

# **Kiriaki Chrissopoulou**

## **Curriculum Vitae**



**Foundation for Research and Technology-Hellas  
Institute of Electronic Structure and Laser**

# ***CURICULUM VITAE***

Last Name: *Chrissopoulou*  
First Name: *Kiriaki*  
Date of Birth: *1 April 1968*  
Place of Birth: *Kavala, Greece*  
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## **EDUCATION**

- Ph.D. (2000). Physics Department, University of Patras. Advisor: Prof. C. Toprakcioglu (in collaboration with Prof. S. H. Anastasiadis and Prof. G. Fytas).  
***Thesis Title:*** Influence of Thermodynamic Incompatibility and Macromolecular Architecture on Block Copolymer Dynamics.
- Master of Science in Physics (1993), Physics Department, University of Crete.
- Diploma in Physics, (1986-1990), Physics Department, University of Crete.

## **LANGUAGES**

English (First Certificate in English-Cambridge)

French

## **ACADEMIC POSITIONS**

*December 2021- . Researcher B, Institute of Electronic Structure and Laser-Foundation for Research and Technology-Hellas.*

*December 2016- December 2021. Researcher C, Institute of Electronic Structure and Laser-Foundation for Research and Technology-Hellas.*

*September 2002 - 2016. Research Associate, Institute of Electronic Structure and Laser-Foundation for Research and Technology-Hellas.*

## **POST-DOCTORAL EXPERIENCE**

*May 2001- August 2002. Maître de conférences in Laboratoire de Physique de la Matière Condensée, Collège de France, Paris, France.*

*January 2000-April 2001. Polymer Group, Institute of Electronic Structure and Laser-Foundation for Research and Technology-Hellas.*

## **SYNOPSIS**

**Dr Chrissopoulou** has published 37 papers (plus one under review) in refereed journals, 8 in conference proceeding included in the citation index, 4 chapters in books and 1 editorial. Her work has received 940 total citations by June 1, 2022 (785 non-self) according to *Web of Science*. Her *h*-index is 18. Her work has been presented in more than 200 national and

international conferences. She has received the best oral presentation award in the XXV Panhellenic Conference on Solid State Physics & Materials Science (Thessaloniki 2009). She was member of the Management Committee for Greece in the COST Action MP1202 entitled "Rational design of hybrid organic-inorganic interfaces: the next step towards advanced functional materials". She has participated in the writing and submission of scientific proposals and the accomplishment and the management of the respective projects (both national and European), and in the training and supervision/co-supervision of a large number of students during their diploma, MSc and PhD thesis. She was member of the organizing committee of the 2008 Greek Solid State and Material Science Conference (September 2008, Fodele Crete), of the 11<sup>th</sup> Hellenic Polymer Society Conference (November 2016, Heraklion Crete), of the Eurofillers & Polymer Blends 2017 Conference (April 2017, Hersonissos, Crete, Greece) and of the European Polymer Congress EPF2019 (June 2019, Hersonissos, Crete Greece). She has organized a meeting entitled "*Nanostructured Hybrid Materials II: reinforced 3D structures, smart composites, self-healing*" in the framework of the COST Action MP1202 "Rational design of hybrid organic-inorganic interfaces: the next step towards advanced functional materials". She is reviewer in many journals in the field of polymer science and polymer nanocomposites.

## **RESEARCH INTERESTS**

Synthesis and characterization of organic-inorganic nanohybrids. Understanding and controlling the interactions and thus the miscibility of the constituents and investigation of the final structure utilizing X-Ray Diffraction and Transmission and Scanning Electron Microscopy. Study of the hybrids thermal, rheological and surface properties utilizing Differential Scanning Calorimetry, Rheology and surface tension measurements. Investigation of the local and the segmental dynamics in polymers either under severe confinement like for example intercalated chains within the 1nm interlayer distances of layered silicates and/or close to the surface of the inorganic additives. Influence of the presence of the inorganic additives and / or of the severe confinement on the polymer crystallization and chain conformations. Control of the degree of crystallinity. Investigation of crystallization kinetics. Study of the effect of the chemical nature and of the architecture of the polymer as well as of the kind and the geometry of the inorganic additive in all the above.

Polymer surfaces and interfaces. Measurement of the adhesion between a solid surface and an elastomer and investigation of the influence of grafted on the surface polymer chains. Influence of the grafted chains molecular weight, the grafting density as well as of the molecular weight between crosslinks of the elastomer. Investigation of the hydrophobicity and of the oleophobicity of flexible and / or hard surfaces and modification of their surface properties via appropriately chosen polymer coatings that contain inorganic nanoadditives in order to become superhydrophobic and water-repellent.

Static and dynamic investigation of multi-constituent polymer systems with particular interest in solutions of linear diblock copolymers in the dilute and semidilute regime utilizing Static and Dynamic Light Scattering. Investigation of the chain self-diffusion with Nuclear Magnetic Resonance. Study of the influence of thermodynamic incompatibility and topological constraints in the self-diffusion and in the collective motion of the polymer chains. Influence of the macromolecular architecture on the static and dynamic behavior. Control of their macroscopic mechanical response through rheological measurements.

Study of the segmental motion of tetrablock copolymers in the bulk.

Micellization in copolymer/homopolymer mixtures either in solution or in the melt as a function of the molecular weight, the composition and the macromolecular architecture of the copolymer as well as the concentration in the solution utilizing Small Angle X-Ray Scattering and Dynamic Light Scattering.

## **DISTINCTIONS AND AWARDS**

- Best oral presentation award in the XXV Panhellenic Conference on Solid State Physics & Materials Science (Thessaloniki 2009) for a presentation entitled “*Effect of Inorganic Additive on the Chain Crystallization in Polymer / Layered Silicate Nanohybrids*”.
- Member of the Management Committee for Greece in the COST Action MP1202 entitled “Rational design of hybrid organic-inorganic interfaces: the next step towards advanced functional materials”.
- Elected Member of the Hellenic Polymer Society Board-Treasurer (2016- ).
- Guest Editor of a Special Issue of Colloid and Polymer Science (Springer) which is dedicated to the European Polymer Congress EPF2019.

## **TEACHING EXPERIENCE**

*Spring semester 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020, 2020-2021 and 2021-2022.* Co-Teaching of the course “Polymer Science” in the Department of Chemistry of the University of Crete.

*Spring semester 2009-2010.* Associate visiting professor in the Department of Chemistry of the University of Crete. Teaching of the course “Polymer Science”.

*Spring semester 2006-2007 and 2007-2008.* Teaching of the course “Physics and Chemical Physics of Polymers” (undergraduate and graduate course) in the Department of Physics of the University of Crete.

