EUROPEAN CURRICULUM VITAE FORMAT

PERSONAL INFORMATION

Name	KRALCHEVSKY, PETER ATANASSOV
Address	41B CHERNI VRAH BLVD., SOFIA 1407, BULGARIA
Telephone	+359 2 8161262
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E-mail	PK@LCPE.UNI-SOFIA.BG
Nationality	Bulgarian
Date of birth	23 OCTOBER 1956, GABROVO, BULGARIA

WORK EXPERIENCE

• Dates (from – to)	APRIL – DECEMBER 1981
• Name and address of employer	Sofia University "St. Kliment Ohridski", Faculty of Chemistry, Department of Physical Chemistry
• Type of business or sector	Research in Physical and Colloid Chemistry
• Occupation or position held	PHYSICIST
• Main activities and responsibilities	Theoretical and experimental investigations on thin liquid films
• Dates (from – to)	1982 – 1984
• Name and address of employer	Sofia University "St. Kliment Ohridski", Faculty of Chemistry, Dept. of Physical Chemistry and Laboratory of Thermodynamics and Physicochemical Hydrodynamics
• Type of business or sector	Research in Physical Chemistry of Colloids and Interfaces
• Occupation or position held	PHD STUDENT
• Main activities and responsibilities	Investigations on capillary phenomena, thin liquid films, contact angles and line tension
• Dates (from – to)	1985 – 1991
• Name and address of employer	Sofia University "St. Kliment Ohridski", Faculty of Chemistry, Laboratory of Thermodynamics and Physicochemical Hydrodynamics
• Type of business or sector	Research in Physical and Colloid Chemistry and Teaching
• Occupation or position held	RESEARCH ASSOCIATE III–I DEGREE
• Main activities and responsibilities	Fundamental and Applied Research, and Teaching
• Dates (from – to)	1991 – 2002
• Name and address of employer	Sofia University "St. Kliment Ohridski", Faculty of Chemistry, Laboratory of Thermodynamics and Physicochemical Hydrodynamics and Laboratory of Chemical Physics and Engineering
• Type of business or sector	Research in Physical and Colloid Chemistry and Teaching
• Occupation or position held	ASSOCIATE PROFESSOR
• Main activities and responsibilities	Fundamental and Applied Research, and Teaching
• Dates (from – to)	2002 – until now

• Name and address of employer	Sofia University "St. Kliment Ohridski", Faculty of Chemistry, Laboratory of Thermodynamics and Physicochemical Hydrodynamics
• Type of business or sector	Research in Physical and Colloid Chemistry and Teaching
• Occupation or position held	FULL PROFESSOR
• Main activities and responsibilities	Fundamental and Applied Research, and Teaching
• Dates (from – to)	2015 – 2019
• Occupation or position held	DEAN OF THE FACULTY OF CHEMISTRY AND PHARMACY, SOFIA UNIVERSITY
• Dates (from – to)	2017 – PRESENT
• Occupation or position held	HEAD OF THE LABORATORY OF COMPLEX FLUIDS, SOFIA UNIVERSITY

TEACHING EXPERIENCE

• Dates (from – to)	1984 – until now
• University	Sofia University "St. Kliment Ohridski"
• Faculty	Faculty of Chemistry
• Courses Taught	Mathematical Methods in Chemistry; Transport Phenomena; Chemical Statistical Thermodynamics; Mathematics for the degree courses "Ecological Chemistry" and Pharmacy; Nanocolloids; Colloidal Crystals and Nanomaterials; Disperse Systems and Separation Processes; Interfacial Phenomena and Disperse Systems (Nagayama Project, Tsukuba, Japan, 1992 and in Physical Faculty, Sofia Univ.); Physical Chemistry (Shumen Univ.). He was the supervisor of 16 PhD students and 39 diploma works of students.

SCIENTIFIC PUBLICATIONS

215 publications, including one book (Elsevier), 14 chapters in books and two patents; see attached list; 262 presentations at scientific conferences, including 8 plenary, 50 invited and keynote lectures; 96 oral presentations and 108 posters; 44 invited lectures in foreign universities and research institutes; > 10,000 citations in the scientific literature; h-index = 46 (Web of Science, 14 March. 2020).

