimov and S. B. Kiselev "Thermophysical Properties of Liquids and Liquid Solutions in the Critical Region", Sov. Tech. Rev. B - Therm. Phys., **1**, 337-424, Gordon & Breach Science Publishers, 1987.
4. M.A. Anisimov "Critical Phenomena in Liquid Crystals", Mol. Cryst. Liq. Cryst. **162A**, 1-96 (1988), Special Topics XXXI.
5. M.A. Anisimov and S. B. Kiselev "Universal Crossover Approach to Description of Thermodynamic Properties of Fluids and Fluid Mixtures", Sov. Tech. Rev. B. - Thermal Phys., volume 3, part 2, 1-119, Gordon & Breach Science Publishers, 1992.
6. M. A. Anisimov and J. V. Sengers "Critical and crossover phenomena in fluids and fluid mixtures", in *"Supercritical Fluids – Fundamentals and Applications"*, E. Kiran, P. G. Debenedetti, and C. J. Peters, eds., 89-121, Kluwer, Dordrecht, 2000.

ii. Refereed Articles (in English)

1. M. A. Anisimov and M. I. Shakhparonov "Light Scattering at the Critical Point for the Formation of Two Layers in a Binary Liquid System", Russ. J. Phys. Chem. **40**, 1254-1256 (1966).
2. M. A. Anisimov, G. G. Muttik, D. K. Beridze, and M. I. Shakhparonov "Critical Opalescence in n-Pentyl Alcohol-Nitromethane Mixtures", Russ. J. Phys. Chem. **44**, 19-22 (1970).
3. M. A. Anisimov and D. K. Beridze "Critical Opalescence in an n-Pentyl Alcohol-Nitromethane Mixture. II. Analysis and Discussion of the Results", Russ. J. Phys. Chem. **44**, 236-238 (1970).
4. M. A. Anisimov and D. K. Beridze "Critical Opalescence in n-Pentyl Alcohol-Nitro-methane Mixtures. III. Degree of Depolarization", Russ. J. Phys. Chem. **44**, 344-346 (1970).
5. M. A. Anisimov, A. V. Voronel, and E. E. Gorodetskii "Isomorphism of Critical Phenomena", JETP **33**, 605-

612 (1971).