*September 2004-August 2005.* Assistant visiting professor in the Department of Materials Science and Technology of the University of Crete. Teaching of the laboratory course “Physics I: Mechanics-Heat” and of the laboratory course “Synthesis and Characterization of Soft Matter”

- Design and execution of the experiments (in collaboration with Dr. M. Vamvakaki and Dr. S. Parouti) for the laboratory course “Synthesis and Characterization of Soft Matter” as it was the first time that was being taught.
- Writing of the textbook (in collaboration with Dr. M. Vamvakaki and Dr. S. Parouti) for the laboratory course “Synthesis and Characterization of Soft Matter”. The specific textbook is being taught up to now.

*September 2002-August 2004.* Lecturer visiting professor in the Department of Materials Science and Technology of the University of Crete. Teaching of the laboratory courses “Physics I: Mechanics-Heat” (winter semester) and Physics II: Electricity-Optics” (spring semester).

Teaching assistant (1989-1993) in laboratory courses for the first and second year students in the Department of Physics of the University of Crete.

## PUBLICATIONS IN REFEREED JOURNALS

1. T. Efthimiopoulos, M. E. Movsessian, M. Katharakis, N. Merlemis and K. Chrissopoulou  
"Study of the  $5P_{3/2}$ - $4S_{1/2}$  emission in K under two-photon  $4S_{1/2}$ - $6S_{1/2}$  excitation"  
*J. Phys. B: At. Mol. Opt. Phys.* **29**, 5619-5627 (1996).
2. S. H. Anastasiadis,\* K. Chrissopoulou, G. Fytas, M. Appel, G. Fleischer, K. Adachi, and Y. Gallot  
"Self Diffusivity of Diblock Copolymers in Solutions in Neutral Good Solvents"  
*Acta Polymer.* **47**, 250-264 (1996).
3. S. H. Anastasiadis,\* K. Chrissopoulou, G. Fytas, G. Fleischer, S. Pispas, M. Pitsikalis, J. W. Mays, and N. Hadjichristidis  
"Self-Diffusivity in Block Copolymer Solutions: 2. A2B Simple grafts"  
*Macromolecules* **30**, 2445-2453 (1997).
4. K. Chrissopoulou, Y. Tselikas, S. H. Anastasiadis, G. Fytas,\* A. N. Semenov, G. Fleischer, N. Hadjichristidis, and E. L. Thomas  
"Macromolecular Architecture Effects on Block Copolymer Dynamics: Linear Tetrablocks and Inverse Starblocks"  
*Macromolecules* **32**, 5115-5126 (1999).
5. K. Chrissopoulou, S. Harville, S. H. Anastasiadis,\* G. Fytas, J. Mays, and N. Hadjichristidis  
"Macromolecular Architecture Effects on Block Copolymer Dynamics: II. A2B Simple Grafts"  
*J. Polym. Sci., Polym. Phys.* **37**, 3385-3391 (1999).
6. S. H. Anastasiadis,\* F. Rittig, K. Chrissopoulou, G. Fleischer, G. Fytas, A. N. Semenov, J. Kärger, M. Xenidou, and N. Hadjichristidis  
"Chain Trapping in Diblock Copolymers near the Ordering Transition"  
*Europhys. Lett.* **51**, 68-74 (2000).
7. K. Chrissopoulou, V. A. Pryamitsyn, S. H. Anastasiadis,\* G. Fytas,\* A. N. Semenov, M. Xenidou and N. Hadjichristidis  
"Dynamics of the Most Probable Composition Fluctuations of Real Diblock Copolymers Near the Ordering Transition"  
*Macromolecules* **34**, 2156-2171, (2001).
8. K. Chrissopoulou, L. Papoutsakis, S. H. Anastasiadis,\* G. Fytas, G. Fleischer and Y. Gallot  
"Intermediate Wavelength Composition Fluctuations in Diblock Copolymers: Modification of the Diffusive Mode near the Ordering Transition"  
*Macromolecules* **35**, 522-528, (2002).
9. M. Doxastakis, K. Chrissopoulou, A. Aouadi, B. Frick, T. P. Lodge, and G. Fytas\*  
"Segmental dynamics of disordered styrene-isoprene tetrablock copolymers"  
*Journal of Chemical Physics* **116**, 4707-4714, (2002).
10. B. Frick,\* C. Alba-Simionesco, G. Dosseh, C. Le Quellec, A. J. Moreno, J. Colmenero, A. Schonhals, R. Zorn, K. Chrissopoulou, S. H. Anastasiadis, and K. Dalnoki-Veress  
"Inelastic neutron scattering for investigating the dynamics of confined glass-forming liquids"  
*Journal of Non-Crystalline Solids* **351**, 2657-2667 (2005).

11. K. Chrissopoulou,\* I. Altintzi, S. H. Anastasiadis, E. P. Giannelis, M. Pitsikalis, N. Hadjichristidis, and N. Theophilou  
*"Controlling the Miscibility of Polyethylene / Layered Silicate Nanocomposites by Altering the Polymer / Surface Interactions"*  
*Polymer* **46**, 12440-12451, (2005).
12. M. M. Elmahdy, K. Chrissopoulou, A. Afratis, G. Floudas,\* and S. H. Anastasiadis\*  
*"Effect of confinement on the polymer segmental motion and on ion mobility in poly(ethylene oxide) / layered-silicate nanocomposites"*  
*Macromolecules* **39**, 5170-5173, (2006) [Communication to the Editor].
13. K. Chrissopoulou, A. Afratis, S. H. Anastasiadis,\* M. M. Elmahdy, G. Floudas, and B. Frick  
*"Structure and Dynamics in PEO nanocomposites"*  
*European Physical Journal- Special Topics* **141**, 267-271 (2007).
14. K. Chrissopoulou,\* S. H. Anastasiadis,\* E. P. Giannelis, and B. Frick  
*"Quasielastic Neutron Scattering of Poly(methyl phenyl siloxane) in the Bulk and under Severe Confinement"*  
*Journal of Chemical Physics* **127**, 144910-1-13 (2007).
15. S. H. Anastasiadis,\* K. Chrissopoulou, and B. Frick  
*"Structure and Dynamics in Polymer / Layered Silicate Nanocomposites"*  
*Materials Science and Engineering B* **152**, 33-39 (2008).
16. K. Chrissopoulou,\* I. Altintzi, I. Andrianaki, R. Shemesh, H. Retsos, E. P. Giannelis and S. H. Anastasiadis  
*"Understanding and Controlling the Structure of Polypropylene / Layered Silicate Nanocomposites"*  
*Journal of Polymer Science Part B: Polymer Physics* **46**, 2683-2695 (2008).
17. S. Fotiadou, K. Chrissopoulou,\* B. Frick and S. H. Anastasiadis  
*"Structure and Dynamics of Polymer Chains in Hydrophilic Nanocomposites"*  
*Journal of Polymer Science Part B: Polymer Physics* **48**, 1658-1667 (2010).
18. K. Chrissopoulou and S. H. Anastasiadis\*  
*"Polyolefin / Layered Silicate Nanocomposites with Functional Compatibilizers"*  
*European Polymer Journal* **47**, 600-613 (2011).
19. K. Chrissopoulou,\* K. S. Andrikopoulos, S. Fotiadou, S. Bollas, C. Karageorgaki, D. Christofilos, G. A. Voyiatzis and S. H. Anastasiadis  
*"On the Crystallinity and Chain Conformation in PEO / Layered Silicate Nanocomposites"*  
*Macromolecules* **44**, 9710-9722 (2011).
20. H. Papananou, S. Fotiadou, K. Chrissopoulou,\* and S. H. Anastasiadis  
*"Crystallinity and Crystallization Kinetics in Poly(ethylene oxide) / Layered Silicate Nanocomposites"*  
*Materials Science Forum* **714**, 85-90 (2012).
21. S. Fotiadou, C. Karageorgaki, K. Chrissopoulou,\* K. Karatasos, I. Tanis, D. Tragoudaras, B. Frick and S. H. Anastasiadis  
*"Structure and Dynamics of Hyperbranched Polymers/Layered Silicate Nanocomposites"*  
*Macromolecules* **46**, 2842-2855 (2013).

