

## PERSONAL INFORMATION

### Theodor Dimitrov Gurkov



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Sex Male | Date of birth 17/04/1962 | Nationality Bulgarian

## POSITION

Top specialists for the conduction of applied, targeted, experimental researches and development/modification of new technologies in Centre of Competence "Smart Mechatronic, Eco- And Energy Saving Systems And Technologies"

## WORK EXPERIENCE

04.2016 – until now

### Full Professor of Theoretical Chemistry

Department of Chemical and Pharmaceutical Engineering, Faculty of Chemistry and Pharmacy, Sofia University "St. Kliment Okhridski", James Bourchier Avenue 1, Sofia 1164, Bulgaria

2002 - 2006

### Associate Professor of Theoretical Chemistry

Department of Chemical and Pharmaceutical Engineering, Faculty of Chemistry and Pharmacy, Sofia University "St. Kliment Okhridski", James Bourchier Avenue 1, Sofia 1164, Bulgaria

1986 – 200 2

### Ph.D. Student, Research Associate, Assistant Professor

Sofia University "St. Kliment Ohridski", Faculty of Chemistry, Laboratory of Chemical Physics & Engineering (LCPE, former name of the Department of Chemical Engineering), James Bourchier Avenue 1, Sofia 1164, Bulgaria

## EDUCATION AND TRAINING

10.2000 – 06.2001

### Specialization (visiting scientist)

Laboratory for Ultrastructure Research, Department of Molecular Physiology, National Institute for Physiological Sciences (NIPS), Myodaiji-cho, Okazaki, Aichi 444-8585, Japan

03.1995 – 07.1996

### Specialization (visiting scientist)

Lehrstuhl für Strömungsmechanik, Technische Fakultät, Friedrich-Alexander Universität Erlangen-Nürnberg, Cauerstrasse 4, D-91058 Erlangen, Germany

- 10.1993 – 03.1994 **Specialization (visiting scientist)**  
Laboratoire de Physique Statistique, Ecole Normale Supérieure, 24 rue Lhomond, 75231 Paris Cedex 05, France
- 10.1986 – 09.1989 **Ph.D. in Physical Chemistry**  
Laboratory of Thermodynamics and Physico-Chemical Hydrodynamics (LTPH), Faculty of Chemistry, Sofia University "St. Kliment Ohridski", James Bourchier Avenue 1, Sofia 1164, Bulgaria
- 1979 - 1984 **M.Sc. in Chemistry, Specialization: "Inorganic and Analytical Chemistry"**  
Faculty of Chemistry, Sofia University " St. Kliment Ohridski ", James Bourchier Avenue 1, Sofia 1164, Bulgaria

## PERSONAL SKILLS

Mother tongue(s) Bulgarian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Russian	B2	B2	B1	B1	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

**Communication skills** Excellent communication skills, acquired during fulfillment of teaching duties as a faculty member of the Faculty of Chemistry and Pharmacy (University of Sofia), and also during visits abroad - specializations in foreign institutions, as well as during the work on international projects of scientific research

**Organisational / managerial skills** Coordinating the work of groups of associates (less than 5 persons) on projects; scientific supervision

**Job-related skills** Research interests:

- Mechanics and thermodynamics of liquid interfaces and membranes
- Statistical thermodynamics of colloid systems
- Interfacial and capillary phenomena
- Thermodynamics and kinetics of adsorption, surface equation of state
- Surface rheology (viscoelasticity, yield stress)
- Stability of liquid dispersions (emulsions, foams, role of surfactants, proteins, particles)
- Thin liquid films (interactions and hydrodynamics)
- Micro-heterogeneous systems
- Contact angles and wetting

h-index = 19 in SCOPUS until 30.12.2016 (self citations excluded).

## Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

Proficiency in work with software:  
DOS, Windows XP, Win 7, 8.1, 10  
MS Office – Word, Excel, PowerPoint, Access (database systems)  
Applied software for image and video processing (products of Adobe, Corel, Pinnacle)  
Specialized mathematical software: Wolfram Mathematica, Maple, Statistica, MatLab  
Programming languages for scientific computation: C, C++

Driving licence Categories: B, M

#### ADDITIONAL INFORMATION

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Membership in professional societies AMERICAN CHEMICAL SOCIETY (ACS),  
from 2001 and current

Participation in european scientific networks EU COST ACTION D43, COLLOID AND INTERFACE CHEMISTRY FOR NANOTECHNOLOGY,  
from 10. 11. 2006, until 09. 11. 2011, Member of the „Management Committee“;

Publications Appendix 1

Projects Appendix 2

Conferences Appendix 3

#### ANNEXES

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Appendix 1: List of publications for the entire period of creativity

Appendix 2: List of Participation in projects with companies and in projects on a competitive basis

Appendix 3: List of Conferences (from year 2000)