6. M. A. Anisimov "Thermodynamic Properties of Binary Solutions Along the Critical Liquid-Gas Equilibrium Line", *Russ. J. Phys. Chem.* **45**, 439-441 (1971).
7. M. A. Anisimov "Thermodynamics of Critical Phenomena in Solutions. The Choice of Thermodynamic Variables", *Russ. J. Phys. Chem.* **45**, 877-878 (1971).
8. M. A. Anisimov, A. V. Voronel, N. S. Zaugol'nikova, and G. I. Ovodov "Specific Heat of Water Near the Melting Point and Ornstein-Zernike Fluctuation Corrections", *JETP Letters* **15**, 317-319 (1972).
9. M. A. Anisimov, A. V. Voronel, and T. M. Ovodova "Experimental Investigation of the Singularity of Specific Heat at the Critical Stratification Point of a Binary Mixture", *JETP* **34**, 583-587 (1972).
10. M. A. Anisimov, I. M. Aref'ev, A. V. Voronel, V.P. Voronov, Y. F. Kiyachenko, and I. L. Fabelinskii "Propagation of Sound Near the Binary-Mixture Stratification Critical Point", *JETP* **34**, 813-818 (1972).
11. M. A. Anisimov, A. V. Voronel, and T. M. Ovodova "The Behavior of Thermodynamic Quantities Near the Critical Line of an "Incompressible" Liquid Mixture", *JETP* **35**, 536-539 (1972).
12. M. A. Anisimov, E. E. Gorodetskii, and Y. F. Kiyachenko "Effect of Anomalies of the Kinetic Coefficients Near the Critical Points of Liquids on the Nature of High-Frequency Sound Propagation", *JETP*, **35**, 1014 (1972)
13. M. A. Anisimov, E. E. Gorodetskii, and N. G. Shmakov "Experimental Verification of the Isomorphism Hypothesis of Critical Phenomena", *JETP* **36**, 1143-1150 (1973).
14. I. M. Aref'ev, I. L. Fabelinskii, M.A. Anisimov, Y. F. Kiyachenko, and V.P. Voronov "Mandelstam-Brillouin Spectra in the Critical Mixture of Nitroethane-Isocetane", *Optics Comm.* **9**, 69-73 (1973).
15. M. A. Anisimov, V.P. Voronov, V. M. Malyshev, and V.V. Svadkovskii "Experimental Verification of the Dynamic Scale Theory of the Critical Point", *JETP Letters* **18**, 133-137 (1973).
16. M. A. Anisimov, A. T. Berestov, L. S. Veksler, B.A. Kovalchuk, and V. A. Smirnov "Scaling Theory and the Equation of State of Argon in a Wide Region Around the Critical Point", *JETP* **39**, 359-365 (1974).
17. M. A. Anisimov, A.M. Evtyushenkov, Y. F. Kiyachenko, and I. K. Yudin "Investigation of the Correlation Function Near the Critical Point of the Binary Mixtures", *JETP Letters* **20**, 170-171 (1974).
18. M. A. Anisimov, V. S. Esipov, V. M. Zaprudskii, N. S. Zaugol'nikova, G. I. Ovodov, T. M. Ovodova, and A. L. Seifer "Anomaly in the Heat Capacity and Structural Phase Transformation of the Ordering Type in an Aqueous Solution of t-Butanol", *JETP Letters* **21**, 476-479 (1975).
19. M. A. Anisimov, S. R. Garber, V. S. Esipov, V. M. Mamnitskii, G. I. Ovodov, L. A. Smolenko, and E. L. Sorkin "Anomaly in the Heat Capacity and the Nature of the phase transition from an Isotropic liquid to a nematic Liquid crystal", *JETP*, **45**, 1042-1047 (1977).
20. M. A. Anisimov, V. S. Esipov, V. M. Zaprudskii, N. S. Zaugol'nikova, G. I. Ovodov, T. M. Ovodova, and A. L. Seifer "Anomaly in the Heat Capacity and Structural Phase Transformation of the Ordering Type in an Aqueous Solution of t-Butanol", *J. Struct. Chemistry* **18**, 663-670 (1977).
21. M. A. Anisimov, A. T. Berestov, V. P. Voronov, Y. F. Kiyachenko, B. A. Kovalchuk, V. M. Malyshev, and V. A. Smirnov "Critical Exponents of Liquids", *JETP* **49**, 844-848 (1979).
22. M. A. Anisimov and V. M. Zaprudskii "Effect of the Metal-Insulator Transition on the Critical State of Conducting Liquids", *Sov. Phys. Dokl.* **24**, 187-188 (1979).
23. M. A. Anisimov, V. M. Mamnitskii, and E. L. Sorkin "Tricritical Behavior of Nematic Crystals near the Transition to an Isotropic Liquid", *JETP Letters* **30**, 491-494 (1979).
24. M. A. Anisimov, Yu. F. Kiyachenko, G. L. Nikolaenko, and I. K. Yudin "Measurement of the Viscosity of Liquids and the Dimensions of Suspended Particles by the Method of Correlation Optical-Mixing Spectroscopy", *J. Eng. Phys. (U.S.S.R.)* **38**, 387-390 (1980).
25. M. A. Anisimov, V. M. Zaprudskii, G. A. Milner, and E. L. Ponomarenko "Orientational Phase Transitions in Ammonium Bromide at High Pressure", *JETP* **53**, 397-404 (1981).
26. M. A. Anisimov and R. U. Tankaev "Melting of Ice Near a Hydrophilic Surface", *JETP* **54**, 110-114 (1981).
27. M. A. Anisimov, V. M. Mamnitskii, and E. L. Sorkin "Anomalies of the Specific Heat in the Vicinity of the Phase Transition From Isotropic Liquid to Nematic Liquid Crystal", *J. Eng. Phys. (U.S.S.R.)* **39**, 1385-1390 (1981).
28. M. A. Anisimov and G. I. Ovodov "Mechanism of the Structural Phase Transformations in Aqueous Solutions of Electrolytes. Heat Capacity of the Tetrahydrofuran-Water", *J. Structural Chem.* **22**, 297-298 (1981).
29. M. A. Anisimov, A. T. Berestov, and S. B. Kiselev "Isomorphous Equation of State in a Broad Vicinity of the Critical Point of a Binary Mixture", *JETP* **55**, 667-673 (1982).
30. M. A. Anisimov "Nature of Nematic - Smectic A Phase Transition in Liquid Crystals", *JETP Letters* **37**, 11-14 (1983).
31. M. A. Anisimov, E. E. Gorodetskii, and V. E. Podnek "Effect of Smectic Fluctuations on Pre-transitional Phenomena in the Isotropic Phase of a Nematic Liquid Crystal", *JETP Letters* **37**, 414-418 (1983).
32. M. A. Anisimov, V.P. Voronov, Yu. F. Kiyachenko, and V. M. Merkulov "The Homogeneous Behavior of Absorption and Dispersion of Ultrasound in the Isotropic Phase of a Nematic Liquid Crystal", *Mol. Cryst.*