22. K. Chrissopoulou, S. Fotiadou, B. Frick and S. H. Anastasiadis\*  
*"Structure and Dynamics in Hydrophilic Polymer / Layered Silicate Nanocomposites"*  
*Macromolecular Symposia* **331-332**, 50-57 (2013).
23. P. Kunzo,\* P. Lobotka, E. Kovacova, K. Chrissopoulou, L. Papoutsakis, S. H. Anastasiadis, Z. Krizanova and I. Vavra  
*"Nanocomposites of Polyaniline and Titania Nanoparticles for Gas Sensors"*  
*Phys. Status Solidi A* **210**, 2341-2347 (2013).
24. K. Androulaki, K. Chrissopoulou,\* D. Prevosto, M. Labardi and S. H. Anastasiadis\*  
*"Dynamics of Hyperbranched Polymer under Confinement: A Dielectric Relaxation Study"*  
*ACS Appl. Mater. Interfaces* **7**, 12387-12398 (2015).
25. K. Chrissopoulou and S. H. Anastasiadis\* (invited Review)  
*"Effects of Nanoscopic-Confinement on Polymer Dynamics"*  
*Soft Matter* **11**, 3746-3766 (2015).
26. S. Bollas, K. Chrissopoulou,\* K. S. Andrikopoulos, G. A. Voyiatzis and S. H. Anastasiadis\* (invited feature article)  
*"Polymer Conformations close to Surfaces"*  
*Polymers* **9(2)**, 73 (1-14) (2017).
27. A. N. Rissanou, H. Papananou, V. S. Petrakis, M. Doxastakis, K. S. Andrikopoulos, G. A. Voyiatzis, K. Chrissopoulou,\* V. Harmandaris\* and S. H. Anastasiadis  
*"Structural and Conformational Properties of Poly(ethylene oxide)/Silica Nanocomposites: Effect of Confinement"*  
*Macromolecules* **50**, 6273-6284 (2017).
28. H. Papananou, E. Perivolari, K. Chrissopoulou\* and S. H. Anastasiadis\*  
*"Tuning Polymer Crystallinity via the Appropriate Selection of Inorganic Nanoadditives"*  
*Polymer* **157**, 111-121 (2018).
29. A. Kiersnowski,\* K. Chrissopoulou, P. Selter, D. Chlebosz, B.-Y. Hou, I. Lieberwirth, V. Honkimaki, M. Mezger, S. H. Anastasiadis and M. R. Hansen\*  
*"Formation of Oriented Polar Crystals in Bulk Poly(vinylidene fluoride) / High-Aspect-Ratio Organoclay Nanocomposites"*  
*Langmuir* **34**, 13375-13386 (2018).
30. K. Androulaki, K. Chrissopoulou,\* D. Prevosto, M. Labardi and S. H. Anastasiadis\*  
*"Structure and Dynamics of Biobased Polyester Nanocomposites"*  
*Biomacromolecules* **20**, 164-176 (2019).
31. M. Xygkis, E. Gagaoudakis, L. Zouridi, O. Markaki, E. Aperathitis, K. Chrissopoulou, G. Kiriakidis and V. Binas\*  
*"Thermochromic Behavior of VO<sub>2</sub> / Polymer Nanocomposites for Energy Saving Coatings"*  
*Coatings* **9**, 163(1-12), (2019).
32. J. E. Houston, E. A. Kelly, M. Kruteva, K. Chrissopoulou, N. Cowieson and R. C. Evans\*  
*"Multimodal control of liquid crystalline mesophases from surfactants with photoswitchable tails"*  
*Journal of Materials Chemistry C* **9**, 10945-10952, (2019).

33. K. Androulaki, K. Chrissopoulou,\* M. Labardi and S. H. Anastasiadis  
*"Effect of Interfacial Interactions on Static and Dynamic Behavior of Hyperbranched Polymers: Comparison between Different Layered Nanoadditives"*  
*Polymer* **222**, 123646, (2021).
34. E. Pavlopoulou,\* K. Chrissopoulou, S. Pispas, N. Hadjichristidis and S. H. Anastasiadis\*  
*"The Micellization of Well-Defined Single Graft Copolymers in Block Copolymer/Homopolymer Blends"*  
*Polymers* **12**, 833, (2021).
35. K. Chrissopoulou,\* K. Androulaki, M. Labardi and S. H. Anastasiadis  
*"Static and Dynamic Behavior of Polymer/Graphite Oxide Nanocomposites before and after Thermal Reduction"*  
*Polymers* **13**, 2008, (2021).
36. S. H. Anastasiadis,\* E. Stratakis, P. Kavatzikidou, G. Kaklamani, K. Chrissopoulou and A. Ranella  
*"How the Physicochemical Properties of Manufactured Nanomaterials Affect Functionalities"*  
*Nanomaterials* **12**, 552, (2022).
37. F. Gojda, M. Loulakis, L. Papoutsakis, S. Tzortzakis, Kiriaki Chrissopoulou and S. H. Anastasiadis\*  
*"Altering Surface Properties Utilizing Facile and Ecological Methods"*  
*Langmuir* **38**, 4826, (2022).
38. A. J. Power, H. Papananou, A. N. Rissanou, M. Labardi, K. Chrissopoulou,\* V. Harmandaris\* and S. H. Anastasiadis\*  
*"Dynamics of Polymer Chains in poly(ethylene oxide) / Silica Nanocomposites via a Combined Computational and Experimental Approach"*  
*J. Phys. Chem.*, Submitted (2022)