## Appendix 1

List of publications

**Theodor Dimitrov Gurkov**

Faculty of Chemistry and Pharmacy, Sofia University "St. Kliment Ohridski"

No	Authors	Title	Journal	Link
1.	Feng J., Roché M., Vigolo D., Arnaudov L.N., Stoyanov S.D., <b>Gurkov T.D.</b> , Tsutsumanova G.G., Stone H.A.	Nanoemulsions obtained via bubble-bursting at a compound interface	Nature Physics, (2014), 10, 8, 606-612	<a href="#">Link</a>
2.	<b>Gurkov T.D.</b> , Nenova B., Kostova E.K., Gaschler W.	Interfacial Rheology of Viscoelastic Surfactant-Polymer Layers	Colloid and interface chemistry for nanotechnology, (2014), 4, 351-367	<a href="#">Link</a> WOS:000357859100016
3.	Stanimirova R.D., <b>Gurkov T.D.</b> , Kralchevsky P.A., Balashev K.T., Stoyanov S.D., Pelan E.G.	Surface pressure and elasticity of hydrophobin HFBII layers on the air-water interface: Rheology versus structure detected by AFM imaging	Langmuir, (2013), 29, 20, 6053, 6067	<a href="#">Link</a>
4.	Alexandrov N.A., Marinova K.G., <b>Gurkov T.D.</b> , Danov K.D., Kralchevsky P.A., Stoyanov S.D., Blijdenstein T.B.J., Arnaudov L.N., Pelan E.G., Lips A.	Interfacial layers from the protein HFBII hydrophobin: Dynamic surface tension, dilatational elasticity and relaxation times	Journal of Colloid and Interface Science, (2012), 376, 1, 296, 306	<a href="#">Link</a>
5.	<b>Gurkov T.D.</b>	Adsorption kinetics under the influence of barriers at the subsurface layer	Colloid and Polymer Science, (2011), 289, 17-18, 1905-1915	<a href="#">Link</a>
6.	<b>Gurkov T.D.</b> , Angarska J.K., Tachev K.D., Gaschler W.	Statistics of rupture in relation to the stability of thin liquid films with different size	Colloids and Surfaces A: Physicochemical and Engineering Aspects, (2011), 382, 42372, 174-180	<a href="#">Link</a>
7.	Basheva E.S., <b>Gurkov T.D.</b> , Christov N.C., Campbell B.E.	Interactions in oil/water/oil films stabilized by $\beta$ -lactoglobulin; role of the surface charge	Colloids and Surfaces A: Physicochemical and Engineering Aspects, (2006), 282-283, 99-108	<a href="#">Link</a>
8.	Golemanov K., Tcholakova S., Denkov N.D., <b>Gurkov T.D.</b>	Selection of surfactants for stable paraffin-in-water dispersions, undergoing solid-liquid transition of the dispersed particles	Langmuir, (2006), 22, 8, 3560-3569	<a href="#">Link</a>
9.	<b>Gurkov T.D.</b> , Dimitrova D.T., Marinova K.G., Bilke-Crause C., Gerber C., Ivanov I.B.	Ionic surfactants on fluid interfaces: Determination of the adsorption; Role of the salt and the type of the hydrophobic phase	Colloids and Surfaces A: Physicochemical and Engineering Aspects, (2005), 261, 42372, 29-38	<a href="#">Link</a>
10.	Kralchevsky P.A., Danov K.D., Kolev V.L., <b>Gurkov T.D.</b> , Temelska M.I., Brenn G.	Detachment of oil drops from solid surfaces in surfactant solutions: Molecular mechanisms at a moving contact line	Industrial and Engineering Chemistry Research, (2005), 44, 5, 1309, 1321	<a href="#">Link</a>
11.	Dimitrova T.D., Leal-Calderon F., <b>Gurkov T.D.</b> , Campbell B.E.	Surface forces in model oil-in-water emulsions stabilized by proteins	Advances in Colloid and Interface Science, (2004), 108-109, 73-86	<a href="#">Link</a>
12.	<b>Gurkov T.D.</b> , Russev S.C., Danov K.D., Ivanov I.B., Campbell B.E.	Monolayers of globular proteins on the air/water interface: Applicability of the volmer equation of state	Langmuir, (2003), 19, 18, 7362-7369	<a href="#">Link</a>
13.	Kato M., Hokabe S., Itakura S., Minoshima S., Lyubchenko Y.L., <b>Gurkov T.D.</b> , Okawara H., Nagayama K., Shimizu N.	Interarm interaction of DNA cruciform forming at a short inverted repeat sequence	Biophysical Journal, (2003), 85, 1, 402-408	<a href="#">Link</a>