EDUCATION AND TRAINING

• Dates (from – to)	1971 – 1974
• Name and type of organization providing education and training	Aprilov National High School (1971/72) and Mathematical High School (1972/74) in Gabrovo, Bulgaria
• Principal subjects/occupational skills covered	Mathematics, Numerical Methods, Physics, Chemistry, Biology, Bulgarian and English
• Title of qualification awarded	Computer Programmer
• Level in national classification (if appropriate)	
• Dates (from – to)	1976 – 1981
• Name and type of organization providing education and training	Sofia University "St. Kliment Ohridski", Faculty of Physics, Student in Physics
• Principal subjects/occupational skills covered	Mathematics; Mathematical Methods of Physics; Theoretical Mechanics; Atomic Physics; Electrodynamics; Thermodynamics and Statistical Physics; Quantum Mechanics
• Title of qualification awarded	M.Sc. in Physics with Specialization in Atomic Physics
• Level in national classification (if appropriate)	
• Dates (from – to)	1982 – 1984
• Name and type of organization providing education and training	Sofia University "St. Kliment Ohridski", Faculty of Chemistry, PhD Student
• Principal subjects/occupational skills covered	Research in Physical Chemistry of Colloids and Interfaces

• Title of qualification awarded	PhD in Physics after defence of a Thesis entitled: "Influence of Curvature on the Thermodynamic Properties of Thin Liquid Films"
PERSONAL SKILLS AND COMPETENCES *Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas*.	
MOTHER TONGUE	BULGARIAN
OTHER LANGUAGES	
	ENGLISH
• Reading skills	Excellent
• Writing skills	Excellent
• Verbal skills	Very good
	RUSSIAN
• Reading skills	Excellent
• Writing skills	Very good
• Verbal skills	Good
SOCIAL SKILLS AND COMPETENCES *Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.*	SPECIALIZATIONS ABROAD: AUGUST–NOVEMBER 1987: GUEST-RESEARCHER, DEPARTMENT OF CHEMICAL ENGINEERING, ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, USA (HOST: PROF. D.T. WASAN); DECEMBER 1991 – DECEMBER 1992: GUEST-PROFESSOR IN THE NAGAYAMA PROTEIN ARRAY PROJECT, PROGRAM "ERATO" OF THE JAPAN SCIENCE AND TECHNOLOGY AGENCY (JST); TSUKUBA; SEPTEMBER 1998 – MAY 1999: GUEST-PROFESSOR IN THE LABORATORY OF ULTRASTRUCTURE RESEARCH, NATIONAL INSTITUTE OF PHYSIOLOGY, OKAZAKI, JAPAN.
ORGANISATIONAL SKILLS AND COMPETENCES *Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.*	APRIL 1993 – DECEMBER 1999: HEAD OF THE LABORATORY OF THERMODYNAMICS AND PHYSICOCHEMICAL HYDRODYNAMICS, FACULTY OF CHEMISTRY, SOFIA UNIVERSITY; JANUARY 2000 – JANUARY 2008: HEAD OF THE LABORATORY OF CHEMICAL PHYSICS ENGINEERING, FACULTY OF CHEMISTRY, SOFIA UNIVERSITY; SEPTEMBER 2007 – MAY 2011: CHAIRMAN OF THE SPECIALIZED SCIENTIFIC COUNCIL ON THEORETICAL AND COMPUTATIONAL CHEMISTRY, HIGHER TESTIMONY COMMISSION (VAK), BULGARIA; NOVEMBER 2008 – NOVEMBER 2011: CHAIRMAN OF THE EUROPEAN COST ACTION D43 "COLLOID AND INTERFACE CHEMISTRY FOR NANOTECHNOLOGY" WITH THE PARTICIPATION OF 29 COUNTRIES. JANUARY 2012 – JANUARY 2016: VICE CHAIR THE EUROPEAN COST ACTION CM1101 "Colloidal Aspects of Nanoscience for Innovative Processes and Materials" with the participation of 31 countries. JUNE 2015 – JUNE 2019: DEAN OF THE FACULTY OF CHEMISTRY AND PHARMACY, SOFIA UNIVERSITY; NOVEMBER 2017 – PRESENT: HEAD OF THE LABORATORY OF COMPLEX FLUIDS, SOFIA UNIVERSITY;
OTHER SKILLS AND COMPETENCES *Competences not mentioned above.*	RECIPIENT OF THE SCIENTIFIC DEGREE "DOCTOR HABILIS IN PHYSICAL SCIENCES" AWARDED BY THE HIGHER TESTIMONY COMMISSION OF BULGARIA (VAK) AFTER THE DEFENCE OF A THESIS ENTITLED: "CURVED INTERFACES AND CAPILLARY FORCES BETWEEN PARTICLES", 2001.
DRIVING LICENCE(S)	YES

ADDITIONAL INFORMATION:
Awards and Honours

1990: Recipient of the *Prof. A. Zlatarov Prize* of the Bulgarian Academy of Sciences and Sofia University for achievements in chemistry.