## CHAPTERS IN BOOKS

1. G. Fytas, K. Chrissopoulou, S. H. Anastasiadis, D. Vlassopoulos, and K. Karatasos  
 "Photon Correlation Spectroscopy of Interactive Polymer Systems"  
 In *"Light Scattering and Photon Correlation Spectroscopy"*, E. R. Pike, and J. B. Abbiss, Eds., NATO Advanced Science Institutes Series, 1997, pp. 131.
2. K. Chrissopoulou, F. Rittig, and G. Fytas  
 "Long Wavelength Composition Fluctuations in Diblock Copolymers"  
 In *"Molecular Interactions and Time-Space Organization in Macromolecular Systems"*, Morishima, Norisuye, and Tashiro, Eds, Springer Verlag: Berlin 1999.
3. K. Chrissopoulou and S. H. Anastasiadis (**invited**)  
 "Polyolefin Nanocomposites with functional compatibilizers"  
 In *"Advances in Polyolefin Nanocomposites"*  
 Taylor and Francis (CRC Press), USA, December 2010.
4. K. Chrissopoulou and S. H. Anastasiadis (**invited**)  
 "Dynamics of Hyperbranched Polymers under Severe Confinement: The case of polymer nanocomposites"  
 In *"Molecular Mobility of Composites"*, Springer Nature, Switzerland, 2022



## **PUBLICATIONS IN CONFERENCE PROCEEDINGS (included in the Citation Index)**

1. K. Chrissopoulou, S. H. Anastasiadis, E. P. Giannelis, and B. Frick  
"Dynamics under severe confinement in intercalated polymer / layered silicates nanocomposites"  
*Polym. Mater. Sci. Eng., Amer. Chem. Soc.* **92**, 233 (2005).
2. I. Altintzi, K. Chrissopoulou, S. H. Anastasiadis, M. Pitsikalis, N. Hadjichristidis, N. Theophilou, and E. P. Giannelis  
"Controlling the miscibility of polyolefin / layered silicates nanocomposites by altering the polymer / surface interactions"  
*Polym. Mater. Sci. Eng., Amer. Chem. Soc.* **92**, 252 (2005).
3. S. H. Anastasiadis, K. Chrissopoulou, A. Afratis, S. Fotiadou, E. P. Giannelis, and B. Frick  
"Confinement Effects on the Structure and Dynamics in Intercalated Polymer/Layered Silicates Nanohybrids"  
*Polym. Mater. Sci. Eng., Amer. Chem. Soc.* **97**, 786 (2007).
4. K. Chrissopoulou, A. Afratis, S. Fotiadou, B. Frick and S. H. Anastasiadis  
"Effects of Severe Confinement on the Structure and Dynamics in Polymer Nanocomposites"  
*AIP Conf. Proc.* **1027**, 1303 (2008)
5. E. Pavlopoulou, K. Chrissopoulou, S. H. Anastasiadis, G. Portale, W. Bras, H. Iatrou, S. Pispas and N. Hadjichristidis  
"Influence of macromolecular architecture on the micellization of block copolymers within homopolymer matrices"  
*Polym. Prepr., Amer. Chem. Soc., Div. Polym. Chem.* **51**(2), 328 (2010).
6. K. Chrissopoulou, A. Afratis, S. Fotiadou, B. Frick and S. H. Anastasiadis  
"Confinement Effects on the Structure and Dynamics in Intercalated Polymer / Layered Silicate Nonohybrids"  
*AIP Conf. Proc.* **1255**, 79-81 (2010).
7. K. Chrissopoulou, S. Fotiadou, K. Androulaki, I Tanis, K. Karatasos, D. Prevosto, M. Labardi, B. Frick and S. H. Anastasiadis  
"Dynamics of Dendritic Polymers in the Bulk and Under Confinement"  
*AIP Conf. Proc.* **1599**, 250-253 (2014).
8. K. Chrissopoulou, K. Androulaki, D. Prevosto, M. Labardi and S. H. Anastasiadis  
"Effect of confinement and molecular architecture on interfacial dynamics"  
*AIP Conf. Proc.* **1736**, 020049 (2016); doi:10.1063/1.4949624.

## CITATIONS: DISTRIBUTION PER PUBLICATION

No	Publication	Total Citations	Hetero-citations	Impact Factor
1	<i>J. Phys. B: At. Mol. Opt. Phys.</i> <b>29</b> , 5619-5627 (1996)	13	13	2,024
2	<i>Acta Polymer.</i> <b>47</b> , 250-264 (1996)	19	14	
3	<i>Macromolecules</i> <b>30</b> , 2445-2453 (1997)	9	5	5,914
4	<i>Macromolecules</i> <b>32</b> , 5115-5126 (1999)	14	12	5,914
5	<i>J. Polym. Sci., Polym. Phys.</i> <b>37</b> , 3385-3391 (1999)	7	7	2,221
6	<i>Europhys. Lett.</i> <b>51</b> , 68-74 (2000)	10	9	2,229
7	<i>Macromolecules</i> <b>34</b> , 2156-2171, (2001)	18	17	5,914
8	<i>Macromolecules</i> <b>35</b> , 522-528, (2002)	4	4	5,914
9	<i>Journal of Chemical Physics</i> <b>116</b> , 4707-4714, (2002)	23	20	2,997
10	<i>Journal of Non-Crystalline Solids</i> <b>351</b> , 2657-2667 (2005)	<b>50</b>	37	2,60
11	<i>Polymer</i> , <b>46</b> , 12440-12451, (2005)	<b>94</b>	81	4,231
12	<i>Macromolecules</i> , <b>39</b> , 5170-5173, (2006)	<b>157</b>	144	5,914
13	<i>European Physical Journal- Special Topics</i> , <b>141</b> , 267-271 (2007)	23	16	1,876
14	<i>Journal of Chemical Physics</i> <b>127</b> , 144910-1-13 (2007)	31	20	2,997
15	<i>Materials Science and Engineering B</i> , <b>152</b> , 33-39 (2008)	31	23	1,577-4,709
16	<i>J. Polym. Sci., Part B: Polym. Phys.</i> <b>46</b> , 2683-2695 (2008)	29	21	2,221
17	<i>J. Polym. Sci., Part B: Polym. Phys.</i> <b>48</b> , 1658-1667 (2010)	26	18	2,221
18	<i>European Polymer Journal</i> <b>47</b> , 600-613 (2011)	<b>81</b>	76	3,621
19	<i>Macromolecules</i> , <b>44</b> , 9710-9722, (2011)	<b>83</b>	75	5,914
20	<i>Materials Science Forum</i> , <b>714</b> , 85-90 (2012)	2		
21	<i>Macromolecules</i> , <b>46</b> , 2842-2855, (2013)	37	30	5,914
22	<i>Macromolecular Symposia</i> , <b>331-332</b> , 50-57 (2013)	2	1	0,913
23	<i>Phys. Status Solidi A</i> , <b>210</b> , 2341-2347 (2013)	15	13	1,469
24	<i>ACS Applied Materials and Interfaces</i> , <b>7</b> , 12387-12398 (2015)	32	25	8,758
25	<i>Soft Matter</i> , <b>11</b> , 3746-3766 (2015)	40	33	4,029
26	<i>Polymers</i> , <b>9</b> , 73(1-14) (2017)	7	4	3,426
27	<i>Macromolecules</i> , <b>50</b> , 6273-6284 (2017)	23	16	5,914
28	<i>Polymer</i> <b>157</b> , 111-121 (2018)	31	25	4,231
29	<i>Langmuir</i> <b>34</b> , 13375–13386 (2018)	2	2	3,683
30	<i>Biomacromolecules</i> , <b>20</b> , 164-176 (2019)	7	5	5,667
31	<i>Coatings</i> , <b>9</b> , 163(1-12), (2019)	9	9	2,718
32	<i>Journal of Materials Chemistry C</i> , <b>9</b> , 10945-10952, (2019)	8	8	7,059
33	<i>Polymer</i> , <b>222</b> , 123646, (2021)	1		4,231
34	<i>Polymers</i> , <b>12</b> , 833, (2021)			3,426
35	<i>Polymers</i> , <b>13</b> , 2008, (2021)			3,426
36	<i>Nanomaterials</i> , <b>12</b> , 552, (2022)	2	2	4,921
37	<i>Langmuir</i> , <b>38</b> , 4826 (2022)			3,683
	<b>Total</b>	<b>940</b>	<b>785</b>	