14.	Hadjiiski A., Tcholakova S., Ivanov I.B., <b>Gurkov T.D.</b> , Leonard E.F.	Gentle film trapping technique with application to drop entry measurements	Langmuir, (2002), 18, 1, 127-138	<a href="#">Link</a>
15.	Dimitrova T.D., Leal-Calderon F., <b>Gurkov T.D.</b> , Campbell B.E.	Disjoining pressure vs thickness isotherms of thin emulsion films stabilized by proteins	Langmuir, (2001), 17, 26, 8069-8077	<a href="#">Link</a>
16.	<b>Gurkov T.D.</b> , Petkov J.T., Campbell B.E., Borwankar R.P.	Dilatational and Shear Rheology of Protein Layers on Water/Air Interface	Food Colloids: Fundamentals of Formulation, (2001), 181-190	<a href="#">Link</a> WOS:000170232100015
17.	Hokabe S., <b>Gurkov T.D.</b> , Okawara H., Nagayama K., Minoshima S., Shimizu N., Kato M.	Chemical probing and electron microscopic analysis of alternative DNA structure formed in an inverted repeat sequence.	Nucleic acids research. Supplement (2001), (2002), 2, 217-218	<a href="#">Link</a>
18.	Ivanov I.B., Basheva E.S., <b>Gurkov T.D.</b> , Hadjiiski A., Arnaudov L.N., Vassileva N.D., Tcholakova S., Campbell B.E.	Stability of oil-in-water emulsions containing protein	Food Colloids: Fundamentals of Formulation, (2001), 73-90	<a href="#">Link</a> WOS:000170232100006
19.	Kato M., <b>Gurkov T.D.</b> , Elmesiry G.E., Shimizu N., Nagayama K.	Electron microscopic imaging of supercoiled DNA containing highly biased sequence.	Nucleic acids research. Supplement (2001), (2001), 1, 157-158	<a href="#">Link</a>
20.	Petkov J.T., <b>Gurkov T.D.</b> , Campbell B.E.	Measurement of the yield stress of gellike protein layers on liquid surfaces by means of an attached particle	Langmuir, (2001), 17, 15, 4556-4563	<a href="#">Link</a>
21.	Dimitrova T.D., <b>Gurkov T.D.</b> , Vassileva N.D., Campbell B.E., Borwankar R.P.	Kinetics of cream formation by the mechanism of consolidation in flocculating emulsions	Journal of Colloid and Interface Science, (2000), 230, 2, 254-267	<a href="#">Link</a>
22.	Petkov J.T., <b>Gurkov T.D.</b> , Campbell B.E., Borwankar R.P.	Dilatational and shear elasticity of gel-like protein layers on air/water interface	Langmuir, (2000), 16, 8, 3703-3711	<a href="#">Link</a>
23.	Russev S.C., Arguirov T.V., <b>Gurkov T.D.</b>	$\beta$ -Casein adsorption kinetics on air-water and oil-water interfaces studied by ellipsometry	Colloids and Surfaces B: Biointerfaces, (2000), 19, 1, 89-100	<a href="#">Link</a>
24.	Basheva E.S., <b>Gurkov T.D.</b> , Ivanov I.B., Bantchev G.B., Campbell B.E., Borwankar R.P.	Size dependence of the stability of emulsion drops pressed against a large interface	Langmuir, (1999), 15, 20, 6764-6769	<a href="#">Link</a>
25.	Danov K.D., <b>Gurkov T.D.</b> , Raszillier H., Durst F.	Stokes flow caused by the motion of a rigid sphere close to a viscous interface	Chemical Engineering Science, (1998), 53, 19, 3413-3434	<a href="#">Link</a>
26.	<b>Gurkov T.D.</b> , Danov K.D., Alleborn N., Raszillier H., Durst F.	Role of surface forces in the stability of evaporating thin liquid films that contain surfactant micelles	Journal of Colloid and Interface Science, (1998), 198, 2, 224-240	<a href="#">Link</a>
27.	<b>Gurkov T.D.</b> , Marinova K.G., Zdravkov A., Oleksiak C., Campbell B.E.	Gradual disintegration of protein lumps contained in thin emulsion films: Role of the surface diffusion	Progress in Colloid and Polymer Science, (1998), 110, 263-268	<a href="#">Link</a>
28.	Ivanov I.B., Hadjiiski A., Denkov N.D., <b>Gurkov T.D.</b> , Kralchevsky P.A., Koyasu S.	Energy of adhesion of human T cells to adsorption layers of monoclonal antibodies measured by a film trapping technique	Biophysical Journal, (1998), 75, 1, 545, 556	<a href="#">Link</a>
29.	Marinova K.G., <b>Gurkov T.D.</b> , Dimitrova T.D., Alargova R.G., Smith D.	Oscillatory structural interactions in thin emulsion films containing micelles of ionic surfactant	Progress in Colloid and Polymer Science, (1998), 110, 245-250	<a href="#">Link</a>
30.	Marinova K.G., <b>Gurkov T.D.</b> , Dimitrova T.D., Alargova R.G., Smith D.	Role of oscillatory structural forces for interactions in thin emulsion films containing micelles	Langmuir, (1998), 14, 8, 2011-2019	<a href="#">Link</a>
31.	Danov K.D., <b>Gurkov T.D.</b> , Dimitrova T.D., Ivanov I.B., Smith D.	Hydrodynamic theory for spontaneously growing dimple in emulsion films with surfactant mass transfer	Journal of Colloid and Interface Science, (1997), 188, 2, 313-324	<a href="#">Link</a>
32.	<b>Gurkov T.D.</b> , Kralchevsky P.A.	Mechanics and thermodynamics of interfaces, thin liquid films and membranes	Journal of Dispersion Science and Technology, (1997), 18, 42528, 609-623	<a href="#">Link</a>