2004 – 2012: *CORRESPONDING MEMBER OF THE BULGARIAN ACADEMY OF SCIENCES (BAS)*

2006: *"St. Kliment Ohridski" University of Sofia Blue Ribbon Med*al for significant achievements in science.

2008: Annual award "Best Professor" of the Bulgarian Ministry of Education and Science.

2010 – present: Secretary of the European Colloid & Interface Society (ECIS).

2012 – present*: FELLOW OF THE BULGARIAN ACADEMY OF SCIENCES (BAS)*

2015 – present*: Member of the Council of the International Association of Colloid and Interface Scientists* (IACIS)

2016: THE HIGHEST NATIONAL AWARD FOR SCIENCE, *"PYTHAGORAS",* of the Bulgarian Ministry of Education and Science.

ANNEX 1

List of the Scientific Publications by Peter A. Kralchevsky

1. P.A. Kralchevsky and A.V. Nikolov. *"Asymptotic Equations in a Model of Hadron Interaction"*. *Bulg. J. Phys*., 9 (1982) 109-118.

2. P.A. Kralchevsky and A.V. Nikolov. *"Model Hadron Asymptotic Behaviour"*. *Bulg. J. Phys*., 10 (1983) 3-12.

3. P.A. Kralchevsky and I.B. Ivanov. *"On the Mechanical Equilibrium between a Film of Finite Thickness and the External Meniscus"*. *Chem. Phys. Lett.,* 121 (1985) 111-115.

4. P.A. Kralchevsky and I.B. Ivanov. *"The Transition Region between a Thin Film and the Capillary Meniscus". Chem. Phys. Lett.*, 121 (1985) 116-121.

5. P.A. Kralchevsky and I.B. Ivanov. *"Mechanical Properties of Curved Thin Liquid Films"*. *Ann. Univ. Sofia, Fac. Chem.*, 78 (1984) 239- 268 (in Bulgarian).

6. P.A. Kralchevsky, I.B. Ivanov and A.D. Nikolov. *"Curvature Effects on the Attachment of a Particle to an Interface"*. VI International Tagung uber Grenzflachenactive Stoffe. Abhanlungen Akad. Wissensch. DDR, 1985, Nr. 1N, pp 87-94. Akademie Verlag, Berlin.

7. I.B. Ivanov, P.A. Kralchevsky, A.D. Nikolov. *"Film and Line Tension Effects on the Attachment of Particles to an Interface: I. Conditions for Mechanical Equilibrium of Fluid and Solid Particles at a Fluid Interface"*. *J. Colloid Interface Sci.*, 112 (1986) 97-107.

8. P.A. Kralchevsky, I.B. Ivanov and A.D. Nikolov. *"Film and Line Tension Effects on the Attachment of Particles to an Interface: II. Shapes of the Bubble (Drop) and the External Meniscus"*. *J. Colloid Interface Sci.*, 112 (1986) 108-120.

9. A.D. Nikolov, P.A. Kralchevsky and I.B. Ivanov. *"Film and Line Tension Effects on the Attachment of Particles to an Interface: III. Differential Interferometric Method for Determination the Shapes of Fluid Surfaces"*. *J. Colloid Interface Sci.,* 122 (1986) 122-131.

10. P.A. Kralchevsky, A.D. Nikolov and I.B. Ivanov. *"Film and Line Tension Effects on the Attachment of Particles to an Interface: IV. Experimental Studies with Bubbles in Solutions of Dodecyl Sodium Sulfate"*. *J. Colloid Interface Sci*., 112 (1986) 132-143.

11. A.D. Nikolov, A.S. Dimitrov and P.A. Kralchevsky. *"Accuracy of the Differential Interferometric Measurements of Curvature - Experimental Study with Liquid Drops"*. *Optica Acta (J. Modern Optics)* 33 (1986) 1359-1368.

12. A.D. Nikolov, P.A. Kralchevsky, I.B. Ivanov and A.S. Dimitrov. *"Differential Interferometric Investigation of Curved Liquid Films"*. *AIChE Symposium Series* 252, vol. 82 (1986) 82-90.