## SPECIAL CITATIONS AND REFERENCES

1. The paper no 7 [Chrissopoulou, et al., "Dynamics of the Most Probable Composition Fluctuations of 'Real' Diblock Copolymers near the Ordering Transition", *Macromolecules* **34**, 2156-2171 (2001)] is referred in the book "Block Copolymers: Synthetic Strategies, Physical Properties, and Applications", by N. Hadjichristidis, S. Pispas, and G. Floudas, Wiley-Interscience, 2003. Figure 20.3 that is shown is based on the results of our article.
2. The paper no 12 [Elmahdy, et al., "Effect of confinement on Polymer Segmental Motion and Ion Mobility in PEO/Layered-Silicate Nanocomposites", *Macromolecules* **39**, 5170-5173 (2006)] is referred in the book "Polymer Nanocomposite Research Advances", S. Thomas and G. Zaikov, Eds., Nova Science Publishers, 2008. Figure 15 of chapter 19 of the book is based on the results of our article.
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*XXIII Panhellenic Conference on Solid State Physics and Materials Science*, September 2007, Athens, Greece (Conference proceedings p. 173)
66. K. Chrissopoulou, and S. H. Anastasiadis  
 "Polymer / Layered Silicate Nanocomposites: Structure and Dynamics"  
*20th International Symposium on Polymer Analysis and Characterization (ISPAC 2007)*, October 2007, Agios Nikolaos Crete, Greece
67. E. Pavlopoulou, K. Chrissopoulou, S. H. Anastasiadis, G. Portale, H. Iatrou, S. Pispas and N. Hadjichristidis  
 "The Influence of the Macromolecular Architecture on the Micellization in Block Copolymer / Homopolymer Blends"  
*II Workshop on Applications of Synchrotron Light to Non-crystalline Diffraction in Materials and Life Sciences*, October 2007, Madrid, Spain
68. K. Chrissopoulou, I. Altintzi, I. Andrianaki, N. Koufaki, S. Fotiadou and S. H. Anastasiadis  
 "On the Miscibility of Polymer / Layered Silicate Nanocomposites"  
*2008 American Physical Society March Meeting*, March 2008, New Orleans, U.S.A.  
 Bull. Amer. Phys. Soc. **53**, S18.00015 (2008).
69. S. H. Anastasiadis, K. Chrissopoulou, S. Fotiadou, K. Andrikopoulos, G. A. Kourouklis and B. Frick  
 "Effects of severe confinement on the structure and dynamics in polymer nanocomposites"  
*2008 American Physical Society March Meeting*, March 2008, New Orleans, U.S.A.  
 Bull. Amer. Phys. Soc. **53**, S18.00013 (2008).
70. E. Pavlopoulou, K. Chrissopoulou, S. H. Anastasiadis, G. Portale, W. Bras, H. Iatrou, S. Pispas and N. Hadjichristidis  
 "The influence of macromolecular architecture on the micellization in block copolymer/homopolymer blends"  
*2008 American Physical Society March Meeting*, March 2008, New Orleans, U.S.A.  
 Bull. Amer. Phys. Soc. **53**, H18.00012 (2008).
71. K. Chrissopoulou, S. H. Anastasiadis  
 "Structure and Dynamics in Polymer / Layered Silicate Nanocomposites"  
*The International Fine Particles Research Institute (IFPRI) Meeting*, June 2008, Hersonissos Crete, Greece
72. K. Chrissopoulou, and S. H. Anastasiadis  
 "Investigation of the Structure and Dynamics in Polymer Nanocomposites"

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<sup>#</sup> Based on this talk, Ms Pavlopoulou won the best oral presentation award

*2nd International Summer School on Nanosciences and Nanotechnologies*, July 2008, Thessaloniki, Greece