33.	Marinova K.G., <b>Gurkov T.D.</b> , Velev O.D., Ivanov I.B., Campbell B.E., Borwankar R.P.	The role of additives for the behaviour of thin emulsion films stabilized by proteins	Colloids and Surfaces A: Physicochemical and Engineering Aspects, (1997), 123-124, 155-167	<a href="#">Link</a>
34.	<b>Gurkov T.D.</b> , Kralchevsky P.A., Nagayama K.	Formation of dimers in lipid monolayers	Colloid and Polymer Science, (1996), 274, 3, 227, 238	<a href="#">Link</a>
35.	Kralchevsky P.A., <b>Gurkov T.D.</b> , Nagayama K.	Electric component of the interfacial bending moment and the curvature elastic moduli	Journal of Colloid and Interface Science, (1996), 180, 2, 619, 622	<a href="#">Link</a>
36.	Velev O.D., <b>Gurkov T.D.</b> , Ivanov I.B., Borwankar R.P.	Abnormal thickness and stability of nonequilibrium liquid films	Physical Review Letters, (1995), 75, 2, 264-267	<a href="#">Link</a>
37.	Danov K.D., Ivanov I.B., <b>Gurkov T.D.</b> , Borwankar R.P.	Kinetic Model for the Simultaneous Processes of Flocculation and Coalescence in Emulsion Systems	Journal of Colloid And Interface Science, (1994), 167, 1, 8-17	<a href="#">Link</a>
38.	<b>Gurkov T.D.</b> , Horozov T.S., Ivanov I.B., Borwankar R.P.	Composition of mixed adsorption layers of non-ionic surfactants an oil/water interfaces	Colloids and Surfaces A: Physicochemical and Engineering Aspects, (1994), 87, 2, 81-92	<a href="#">Link</a>
39.	Velev O.D., <b>Gurkov T.D.</b> , Chakarova Sv.K., Dimitrova B.I., Ivanov I.B., Borwankar R.P.	Experimental investigations on model emulsion systems stabilized with non-ionic surfactant blends	Colloids and Surfaces A: Physicochemical and Engineering Aspects, (1994), 83, 1, 43-55	<a href="#">Link</a>
40.	<b>Gurkov T.D.</b> , Kralchevsky P.A., Ivanov I.B.	Molecular approach to the curvature elasticity of lipid bilayers and biological membranes	Progress in Colloid & Polymer Science, (1993), 93, 260, 261	<a href="#">Link</a>
41.	Velev O.D., <b>Gurkov T.D.</b> , Borwankar R.P.	Spontaneous Cyclic Dimpling in Emulsion Films Due to Surfactant Mass Transfer between the Phases	Journal of Colloid And Interface Science, (1993), 159, 2, 497-501	<a href="#">Link</a>
42.	<b>Gurkov T.D.</b> , Kralchevsky P.A., Ivanov I.B.	The van der Waals component of interfacial bending moment 2. Model development and numerical results	Colloids and Surfaces, (1991), 56, C, 119-148	<a href="#">Link</a>
43.	Kralchevsky P.A., <b>Gurkov T.D.</b>	The van der Waals component of the interfacial bending moment 1. Contribution of the pressure tensor tails	Colloids and Surfaces, (1991), 56, C, 101-118	<a href="#">Link</a>
44.	Kralchevsky P.A., <b>Gurkov T.D.</b> , Ivanov I.B.	The interfacial bending moment: Thermodynamics and contributions of the electrostatic interactions	Colloids and Surfaces, (1991), 56, C, 149-176	<a href="#">Link</a>
45.	<b>Gurkov T.D.</b> , Kralchevsky P.A.	Surface tension and surface energy of curved interfaces and membranes	Colloids and Surfaces, (1990), 47, C, 45-68	<a href="#">Link</a>

## Appendix 2

List of Participation in projects with companies  
**Theodor Dimitrov Gurkov**  
 Faculty of Chemistry and Pharmacy, Sofia University "St. Kliment Ohridski"