13. P.A. Kralchevsky and I.B. Ivanov. *"Hydrostatics of Spherical Thin Films"*. - In: Surfactants in Solution, vol.6, (K.L. Mittal and P. Bothorel, Eds.), Plenum Press, New York, 1987, pp. 1549-1556.

14. A.D. Nikolov, P.A. Kralchevsky and I.B. Ivanov. *"A New Method for Measuring Film and Line Tensions"*.- In: Surfactants in Solution, Vol.6 (K.L. Mittal and P. Bothorel, Eds.), Plenum Press, New York, 1987, pp. 1537-1547.

15. I.B. Ivanov and P.A. Kralchevsky. *"Mechanics and Thermodynamics of Curved Thin Liquid Films"*. - In: Thin Liquid Films (I.B. Ivanov, Ed.), Marcel Dekker, New York, 1988, pp. 49-129.

16. A.D. Nikolov, D.T. Wasan, P.A. Kralchevsky and I.B. Ivanov. *"Ordered Structures in Thinning Micellar and Latex Foam Films"*. In: Ordering and Organisation in Ionic Solutions (N. Ise and I. Sogami, Eds.), World Scientific, Singapore, 1988, pp. 302-314.

17. C.D. Dushkin, K. Nagayama, T. Miwa and P.A. Kralchevsky, *"Colored Multilayers from Transparent Submicrometer Spheres"*, *Langmuir* 9 (1993) 3695 - 3701.

18. P. A. Kralchevsky. *"Micromechanical Description of Curved Interfaces, Thin Films and Membranes: I. Quasistatics"*. *J. Colloid Interface Sci*. 137, (1990) 217-233

19. P.A. Kralchevsky and I.B. Ivanov. *"Micromechanical Description of Curved Interfaces, Thin Films and Membranes: II. Film Surface Tensions, Disjoining Pressure and Interfacial Stress Balance"*. *J. Colloid Interface Sci.* 137 (1990) 234-252.

20. A.D. Nikolov, P.A. Kralchevsky, I.B. Ivanov and D.T. Wasan. *"Ordered Micelle Structuring in Thin Films Formed from Anionic Surfactant Solutions: II. Model Development"*. *J. Colloid Interface Sci.*, 133 (1989) 13-22.

21. P.A. Kralchevsky, A.D. Nikolov, D.T. Wasan and I.B. Ivanov. *"Formation and Expansion of Dark Spots in Stratifying Foam Films"*. *Langmuir* 6 (1990) 1180-1189.

22. L.A. Lobo, A.D. Nikolov, A.S. Dimitrov, P.A. Kralchevsky and D.T. Wasan. *"Contact Angle of Air Bubbles Attached to an Air-Water Surface in Foam Applications"*. *Langmuir* 6 (1990) 995-1001.

23. I.B. Ivanov, A.D. Nikolov, P.A. Kralchevsky and N.D. Denkov. *"Reply to the Letter by Derjaguin and Churaev"*. *J. Colloid Interface Sci*. 134 (1990) 294-296.

24. A.S. Dimitrov, P.A. Kralchevsky, A.D. Nikolov and D.T. Wasan. *"Contact Angles of Thin Liquid Films – Interferometric Determination"*. *Colloids and Surfaces* 47 (1990) 299-321.

25. T.D. Gurkov and P.A. Kralchevsky. *"Surface Tension and Surface Energy of Curved Interfaces and Membranes". Colloids and Surfaces* 47 (1990) 45-68.

26. P.A. Kralchevsky, N.D. Denkov, I.B. Ivanov and A.D. Nikolov. *"Attraction between Brownian Particles of Identical Charge in Colloid Crystals"*. *Chem. Phys. Letters,* 166 (1990) 452-458.

27. A.D. Nikolov, D.T. Wasan, N.D. Denkov, P.A. Kralchevsky and I.B. Ivanov. *"Drainage of Foam Films in the Presence of Non-ionic Micelles"*. *Prog. Colloid Polym. Sci,* 82 (1990) 87-98.

28. N.D. Denkov, P.A. Kralchevsky, I.B. Ivanov and C.S. Vassilieff. *"Effect of Droplet Deformation on the Interactions in Microemulsions"*. *J. Colloid Interface Sci.* 143 (1991) 157-173.

29. P.A. Kralchevsky, N.D. Denkov, V.N. Paunov, O.D. Velev, I.B. Ivanov, H. Yoshimura and K. Nagayama, *"Formation of Two-Dimensional Colloid Crystals in Liquid Films under the Action of Capillary Forces"*, *J. Phys.: Condens. Matter* 6 (1994) A395-A402.