73. S. H. Anastasiadis, S. Fotiadou, K. Chrissopoulou, K. Andrikopoulos, D. Christofilos, G. A. Kourouklis and B. Frick  
"Effects of Severe Confinement on Structure and Dynamics in Polymer Nanocomposites"  
*The XVth International Congress on Rheology*, August 2008, Monterey, CA, U.S.A.  
American Inst. of Physics Proceedings (A. Co, L. G. Leal, R. H. Colby and A. J. Giacomin, Eds.), Vol. 1027, pp. 1303-1305 (2008)
74. E. Pavlopoulou, S. Fotiadou, G. Portale, W. Bras, K. Chrissopoulou and S.H. Anastasiadis  
"Crystallization kinetics in poly(ethylene oxide)/layered silicates nanocomposites"  
*XXIV Panhellenic Conference on Solid State Physics and Materials Science*, September 2008, Fodele Crete, Greece (Conference proceedings p. 33)
75. S. Fotiadou, D. Tragoudaras, I. Tanis, K. Chrissopoulou, K. Karatasos, B. Frick and S. H. Anastasiadis  
"Structure and dynamics of hyperbranched polymers: A comparison between experiment and simulation"  
*XXIV Panhellenic Conference on Solid State Physics and Materials Science*, September 2008, Fodele Crete, Greece (Conference proceedings p. 61)
76. F. K. Krasanakis, K. Chrissopoulou and M. Vamvakaki  
"Synthesis, Characterization and Properties of Polystyrene / Layered Silicate Nanocomposites"  
*XXIV Panhellenic Conference on Solid State Physics and Materials Science*, September 2008, Fodele Crete, Greece (Conference proceedings p. 141)
77. N. Koufaki, K. Chrissopoulou and S. H. Anastasiadis  
"On the miscibility in Polymer / Layered Silicate Nanocomposites"  
*XXIV Panhellenic Conference on Solid State Physics and Materials Science*, September 2008, Fodele Crete, Greece (Conference proceedings p. 137)
78. K. Chrissopoulou, E. Pavlopoulou, H. Papananou, S. Fotiadou, G. Portale, W. Bras, and S. H. Anastasiadis  
"Crystallization Behavior in Polymer / Layered Silicate Nanocomposites"  
*7th Panhellenic Polymer Conference*, September 2008, Ioannina, Greece (Conference proceedings p. 74)
79. S. Fotiadou, K. Chrissopoulou, B. Frick, and S. H. Anastasiadis  
"Organic–Inorganic Nanocomposites: A study of the structure and dynamics in confined geometry"  
*7th Panhellenic Polymer Conference*, September 2008, Ioannina, Greece (Conference proceedings p. 237)
80. E. Pavlopoulou, S. Fotiadou, E. Papananou, K. Chrissopoulou, S. H. Anastasiadis, G. Portale, and W. Bras  
"Crystallization kinetics in poly(ethylene oxide) / layered silicates nanocomposites"  
*2009 American Physical Society March Meeting*, March 2009, Pittsburgh, U.S.A.  
Bull. Amer. Phys. Soc. **54**, P19.00015 (2009)
81. K. Chrissopoulou, E. Pavlopoulou, H. Papananou, S. Fotiadou, G. Portale, W. Bras, and S. H. Anastasiadis

- "Crystallization in polymer / layered silicate nanohybrids"  
*7th Panhellenic Chemical Engineering Scientific Conference*, June 2009, Patras, Greece
82. K. Chrissopoulou,<sup>#</sup> E. Pavlopoulou, H. Papananou, S. Fotiadou, G. Portale, W. Bras and S. H. Anastasiadis  
 "Effect of Inorganic Additive on the Chain Crystallization in Polymer / Layered Silicate Nanohybrids"  
*XXV Panhellenic Conference on Solid State Physics and Materials Science*, September 2009, Thessaloniki, Greece
  83. E. Pavlopoulou, K. Chrissopoulou, S. H. Anastasiadis, H. Iatrou, N. Hadjichristidis, G. Portale, and W. Bras  
 "Concentration and Temperature Effects on the Micellization of Block Copolymers in a Homopolymer Matrix"  
*2010 American Physical Society March Meeting*, March 2010, Portland, U.S.A. Bull. Amer. Phys. Soc. **55**, A19.00008 (2010).
  84. K. Chrissopoulou, A. Afratis, S. Fotiadou, B. Frick, and S. H. Anastasiadis  
 "Confinement effects on the Structure and Dynamics in Intercalated Polymer / Layered Silicate Nanohybrids"  
 5th International Conference on Times of Polymers (TOP) and Composites, June 2010, Ischia, Italy.  
 American Institute of Physics Conference Proceedings 1255, p.78, Melville, New York, 2010
  85. K. Andrikopoulos, K. Chrissopoulou, S. Bollas, S. Fotiadou, G. Voyiatzis, and S. H. Anastasiadis  
 "On the Crystallinity and Chain Conformations in PEO / Layered Silicate Nanocomposites"  
 8th Hellenic Polymer Society Symposium, October 2010, Hersonissos Crete, Greece
  86. K. Chrissopoulou, H. Papananou, E. Pavlopoulou, G. Portale, W. Bras and S. H. Anastasiadis  
 "Crystallization Kinetics in Polymer / Layered Silicate Nanocomposites"  
 8th Hellenic Polymer Society Symposium, October 2010, Hersonissos Crete, Greece
  87. S. H. Anastasiadis, E. Pavlopoulou, K. Chrissopoulou, G. Portale, W. Bras, H. Iatrou, S. Pispas and N. Hadjichristidis  
 "Macromolecular Architecture Effects on the Micellization in Block Copolymer / Homopolymer Mixtures"  
 8th Hellenic Polymer Society Symposium, October 2010, Hersonissos Crete, Greece
  88. S. H. Anastasiadis, K. Chrissopoulou, S. Bollas, K. Andrikopoulos, S. Fotiadou, D. Christofilos, G.A. Voyiatzis  
 "On the Crystallinity and Chain Conformation in PEO / Layered Silicate Nanocomposites"  
*2011 American Physical Society March Meeting*, Μάρτιος 2011, Dallas, U.S.A.  
 Bull. Amer. Phys. Soc. **56**, L42.00007 (2011).
  89. K. Chrissopoulou, K. Andrikopoulos, S. Bollas, S. Fotiadou, G. Voyiatzis and S. H. Anastasiadis  
 "Polymer Morphology in Confinement and close to surfaces"

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<sup>#</sup> Based on this talk, Dr Chrissopoulou won the best oral presentation award