№	Supervisor	Company/ Country	Project	Amount	Duration
1.	Peter Kralchevsky	S.C.Johnson & Son, Inc, USA	" Ionic liquids as carriers of antimicrobial substances "	not disclosed	05.12.2016 30.06.2017
2.	Peter Kralchevsky	Unilever, The Netherlands	Complex rheology of suspensions enhanced by capillary bridging.	not disclosed	01.08.2013 31.07.2016
3.	Peter Kralchevsky	Unilever, UK	Behaviour of hydrophobin on oil-water interfaces and its role for the stabilization of thin liquid films and emulsions.		09.2012 03.09.2013
4.	Peter Kralchevsky	Unilever Vlaardingen, The Netherlands	Bubble longevity to build understanding in long term control of bubble stability.	not disclosed	01.08.2011-31.07.2012
5.	Peter Kralchevsky	Unilever Vlaardingen, The Netherlands	Understanding the long term control of bubble stability using hydrophobins.	not disclosed	01.08.2011-31.07.2013
6.	Slavka Tcholakova	Unilever, UK	To develop a comprehensive understanding of surfactants adsorption to surface.	not disclosed	01.08.2011-31.07.2013
7.	Nikolai Denkov	Unilever, UK	Physicochemical expertise to manipulate enzyme in complex media.	not disclosed	01.07.2011-30.06.2013
8.	Nikolai Denkov	Unilever, The Netherlands	New mechanisms and molecules for improving bubble longevity.	not disclosed	01.08.2009-01.08.2011
9.	Peter Kralchevsky	Unilever, The Netherlands	New mechanisms and molecules for improving bubble longevity.	not disclosed	01.08.2009-01.08.2011
10.	Peter Kralchevsky	Unilever, The Netherlands	Novel method for stabilization of foams and emulsions using new proteins in particle.	not disclosed	14.07.2008-15.07.2009
11.	Nikolai Denkov	Unilever, The Netherlands	Novel approaches for understanding and controlling lipase activity for optimal fat digestion and bioavailability of actives.	not disclosed	14.07.2008-15.7.2009
12.	Nikolai Denkov	Unilever, UK	Equipment contract	not disclosed	1.01.2005-31.12.2005
13.	Peter Kralchevsky	Rhodia Silicones S.A.S	Emulsification and emulsion's stability of charged systems	not disclosed	01.01.2003-31.12.2003
<b>List of Participation in Projects on a competitive basis</b>					
1.	Peter Kralchevsky	FNI	Electrocapillary interactions and nanoparticle assembly on liquid surfaces in view of their application for fabrication of new nanostructured materials		29.07.2009-29.07.2012
2.	Peter Kralchevsky	IFDHT Graz University of Technology, Austria	Emulsions with nanoparticles for new materials		20.10.2005
3.	Nikolai Denkov	COST	Dissemination of scientific results (COST action MP1106)		11.2012- 31.12.2015
4.		ESF COST Action D43	"Colloid and Interface Chemistry for Nanotechnology"		2008–2011

### Appendix 3

#### List of conferences

**Theodor Dimitrov Gurkov**

Faculty of Chemistry and Pharmacy, Sofia University “St. Kliment Ohridski”