30. P.A. Kralchevsky, I.B. Ivanov and A.S. Dimitrov, *"Fluctuation-Dissipation Processes and Contact Angles of Thin Liquid Films" Chem. Phys. Letters* 187 (1991) 129-136.

31. C.D. Dushkin, I.B. Ivanov, P.A. Kralchevsky. *"Kinetics of the Interfacial Tension on Flat and Spherical Interfaces at Small Deviations from Equilibrium"*, *Ann. Univ. Sofia, Fac. Chem*. 84 (1992) 23-36.

32. A.S. Dimitrov, P.A. Kralchevsky, A.D. Nikolov, H. Noshi and M. Matsumoto. *"Contact Angle Measurements with Sessile Drops and Bubbles"*, *J. Colloid Interface Sci*. 145 (1991) 279-282.

33. P.A. Kralchevsky and T.D. Gurkov. *"The van der Waals Component of the Interfacial Bending Moment: I. Contribution of the Pressure Tensor Tails"*. *Colloids Surfaces,* 56 (1991) 101-118.

34. T.D. Gurkov, P.A. Kralchevsky and I.B. Ivanov. *"The van der Waals Component of the Interfacial Bending Moment: II. Model Development and Numerical Results"*, *Colloids Surfaces*,56 (1991) 119-148.

35. P.A. Kralchevsky, T.D. Gurkov and I.B. Ivanov. *"The Interfacial Bending Moment: Thermodynamics and Contributions of the Electrostatic Interactions"*, *Colloids Surfaces*, 56 (1991) 149-176.

36. C.D. Dushkin, I.B. Ivanov, P.A. Kralchevsky, *"The Kinetics of the Surface Tension of Micellar Surfactant Solutions"*, *Colloids Surfaces* 60 (1991) 235-261.

37. E.S. Basheva, A.D. Nikolov, P.A. Kralchevsky, I.B. Ivanov and D.T. Wasan, *"Multi-Step-Wise Drainage and Viscosity of Macroscopic Films from Concentrated Micellar Solutions and Latex Suspensions"*, in Surfactants in Solution", K.L. Mittal, Ed., Vol.11, Plenum Press, New York, 1991, p. 467-479.

38. I.B. Ivanov, P.A. Kralchevsky, A.S. Dimitrov and A.D. Nikolov, *"Dynamics of Contact Lines in Foam Films"*, *Adv. Colloid Interface Sci.,* 39 (1992) 77-102.

39. J.K. Angarska, K.D. Tachev, I.B. Ivanov, P.A .Kralchevsky and E.F. Leonard, *"Red Blood Cell Interaction with a Glass Surface"*, in: Cell and Model Membrane Interactions", S. Okhi, Ed. in: Plenum Press, New York, 1991, p. 199-213.

40. I.B. Ivanov, A.S. Dimitrov, A.D. Nikolov, N.D. Denkov and P.A. Kralchevsky, *"Contact Angle, Film and Line Tension of Foam Films. I. Contact Angle Measurements"*, *J. Colloid Interface Sci*. 151 (1992) 446-461.

41. A.S. Dimitrov, A.D. Nikolov, P.A. Kralchevsky and I.B. Ivanov, *"Contact Angle, Film and Line Tension of Foam Films. II. Film and Line Tension Measurements"*, *J. Colloid Interface Sci*. 151 (1992) 462-476.

42. N.D. Denkov, I.B. Ivanov, P.A. Kralchevsky, and D.T. Wasan, *"A Possible Mechanism of Stabilisation of Emulsions with Solid Particles"*, *J. Colloid Interface Sci.* 150 (1992) 589-593.

43. P.A. Kralchevsky, V.N. Paunov, I.B. Ivanov and K. Nagayama, *"Capillary Meniscus Interactions between Colloidal Particles Attached to a Liquid-Fluid Interface"*, *J. Colloid Interface Sci.* 151 (1992) 79-94.

44. P.A. Kralchevsky, Y. Radkov and N. Denkov, *"Adsorption from Surfactant Solutions under Diffusion Control"*, *J. Colloid Interface Sci*. 161 (1993) 361-365.

45. P.A. Kralchevsky and V.N. Paunov, *"Contribution of Ionic Correlations to Excess Free Energy and Disjoining Pressure of Thin Liquid Films. I. Electric double Layer Inside the Film"*, *Colloids Surfaces* 64 (1992) 245-264.