- 2<sup>nd</sup> Russian-Hellenic Symposium BIONANOTOX 2011*, May 2011, Heraklion Crete, Greece.
90. H. Papananou, E. Pavlopoulou, K. Chrissopoulou, G. Portale, W. Bras and S. H. Anastasiadis  
"Crystallization Kinetics in Polymer / Layered Silicate Nanocomposites"  
*2<sup>nd</sup> Russian-Hellenic Symposium BIONANOTOX 2011*, May 2011, Heraklion Crete, Greece.
  91. K. Chrissopoulou, S. Fotiadou, S. Bollas, S. H. Anastasiadis, K. Andrikopoulos and G. A. Voyiatzis.  
"On the Crystallinity and Chain Conformations in Polymer / Inorganic Nanocomposites"  
8th Panhellenic Chemical Engineering Scientific Conference, May 2011, Thessaloniki, Greece
  92. H. Papananou, S. Fotiadou, K. Chrissopoulou, and S. H. Anastasiadis.  
"Crystallinity and Crystallization Kinetics in Poly(ethylene oxide) / Layered Silicate Nanocomposites"  
*Conference and Training School on Multiphase Polymers and Polymer Composites: From Nanoscale to Macro Composites*, Ιούνιος 2011, Paris, France
  93. K. Chrissopoulou, K. Andrikopoulos, S. Bollas, S. Fotiadou, G. Voyiatzis, and S. H. Anastasiadis  
"Crystallinity and Chain Conformations in Polymer / Layered Silicate Nanohybrids"  
*European Polymer Congress 2011*, Ιούνιος 2011, Granada Spain.
  94. H. Papananou, E. Pavlopoulou, K. Chrissopoulou, G. Portale, W. Bras and S. H. Anastasiadis  
"Crystallization Kinetics in Polymer / Layered Silicate Nanocomposites"  
*3<sup>rd</sup> International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems (IC4N)*, June 2011, Crete, Greece
  95. K. Chrissopoulou, S. Bollas, S. Fotiadou, K. Andrikopoulos, G. Voyiatzis and S. H. Anastasiadis (**INVITED**)  
"Polymer Morphology in Confinement and Close to Surfaces"  
*8<sup>th</sup> International Conference on Nanosciences & Nanotechnologies-NN11*, July 2011, Thessaloniki, Greece
  96. S. Fotiadou, K. Chrissopoulou, B. Frick and S. H. Anastasiadis  
"Structure and Dynamics in Hyperbranched Nanohybrids"  
*8<sup>th</sup> International Conference on Nanosciences & Nanotechnologies-NN11*, July 2011, Thessaloniki, Greece
  97. A. Kiersnowski, G. Kircher, K. Chrissopoulou, J. Piękowski and S. H. Anastasiadis  
"Formation and phase behavior of PVDF/MMT-g-PMMA ternary nanocomposites"  
*Polymers for Advanced Technology Conference (PAT 2011)*, October 2011, Lodz, Poland
  98. K. Chrissopoulou, S. Bollas, S. Fotiadou, K. Andrikopoulos, G. A. Voyiatzis and S. H. Anastasiadis  
"Polymer Crystallinity and Chain Conformation in the Bulk and Close to Surfaces"  
*4<sup>th</sup> COINAPO (Composites of Inorganic Nanotubes and Polymers) meeting*, December 2011, Ljubljana, Slovenia.

99. K. Chrissopoulou, S. Fotiadou and S. H. Anastasiadis  
"Structure and dynamics in hyperbranched nanohybrids"  
*General Meeting 12, American Physical Society*, February 2012, Boston, MA, U.S.A.  
*Bull. Amer. Phys. Soc.* 57, J44.00010 (2012).
100. S. H. Anastasiadis, K. Chrissopoulou, S. Bollas, K. Andrikopoulos, S. Fotiadou, and G. A. Voyiatzis  
"Chain conformation and crystallization in PEO / layered silicate nanocomposites"  
*General Meeting 12, American Physical Society*, February 2012, Boston, MA, U.S.A.  
*Bull. Amer. Phys. Soc.* **57**, J49.00009 (2012).
101. A. Kiersnowski, M. Gazińska, K. Kolman, G. Kircher, M. Mezger, B. Hou, M. Paulus, K. Chrissopoulou, and S. H. Anastasiadis  
"An effect of surface properties and aspect ratio of organosmectites on crystallization and orientational structure of PVDF nanocomposites"  
*World Polymer Congress MACRO 2012, 44th IUPAC International Symposium on Macromolecules*, June 2012, Blacksburg, VA, U.S.A.
102. K. Chrissopoulou, H. Papananou and S. H. Anastasiadis  
"Crystallization Kinetics in Polymer / Layered Silicate Nanocomposites"  
*9th Workshop on Nanosciences and Nanotechnologies*, July 2012, Thessaloniki, Greece
103. K. Chrissopoulou, H. Papananou and S. H. Anastasiadis  
"Effect of Inorganic Surfaces on Polymer Crystallization Kinetics"  
*5th International Conference Micro & Nano 2012*, October 2012, Kokkini Hani, Heraklion Crete, Greece
104. H. Papananou, K. Chrissopoulou, P. Krassa and S. H. Anastasiadis  
"Synthesis and characterization of polymeric core-shell nanoparticles"  
*5th International Conference Micro & Nano 2012*, October 2012, Kokkini Hani, Heraklion Crete, Greece
105. K. Androulaki, K. Chrissopoulou, M. Labardi, D. Prevosto and S. H. Anastasiadis  
"Structure and dynamics in hyperbranched polymer / layered silicate nanocomposites"  
*5th International Conference Micro & Nano 2012*, October 2012, Kokkini Hani, Heraklion Crete, Greece
106. S. Bollas, K. Chrissopoulou, K. S. Andrikopoulos, S. Fotiadou, G. A. Voyiatzis and S. H. Anastasiadis  
"On the Crystallinity and Chain Conformation in PEO / Layered Silicate Nanocomposites"  
*5th International Conference Micro & Nano 2012*, October 2012, Kokkini Hani, Heraklion Crete, Greece
107. K. Androulaki, K. Chrissopoulou, M. Labardi, D. Prevosto and S. H. Anastasiadis  
"Hyperbranched Polymer Nanohybrids: Structure and Dynamics"  
*9th Panhellenic Polymer Conference on Polymer Science and Technology*, November 2012, Thessaloniki, Greece
108. H. Papananou, K. Chrissopoulou and S. H. Anastasiadis  
"Crystallization Behavior of PEO/Layered Silicate and PEO/Silica Nanocomposites"  
*9th Panhellenic Polymer Conference on Polymer Science and Technology*, November 2012, Thessaloniki, Greece
109. H. Papananou, K. Chrissopoulou, A. Kostakou, P. Krassa and S. H. Anastasiadis