No	Authors	Title	Conference or symposium	Data and place	Link
1.	<b>Gurkov T.D.</b> , Dimitrova D.T.	Adsorption dynamics and equation of state of surfactant layers, quantified from the initial stages in the interfacial tension change - Lecture	Dotchi Exerowa Symposium, BAS, in the frames of COST Action MP1106: Smart and green interfaces from single bubbles and drops to industrial, environmental and biomedical applications	2015, October 29-31, Sofia, Best Western Expo Hotel, Bulgaria	<a href="#">Link</a>
2.	Tzocheva S., Radulova G.M., <b>Gurkov T.D.</b> , Krăsteva, D., Kralchevsky P.A., Danov K.D., Stoyanov, S., Pelan, E.	Rheology of solid/ liquid dispersions, affected by an Inner fluid through a capillary mechanism - Poster	Dotchi Exerowa Symposium, BAS, in the frames of COST Action MP1106: Smart and green interfaces from single bubbles and drops to industrial, environmental and biomedical applications	2015, October 29-31, Sofia, Best Western Expo Hotel, Bulgaria	<a href="#">Link</a>
3.	<b>Gurkov T.D.</b> , Dimitrova D.T.	Surfactant adsorption and the equation of state, obtained from kinetic interfacial tension data - Lecture	28th Conference of the European Colloid and Interface Society (ECIS)	2014, 07/09/ - 12/09, Limassol, Cyprus	See attached file
4.	Stanimirova R.D., <b>Gurkov T.D.</b> , Kralchevsky P.A., Balashev, K.T., Stoyanov S.D., Pelan, E.G.	Surface pressure and elasticity of hydrophobin layers on the air–water interface: rheology vs structure detected by AFM - Lecture	20th SIS – Surfactants in Solution Symposium	2014, 22–27 June, Coimbra, Portugal	<a href="#">Link</a>
5.	Stanimirova R.D., Russev, S., <b>Gurkov T.D.</b> , Tsutsumanova, G., Stoyanov, S., Arnaudov, L.	Spreading and layer properties in the case of pseudo-partial wetting of oil on surfactant solution - Poster	28th Conference of the European Colloid and Interface Society (ECIS)	2014, 07/09-12/09, Limassol, Cyprus	See attached file
6.	Alexandrov N.A., Marinova K.G., <b>Gurkov T.D.</b> , Danov K.D., Kralchevsky P.A., Stoyanov S.D., Blijdenstein T.B.J., Arnaudov L.N., Pelan E.G., Lips A.	Interfacial Layers from the Protein HFBII Hydrophobin: Dynamic Surface Tension, Dilatational Elasticity and Relaxation Times - Poster	27th ECIS Conference & COST CM1101 Annual Workshop	2013, 01/09-06/09, Sofia, Bulgaria	<a href="#">Link</a>
7.	Alexandrov N.A., Marinova K.G., <b>Gurkov T.D.</b> , Danov K.D., Kralchevsky P.A., Stoyanov S.D., Blijdenstein T.B.J., Arnaudov L.N., Pelan E.G.,	Interfacial layers from the protein HFBII hydrophobin: Dynamic surface tension, dilatational elasticity and relaxation Times -	27th ECIS Conference & COST CM1101 Annual Workshop	2013, 01/09-06/09, Sofia, Bulgaria	<a href="#">Link</a>



	Lips A.	Poster			
8.	Dimitrova D.T., <b>Gurkov T.D.</b>	Quantitative Evaluation of Surfactant Adsorption from Kinetic Interfacial Tension Data - Poster	27th ECIS Conference & COST CM1101 Annual Workshop	2013, 01/09-06/09, Sofia, Bulgaria	<a href="#">Link</a>
9.	Golemanov K.N., <b>Gurkov T.D.</b> , Tcholakova S.S., Denkov N.D.	Role of Surfactants for Optimization of the Physico-Chemical Properties of Phase Change Materials for Energy Storage - Lecture	Workshop "Materials for Clean Energy and Optics", FP7-REGPOT-2011-1 (Beyond Everest)	2013, April 4-7, RIU Pravets Resort, Bulgaria	<a href="#">Link</a>
10.	<b>Gurkov T.D.</b> , Stanimirova R.D., Kralchevsky P.A., Balashev K.T., Stoyanov S.D., Pelan E.G.	Surface Pressure and Elasticity of Hydrophobin HFBII Layers on the Air-Water Interface: Rheology vs. Structure Detected by AFM Imaging - Lecture	27th ECIS Conference & COST CM1101 Annual Workshop	2013, 01/09-06/09, Sofia, Bulgaria	<a href="#">Link</a>
11.	<b>Gurkov T.D.</b> , Stanimirova R.D., Nenova B.	Rheology of interfacial layers at different density and degree of entanglement - Lecture	Workshop "Smart and Green Interfaces 2013 (Prague)", COST Action MP1106	2013, 21-22.03, Prague, Czech Republic	See attached file
12.	Kostova E.K., <b>Gurkov T.D.</b> , Gaschler W.	Rheology of particle-polymer gels subjected to compression by centrifugation - Poster	Workshop "Smart and Green Interfaces 2013 (Prague)", COST Action MP1106	2013, 21-22.03, Prague, Czech Republic	See attached file
13.	Alexandrov N.A., Marinova K.G., <b>Gurkov T.D.</b> , Danov K.D., Kralchevsky P.A., Stoyanov S., Blijdenstein T., Arnaudov L., Pelan E., Lips A.	Interfacial Layers from the Protein HFBII Hydrophobin: Dynamic Surface Tension, Dilatational Elasticity and Relaxation Times - Lecture	EUFOAM 2012 Conference	2012, Lisbon, Portugal, 8 – 11 July	See attached file
14.	Alexandrov N.A., Marinova K.G., <b>Gurkov T.D.</b> , Danov K.D., Kralchevsky P.A., Stoyanov S.D., Blijdenstein T., Arnaudov L., Pelan E., Lips A.	Interfacial Layers from the Protein HFBII Hydrophobin: Dynamic Surface Tension, Dilatational Elasticity and Relaxation Times - Lecture	5th International Workshop Bubble and Drop Interfaces B&D 2012	2012, 20 - 24.05., Kraków, Poland	<a href="#">Link</a>
15.	<b>Gurkov T.D.</b> , Kostova E.K., Holtze C.	Kinetics of Bubble Removal from Turbulently Mixed Dispersions - Poster II.297(60)	25-th Conference of the European Colloid and Interface Society, ECIS 2011	2011, September 4-9, TU Berlin, Germany	See attached file
16.	<b>Gurkov T.D.</b>	Interfacial Rheology - Lecture	COST P21 Student Training School "Physics of Droplets: Basic and Advanced Topics"	2010, 12-16 July, Borovets, Bulgaria	<a href="#">Link</a>
17.	<b>Gurkov T.D.</b> , Angarska J.K., Tachev K.D., Gaschler W.	Statistics of Rupture in Relation to the Stability of Thin Liquid Films with Different Size - Lecture	EUFOAM Conference & COST D43 Thematic Symposium	2010, 12-16 July, Borovets, Bulgaria	<a href="#">Link</a>
18.	<b>Gurkov T.D.</b> , Nenova B., Kostova E.K., Gaschler W.	Interfacial rheology of viscoelastic gel-like layers - Lecture	24-th Conference of the European Colloid and Interface Society, ECIS 2010	2010, 6 September, Prague, Czech Republic	See attached file
19.	Kostova E.K., <b>Gurkov T.D.</b> , Gaschler W.	Thickening of Polymer-Stabilized Aqueous Dispersions under Compressional Stress - Poster	EUFOAM Conference & COST D43 Thematic Symposium	2010, 12-16 July, Borovets, Bulgaria	<a href="#">Link</a>
20.	Angarska J.K., <b>Gurkov T.D.</b> , Gaschler W.	Thin Liquid Film Stability, Characterized by Drainage Rate and Statistics of Rupture at Different Film Size - Lecture	Workshop of COST Action D43 "Functionalized Materials and Interfaces"	2009, March 17-19, Marcoule, France	<a href="#">Link</a>
21.	<b>Gurkov T.D.</b> , Nenova B., Kostova E.K., Marinova K.G., Gaschler W.	Реологични свойства на повърхностни слоеве с агрегация и омреждане на молекулите - Lecture	Юбилейна научна сесия на Химическия факултет на СУ "Св.Кл.Охридски", посветена на 120	2009, 27. 11., ХФ на СУ, София	<a href="#">Link</a>