46. V.N. Paunov, P.A. Kralchevsky *"Contribution of Ionic Correlations to Excess Free Energy and Disjoining Pressure of Thin Liquid Films. II. Electric Double Layer Outside the Film"*, *Colloids Surfaces* 64 (1992) 265-274.

47. D.T. Wasan, A.D. Nikolov, P.A. Kralchevsky, I.B. Ivanov, *"Universality in Film Stratification Due to Colloid Crystal Formation"*, *Colloids Surfaces*, 67 (1992) 139-145.

48. V.N. Paunov, P.A. Kralchevsky, N.D. Denkov, I.B. Ivanov and K. Nagayama, *"Capillary Meniscus Interaction between a Microparticle and a Wall"*, *Colloids Surfaces,* 67 (1992) 119-138.

49. P.A. Kralchevsky, *"Capillary Interactions and Two-Dimensional Ordering of Colloidal Particles"*, in: "Proceeding of the Annual Conference of the Electrochemical Society of Japan", Tokyo, p. 7-9, 1992.

50. N.D. Denkov, O.D. Velev, P.A. Kralchevsky, I.B. Ivanov, H. Yoshimura and K. Nagayama, *"Mechanism of Formation of Two-Dimensional Crystals from Latex Particles on Substrates", Langmuir* 8 (1992) 3183-3190.

50a. O.D. Velev, N.D. Denkov, P.A. Kralchevsky, I.B. Ivanov, H. Yoshimura and K. Nagayama, "*Mechanism of Formation of Two-Dimensional Crystals from Latex Particles on Substrata*, *Progress in Colloid & Polymer Science* 93 (1993) 366-367.

51. N.D. Denkov, O.D. Velev, P.A. Kralchevsky, I.B. Ivanov, K. Nagayama, H. Yoshimura, *"Two-Dimensional Crystallisation"*, *Nature* (London) 361(6407) (1993) 26-26.

52. P.A. Kralchevsky, V.N. Paunov, N.D. Denkov, I.B. Ivanov and K. Nagayama, *"Energetical and Force Approaches to the Capillary Interactions between Particles Attached to a Liquid-Fluid Interface"*, *J. Colloid Interface Sci.,* 155 (1993) 420-437.

53. V.N. Paunov, P.A. Kralchevsky, N.D. Denkov and K. Nagayama, *"Lateral Capillary Forces Between Floating Submillimeter Particles"*, *J. Colloid Interface Sci.* 157 (1993) 100-112.

54. P.A. Kralchevsky, A.S. Dimitrov and K. Nagayama, *"Analytical Expressions for the Shape of Small Drops and Bubbles"*, *J. Colloid Interface Sci.* 160 (1993) 236-242.

55. P. A. Kralchevsky, J. C. Eriksson, S. Ljunggren, *"Theory of Curved Interfaces and Membranes: Mechanical and Thermodynamical Approaches"*, *Adv. Colloid Interface Sci.*, 48 (1994) 19-59.

56. S. Ljunggren, J. C. Eriksson, P. A. Kralchevsky, *"Tracing the Connection between Different Expressions for the Laplace Pressure of a General Curved Interfaces"*, *J. Colloid Interface Sci.* 161 (1993) 133-137.

57. T.D. Gurkov, P.A. Kralchevsky, I.B. Ivanov, *"Surface Bending Moments and the Interfacial Composition in Emulsion Systems"*, *Proc. First World Congress on Emulsions,* Paris, 1993, 2-31, 132.

58. T. Horozov, K. D. Danov, P. A. Kralchevsky, I. B. Ivanov, R. P. Borwankar, *"A Local Approach in Interfacial Rheology: Theory and Experiment."* *Proc. First World Congress on Emulsions*, Paris, 1993; Vol. 2, paper 3-20-137.

59. P.A. Kralchevsky and K. Nagayama, *"Capillary Forces between Colloidal Particles"*, *Langmuir* 10 (1994) 23-36.

60. O.D. Velev, N.D. Denkov, V.N. Paunov, P.A. Kralchevsky and K. Nagayama, *"Direct Measurement of Lateral Capillary Forces"*, *Langmuir* 9 (1993) 3702-3709.

61. P.A. Kralchevsky, V.N. Paunov, N.D. Denkov and K. Nagayama, *"Capillary Image Forces: I. Theory"*, *J. Colloid Interface Sci*. 167 (1994) 47-65.