- Liq. Cryst. **104**, 273-279 (1984).
33. M. A. Anisimov, V.P. Voronov, A. S. Goldenstein, E. E. Gorodetskii, Y. F. Kiyachenko, and V.M. Merkulov "Universality of Critical Dynamics in Nematic Liquid Crystals", JETP **60**, 1134-1142 (1984).
34. M. A. Anisimov, S. B. Kiselev, and I. G. Kostyukova "A Scaled Equation of State for Real Fluids in the Critical Region", Int. J. Thermophys. **6**, 465-481 (1985).
35. M. A. Anisimov, V. P. Voronov, A. O. Kulkov, and F. Kholmurodov "Adiabatic Calorimetry Measurements in the Vicinity of the Nematic Smectic A -Smectic C Multicritical Point", J. de Physique **46**, 2137-2143 (1985).
36. M. A. Anisimov, V. I. Labko, G. L. Nikolaenko, and I. K. Yudin "Influence of Smectic Ordering on the Pretransitional Light-Scattering Behavior in the Isotropic Phase of Liquid Crystals", Mol. Cryst. Liq. Cryst. Lett. **2**, 77-83 (1985).
37. M. A. Anisimov, V. P. Voronov, A. O. Kulkov, and F. Kholmurodov, JETP Letters **41**, 302-306 (1985).
38. M. A. Anisimov, V.P. Voronov, E. E. Gorodetskii, V. E. Podnek, and F. Kholmurodov "Observation of the Halperin - Lubensky – Ma Effect in a Liquid Crystal", JETP Letters **45**, 425-429 (1987).
39. M. A. Anisimov, V. P. Voronov, A.O. Kulkov, V. N. Petukhov, and F. Kholmurodov "High Resolution Adiabatic Calorimetry Measurements in the Vicinity of the Liquid Crystal Phase Transition", Mol. Cryst. Liq. Cryst. **150 B**, 399-418 (1987).
40. M. A. Anisimov, N. F. Kazakova, A. S. Kurlyandskii, and S. A. Pikin "Thermodynamic Description of Phase Transition of Micelle Formation", Sov. Phys. Crystallography **32**, 645-649 (1987).
41. M. A. Anisimov "Universality of the Critical Dynamics and the Nature of the Nematic-Isotropic Phase Transition", Mol. Cryst. Liq. Cryst. **146**, 435-461 (1987).
42. M. A. Anisimov, S. A. Konev, V. I. Labko, G. L. Nikolaenko, G. I. Oliferenko, and I. K. Yudin "Light-Scattering Study of Thermotropic Liquid Crystals and Micellar Solutions", Mol. Cryst. Liq. Cryst. **146**, 421-434 (1987).
43. M. A. Anisimov, V. I. Labko, G. L. Nikolaenko, and I. K. Yudin "Renormalization of the Susceptibility in the Isotropic Phase of a Liquid Crystal Due to an Interaction of the Orientational and Translational Order Parameters", JETP Letters **45**, 111-114 (1987).
44. M. A. Anisimov, K. I. Kugel, and T. Y. Lisovskaya "Thermodynamics of the Phase Transition in Liquid Sulfur and Sulfur Solutions", Teplofiz. Vys. Temp. (High Temperature) **25**, 165-173 (1987).
45. M. A. Anisimov, S. B. Kiselev, and I. G. Kostyukova "Scaled Equation of State and Thermodynamic Properties of Steam in the Critical Region", Teplofiz. Vys. Temp. (High Temperature) **25**, 27-34 (1987).
46. M. A. Anisimov, S. B. Kiselev, and S. Khalidov "Scaled Equation for Isochoric Heat Capacity of Methane-Ethane Mixture in Critical Region", Int. J. Thermophys. **9**, 453-464 (1988).
47. M. A. Anisimov and V.P. Voronov "Alternative Universality for a NAC Multicritical Point Topology", Liq. Cryst. **3**, 403-407 (1988).
48. M. A. Anisimov, R.R. Bashirov, and Z. R. Gadzhieva "Thermodynamics of Phase Equilibria of Nonmesogenic Substances in Nematic Liquid Crystals", Sov. Phys. Crystallography. **33**, 290-292 (1988).
49. M. A. Anisimov, A. S. Kurlandsky, and N. F. Kazakova "Micellization as a Phase Transition", Mol. Cryst. Liq. Cryst. **159**, 87-97 (1988).
50. M. A. Anisimov, S. B. Kiselev, and I. G. Kostyukova "Asymmetric Scaled Equation of State and Critical Behavior of Binary Mixtures", J. of Heat Transfer **110**, 986-990 (1988).
51. M. A. Anisimov, P. E. Cladis, E. E. Gorodetskii, David A. Huse, V. E. Podneks, V. G. Taratuta, Wim van Saarloos, and V.P. Voronov "Experimental Test of a Fluctuation Induced First Order Phase Transition: the Nematic - Smectic A Transition", Phys. Rev. A **41**, 6749-6762 (1990).
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