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22.	<b>Gurkov T.D.</b> , Kostova E.K., Nenova B.D., Gaschler W.	Surface Rheology of Structured/ Entangled Layers - Lecture	Workshop of EC COST Action D43 "Functionalized Materials and Interfaces"	2008, April 2–4, Technische Universität, Berlin, Germany	<a href="#">Link</a>
23.	Basheva E.S., <b>Gurkov T.D.</b> , Krumova K., Campbell B.	Stability and Behavior of Thin Oil/Water/Oil Films with beta-Lactoglobulin	4th World Congress on Emulsions	2006, 3-6 October, Lyon, France	<a href="#">Link</a>
24.	Golemanov K.N., Tcholakova S., Denkov N.D., <b>Gurkov T.D.</b>	Selection of surfactants for stable paraffin-in-water dispersions, undergoing solid-liquid transition of dispersed particles - Poster	6th European Conference of Foams, Emulsions and Applications,	2006, 2-6 July, Potsdam, Germany	See attached file
25.	<b>Gurkov T.D.</b> , Ivanov I.B.	Layers of Non-ionic Surfactants on Fluid Interfaces; Adsorption and Interactions in the Frames of a Statistical Model	4th World Congress on Emulsions	2006, 3-6 October, Lyon, France	<a href="#">Link</a>
26.	Kralchevsky P.A., Danov K.D., Kolev, V.L., <b>Gurkov T.D.</b> , Brenn, G.	Detachment of Oil Drops from Solid Surfaces in Surfactant Solutions: Molecular Mechanisms at a Moving Contact Line o Poster	Eleventh International Conference on Organized Molecular Films (LB11)	2005, June 26-30, Sapporo, Hokkaido, Japan	<a href="#">Link</a>
27.	Kralchevsky P.A., Danov K.D., Kolev, V.L., <b>Gurkov T.D.</b> , Temelska, M.I., Brenn, G., Denkov N.D.D.	Detachment of Oil Drops from Solid Surfaces in Surfactant Solutions: Molecular Mechanisms at a Moving Contact Line – Invited Lecture	Department of Mechanics and Physics of Fluids (DMPF), Institute of Fundamental Technological Research, Polish Academy of Sciences	2004, October 28-30, Warsaw, Poland	<a href="#">Link</a>
28.	Todorova D.T., Alexandrov N.A., Marinova K.G., <b>Gurkov T.D.</b> , Danov K.D., Ivanov, I.B.	Rheology, Dynamic and Equilibrium Adsorption of Ionic Surfactant at Liquid Interfaces – Poster	Conference "EUFOAM" 2004	2004, July 5-8, Marne la Vallée (Paris), France	See attached file
29.	Todorova D.T., Marinova K.G., <b>Gurkov T.D.</b> , C.Bilke-Crause, C., Gerber, C., Ivanov, I.B.	Dynamic and equilibrium adsorption of ionic surfactant at liquid interfaces.Role of the hydrophobic phase and the salt concentration" – Lecture	Bubble and Drop Interfaces	2004, 25-28 April, Genova, Italy	See attached file
30.	<b>Gurkov T.D.</b> , Russev S.C., Danov K.D., Ivanov I.B., Petkov J.T., Campbell B.E.	Rheology of Adsorbed Protein Layers on Fluid Interfaces - Poster	9-th Food Colloids Meeting "Food Colloids, Biopolymers and Materials"	2002, April 14-17, Wageningen, the Netherlands	<a href="#">Link</a>
31.	<b>Gurkov T.D.</b> , Nagayama K.	Electron Microscopic Observation of Selectively Labeled DNA - Toward EM DNA Sequencing - Poster	The First Annual Meeting of the Protein Science Society of Japan	2001, June 1-3, Osaka University, Suita Campus, Osaka, Japan	<a href="#">Link</a>
32.	<b>Gurkov T.D.</b> , Petkov J.T., Campbell B.E.	Dilatational and Shear Rheology of Protein Layers on Water/Air Interface - Poster	Euro Conference on Interfaces and Thin Films of Polymers and Colloidal Systems	2001, September 8-13, Acquafredda di Maratea, Italy	<a href="#">Link</a>
33.	Petkov J.T., <b>Gurkov T.D.</b> , Campbell, B.	Measurement of the Yield Stress of Gellike Protein Layers on Liquid Surfaces by Means of an Attached Particle - Poster	Euro Conference on Interfaces and Thin Films of Polymers and Colloidal Systems	2001, September 8-13, Acquafredda di Maratea, Italy	<a href="#">Link</a>
34.	Dimitrova T.D., <b>Gurkov T.D.</b> , Vassileva N.D., Campbell B., Borwankar R.P.	Kinetics of Cream Formation by the Mechanism of Consolidation in Flocculating Emulsions - Poster	8-th Food Colloids Meeting "Food Colloids 2000- Fundamentals of Formulation"	2000, April 2-5, Potsdam, Germany	<a href="#">Link</a>
35.	<b>Gurkov T.D.</b> , Basheva E.S., Campbell B.E., Borwankar R.P.	Size Dependence of the Stability of Emulsion Drops Pressed Against a Large Liquid Interface -	The 10-th International Conference on Colloid and Interface Science	2000, July 23-28, Bristol, UK	<a href="#">Link</a>