62. O.D. Velev, N.D. Denkov, V.N. Paunov, P.A. Kralchevsky, K. Nagayama, *"Capillary Image Forces: II. Experiment"*, *J. Colloid Interface Sci.* 167 (1994) 66-73.

63. G.S. Lazarov, N.D. Denkov, O.D. Velev, P.A. Kralchevsky, K. Nagayama, *"Formation of Two-Dimensional Structures from Colloid Particles on Fluorinated Oil Substrate"*, *J. Chem. Soc. Faraday Transactions* 90 (1994) 2077-2083.

64. P.A. Kralchevsky, V.N. Paunov, K. Nagayama, *"Lateral Capillary Interaction between Particles Protruding from a Spherical Liquid Layer"*, *J. Fluid Mech.* 299 (1995) 105-132.

65. P.A. Kralchevsky, K.D. Danov and I.B. Ivanov, *"Thin Liquid Film Physics"*, in: "Foams: Theory, Measurements and Applications", R.K. Prud'homme & S.A. Khan, Eds.; Marcel Dekker, New York, 1995, p. 1-97.

66. D.N. Petsev, N.D. Denkov and P.A. Kralchevsky, *"Flocculation of Deformable Emulsion Droplets: II. Interaction Energy"*, *J. Colloid Interface Sci.* 176 (1995) 201-213.

67. P.A. Kralchevsky, C.D. Dushkin, V.N. Paunov, N.D. Denkov and K. Nagayama, "*Lateral Capillary Forces between Colloidal Particles Incorporated in Liquid Films or Lipid Bilayers*". *Prog. Colloid Polymer Sci.* 98 (1995) 12-17.

68. N.D. Denkov and P.A. Kralchevsky, *"Colloid Structural Forces in Thin Liquid Films"*. *Prog. Colloid Polymer Sci.* 98 (1995) 18-22.

69. P.A. Kralchevsky, V.N. Paunov, N.D. Denkov and K. Nagayama, "*Stresses in Lipid Membranes and Interactions between Inclusions*". *J. Chem. Soc. Faraday Trans.* 91 (1995) 3415-3432.

70. P.A. Kralchevsky and N.D. Denkov, *"Analytical Expression for the Oscillatory Structural Surface Force."* *Chem. Phys. Letters* 240 (1995) 385-392.

71. A.D. Nikolov, D.T. Wasan, P.A. Kralchevsky and I.B. Ivanov, *"Foam Film Stability: Role of Micellar Interaction on the Formation and Expansion of Spots in Stratifying Film. An Overview"*, in: *"Fluid Physics, Lecture Notes of Summer Schools",* M.G. Velarde and C.I. Christov, eds. World Scientific, London, 1995, pp. 209 - 228.

72. C.D. Dushkin, P.A. Kralchevsky, H. Yoshimura and K. Nagayama. *"Lateral Capillary Forces Measured by Torsion Microbalance". Phys. Rev. Lett.* 75 (1995) 3454-3457.

73. C.D. Dushkin, P.A. Kralchevsky, V.N. Paunov, H. Yoshimura and K. Nagayama. "*Torsion Balance for Measurement of Capillary Immersion Forces*". *Langmuir* 12 (1996) 641-651.

74. T.D. Gurkov, P.A. Kralchevsky and K. Nagayama, "*Formation of Dimers in Lipid Monolayers*". *Colloid Polymer Sci.* 274 (1996) 227-238.

75. P.A. Kralchevsky, T.D. Gurkov and K. Nagayama, "*Electric Component of the Interfacial Bending Moment and Curvature Elastic Moduli*". *J. Colloid Interface Sci.* 180 (1996) 619-622.

76. V.N. Paunov, R.I. Dimova, P.A. Kralchevsky, G. Broze and A. Mehreteab. *"The Hydration Repulsion between Charged Surfaces as an Interplay of Volume Exclusion and Dielectric Saturation Effects"*. *J. Colloid Interface Sci.* 182 (1996) 239-248.

77. P.A. Kralchevsky, *"Comments on the Conditions for Stable Attachment of Fluid Particles to Solid Surfaces"* *Langmuir* 12 (1996) 5951-5955.

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The publications by Peter Kralchevsky have been cited over 10,000 times in the scientific literature; h-index = 46 (Web of Science, March 14, 2020).

Patents

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Organisation of international conferences and membership in scientific committees

- Organiser of Workshop "Emulsification Process and Choice of Equipment" at the *Second World Congress on Emulsions*, Bordeaux, France, 23-26 September 1997.
- Member of the Scientific Committee of *Pan-European Formulation Conference* (The Royal Society of Chemistry, London), Formula IV; London, 3-7 July, 2005.

- Organiser of Workshop No. 4.3 "New Emulsifiers: New Chemistry, Polymers, Particles" at the *Fourth World Congress on Emulsions*, Lyon, France, 3-6 October 2006.
- Member of the Scientific Committee of the *3rd International Conference on Colloid Chemistry and Physicochemical Mechanics*, Moscow, Russia, 24-28 June 2008.
- Member of the Scientific Committee of the 7th *Eufoam Conference*, European Space Agency (ESA), Noordwijk, The Netherlands, 8-10 July 2008.
- Member of the Scientific Committee of the *22nd Conference of the European Colloid and Interface Society (ECIS)*, Krakow, Poland, 31 August – 5 September 2008.
- Member of the Editorial Board of the international journal *Advances in Colloid and Interface Science* (Elsevier) since 2008.
- Chair of the Management Committee of the ESF COST Action D43 *Colloid and Interface Science for Nanotechnology* (with participants from 32 countries) since November 2008.
- Organizer (jointly with N. Denkov) of the 8th *Eufoam Conference*, together with Workshop of the Workgroups of COST Action D43 *Colloid and Interface Science for Nanotechnology*, Borovets, Bulgaria, 12-16 July 2010.
- Member of the Scientific Committee of the *24th Conference of the European Colloid and Interface Society (ECIS)*, Prague, Czech Republic, 5 – 10 September 2010.
- Elected Secretary of the *European Colloid and Interface Society (ECIS)* at the Conference in Prague, Czech Republic, (2010-2016).
- Organizer of the COST D43 Training School *Fluids and Solid Interfaces,* Sofia, Bulgaria, 12–15 April 2011.
- Member of the Scientific Committee of the *25th Conference of the European Colloid and Interface Society (ECIS)*, Berlin, Germany, 4 – 9 September 2011.
- Member of the International Advisory Committee of the International Conference *Advanced Materials and Nanotechnology*, Kathmandu, Nepal, 21 – 23 October 2011.
- Vice Chair of the Management Committee of the ESF COST Action CM1101 *Colloidal Aspects of Nanoscience for Innovative Processes and Materials* (with participants from 35 countries) since January 2012.
- Organizer of the International Workshop “Discussion on Hydration Forces” COST CM1101, Sofia, Bulgaria, 1–4 April 2012.
- Member of the Scientific Committee of Workshop WG3 & WG4 Meeting: *Nano-biocolloidal materials and non-equilibrium self-assembly (CM1101)*, Barcelona, Spain, 23 – 24 May 2012.
- Member of the International Advisory Board of the 4th International Conference on Colloid Chemistry and Physico-chemical Mechanics. Moscow State University, Moscow, Russia, 1-5 July 2013.
- Member of the Scientific Committee of the 27th Conference of the European Colloid an Interface Society (ECIS), Sofia, Bulgaria, 1–6 September 2013.
- Member of the Program Committee of the International Scientific Conference UNITECH 2016, Gabrovo, Bulgaria, 18–19 November 2016
- Member of the Scientific Committee of the 31st Conference of the European Colloid an Interface Society (ECIS), Madrid, Spain, 3–8 September 2017.
- Member of the Scientific Committee of the 16th Conference of the International Association of Colloid and Interface Scientists (IACIS), Rotterdam, Netherlands, 21–25 May 2018.
- Member of the Scientific Committee of the 32nd Conference of the European Colloid an Interface Society (ECIS), Ljubljana, Slovenia, 2–7 September 2018.
- Member of the Council of the European Colloid an Interface Society (ECIS) and Secretary of ECIS http://www.ecis-web.eu/secretaries.htm (2010-present).

- Member of the Council of the International Association of Colloid and Interface Scientists (IACIS) https://www.iacis.net/index.php/about-iacis/ (2015-present).
- Organizer of the 17th European Student Colloid Conference, Varna, Bulgaria, 18-22 June 2019; https://www.esc2019.org/
- Member of the International Scientific Committee of the 8th Conference "Bubble & Drop", Sofia, Bulgaria, 24–28 June 2019; https://bd2019.eu/page/scientific-committee.php
- Member of the International Scientific Committee of the 34th Conference of the European Colloid an Interface Society (ECIS), Athens, Greece, 6–11 September 2020; https://www.ecis2020.org/committees

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