		Poster	(IACIS-2000)		
36.	<b>Gurkov T.D.</b> , Dimitrova T.D., Vassileva N.D., Campbell B.E., Borwankar R.P.	Kinetics of Cream Formation by the Mechanism of Consolidation in Flocculating Emulsions Stabilised by Proteins - Poster	The 10-th International Conference on Colloid and Interface Science (IACIS-2000)	2000, July 23-28, Bristol, UK	<a href="#">Link</a>
37.	<b>Gurkov T.D.</b> , Petkov J.T., Campbell B.E., Borwankar R.P.	Interfacial Rheology of Adsorbed Layers of Proteins and Protein-Surfactant Mixtures on Liquid Boundaries - Lecture	The 10-th International Conference on Colloid and Interface Science (IACIS-2000)	2000, July 23-28, Bristol, UK	<a href="#">Link</a>
38.	<b>Gurkov T.D.</b> , Petkov J.T., Campbell B.E., Borwankar R.P.	Dilatational and Shear Rheology of Protein Layers on Water/Air Interface - Lecture	8-th Food Colloids Meeting "Food Colloids 2000- Fundamentals of Formulation"	2000, April 2-5, Potsdam, Germany	<a href="#">Link</a>
39.	Petkov J.T., <b>Gurkov T.D.</b> , Ivanov, I.B., Campbell, B., Borwankar, R.P.	A Simple New Method for Measuring the Yield Stress of Gel-like Protein Layers on Liquid Surfaces - Poster	8-th Food Colloids Meeting "Food Colloids 2000- Fundamentals of Formulation"	2000, April 2-5, Potsdam, Germany	<a href="#">Link</a>
40.	Russev, S.C., <b>Gurkov T.D.</b> , Nikolov, V.K., Campbell, B., Borwankar, R.P.	Ellipsometric Study of b-Lactoglobulin Adsorption and Compression at the Interface Air/Solution - Poster	8-th Food Colloids Meeting "Food Colloids 2000- Fundamentals of Formulation"	2000, April 2-5, Potsdam, Germany	<a href="#">Link</a>