- "Synthesis and Characterization of Polymeric Core-Shell Nanoparticles for Environmentally Friendly Coating Applications"  
*9<sup>th</sup> Panhellenic Polymer Conference on Polymer Science and Technology*, November 2012, Thessaloniki, Greece
110. K. Chrissopoulou, S. Fotiadou, I. Tanis, D. Tragoudaras, K. Karatasos, B. Frick and S. H. Anastasiadis  
"Dynamics of Hyperbranched Polymers in the Bulk and under Confinement"  
*9<sup>th</sup> Panhellenic Polymer Conference on Polymer Science and Technology*, November 2012, Thessaloniki, Greece
111. S. H. Anastasiadis, K. Chrissopoulou, K. Karatasos, S. Fotiadou, C. Karageorgaki, I. Tanis, D. Tragoudaras, and B. Frick  
"Structure and dynamics of hyperbranched polymers in bulk and under nanoscopic confinement"  
*General Meeting 13, American Physical Society*, March 2013, Baltimore, MD, U.S.A.  
*Bull. Amer. Phys. Soc.* **58**, J31.00005 (2013).
112. K. Androulaki, K. Chrissopoulou, M. Labardi, D. Prevosto and S. H. Anastasiadis  
"Structure and Dynamics of Hyperbranched Polymers / Layered Silicate Nanocomposites"  
*European Polymer Congress 2013, European Polymer Federation*, June 2013, Pisa, Italy
113. K. Chrissopoulou, S. Fotiadou, I. Tanis, K. Karatasos, B. Frick and S. H. Anastasiadis  
"Dynamics of Dendritic Polymers in the Bulk and under Confinement"  
*European Polymer Congress 2013, European Polymer Federation*, June 2013, Pisa, Italy
114. K. Chrissopoulou, K. Androulaki, D. Prevosto, M. Labardi and S. H. Anastasiadis  
"Dynamics of hyperbranched polymers in the bulk and under confinement"  
*10<sup>th</sup> Workshop on Nanosciences and Nanotechnologies*, July 2013, Thessaloniki, Greece
115. H. Papananou, K. Chrissopoulou, D. Prevosto, M. Labardi and S. H. Anastasiadis  
"Dynamics of Poly(ethylene oxide) in the bulk and in close proximity to silica nanoparticle surfaces"  
"Nanoparticle-polymer composites" *Topical Meeting 2013*, Final meeting of COST Action MP0902, October 2013, Heraklion Crete, Greece
116. K. Androulaki, K. Chrissopoulou, D. Prevosto, M. Labardi and S. H. Anastasiadis  
"Effect of polymer / clay interactions on the dynamics of hyperbranched polymers; functional group dependence"  
"Nanoparticle-polymer composites" *Topical Meeting 2013*, Final meeting of COST Action MP0902, October 2013, Heraklion Crete, Greece
117. K. Chrissopoulou and S. H. Anastasiadis  
"Structure and Dynamics of Polymer / Layered Silicate Nanocomposites"  
*IX International Conference on X-Ray Investigations of Polymer Structure, XIPS 2013*, December 2013, Zakopane, Poland
118. K. Chrissopoulou, K. Androulaki, D. Prevosto, M. Labardi and S. H. Anastasiadis  
"Dynamics of Hyperbranched Polymers in the Bulk and under Confinement: Effect of Dendritic Generation"  
*General Meeting 14, American Physical Society*, March 2014, Denver, CO, U.S.A.  
*Bull. Amer. Phys. Soc.* **59**, W22.00004 (2014).

119. K. Chrissopoulou, S. Fotiadou, K. Androulaki, I. Tanis, K. Karatasos, D. Prevosto, M. Labardi, B. Frick and S. H. Anastasiadis  
"Dynamics of Hyperbranched Polymers in the Bulk and Under Confinement"  
*QENS/WINS 2014*, May 2014, Autrans, France
120. K. Chrissopoulou, H. Papananou and S. H. Anastasiadis  
"Polymer Structure and Dynamics in the Proximity of Different Inorganic Nanoadditives"  
*E-MRS 2014 Spring Meeting*, May 2014, Lille, France
121. K. Chrissopoulou, S. Fotiadou, K. Androulaki, I. Tanis, K. Karatasos, D. Prevosto, M. Labardi, B. Frick and S. H. Anastasiadis  
"Dynamics of Dendritic Polymers in the Bulk and Under Confinement"  
*7th International Conference on Times of Polymers (TOP) and Composites*, June 2014, Ischia, Italy
122. K. Chrissopoulou, H. Papananou and S. H. Anastasiadis  
"Influence of different additives on Polymer Morphology and Dynamics"  
*11<sup>th</sup> Workshop on Nanosciences and Nanotechnologies*, July 2014, Thessaloniki, Greece
123. V. S. Petrakis, A. N. Rissanou, V. Harmandaris, K. Chrisopoulou and S. H. Anastasiadis  
"Atomistic Molecular Dynamics simulation study of a hybrid Poly (ethylene oxide) / Silica nanoparticle system"  
*XXX Panhellenic Conference on Solid State Physics and Materials Science*, September 2014, Heraklion Crete, Greece
124. K. Androulaki, K. Chrissopoulou, S. H. Anastasiadis, M. Labardi and D. Prevosto  
"Dynamics of Hyperbranched polymers in the bulk and close to surfaces"  
*XXX Panhellenic Conference on Solid State Physics and Materials Science*, September 2014, Heraklion Crete, Greece
125. H. Papananou, K. Chrissopoulou, S. H. Anastasiadis, K. S. Andrikopoulos, G. A. Voyiatzis, A. Avgeropoulos, M. Labardi and D. Prevosto  
"PEO crystallization and dynamics close to SiO<sub>2</sub> surfaces"  
*XXX Panhellenic Conference on Solid State Physics and Materials Science*, September 2014, Heraklion Crete, Greece
126. N. Vasilakis, K. C. Vasilopoulos, L. Syggelou, K. Chrissopoulou and S. H. Anastasiadis  
"Influencing the interactions on poly(ethylene oxide) / graphite oxide nanocomposites"  
*XXX Panhellenic Conference on Solid State Physics and Materials Science*, September 2014, Heraklion Crete, Greece
127. K. Chrissopoulou and S. H. Anastasiadis  
"Polymer Dynamics Under Confinement"  
*10<sup>th</sup> Panhellenic Polymer Conference on Polymer Science and Technology*, December 2014, Patras, Greece
128. H. Papananou, K. Chrissopoulou, S. H. Anastasiadis, K. S. Andrikopoulos, G. A. Voyiatzis and A. Avgeropoulos

- "PEO /silica nanocomposites: effect of confinement on polymer crystallization and chain conformation"  
*10<sup>th</sup> Panhellenic Polymer Conference on Polymer Science and Technology*, December 2014, Patras, Greece
129. K. Androulaki, K. Chrissopoulou, D. Prevosto, M. Labardi and S. H. Anastasiadis  
"Structure and Dynamics of Hyperbranched Polymers and Nanohybrids"  
*10<sup>th</sup> Panhellenic Polymer Conference on Polymer Science and Technology*, December 2014, Patras, Greece
130. V. S. Petrakis, A.N. Rissanou, V. Harmandaris, K. Chrissopoulou and S. H. Anastasiadis  
"Atomistic molecular dynamics simulation study of a hybrid poly (ethylene oxide) / silica nanoparticle system"  
*10<sup>th</sup> Panhellenic Polymer Conference on Polymer Science and Technology*, December 2014, Patras, Greece
131. S. Bollas, K. Chrissopoulou, K. S. Andrikopoulos, G. A. Voyiatzis, A. Avgeropoulos and S. H. Anastasiadis  
"Crystallinity and Chain Conformation in PEO/Na<sup>+</sup>-MMT nanohybrids: Effect of polymer architecture"  
*10<sup>th</sup> Panhellenic Polymer Conference on Polymer Science and Technology*, December 2014, Patras, Greece
132. N. Vasilakis, K. C. Vasilopoulos, L. Syggelou, K. Chrissopoulou and S. H. Anastasiadis  
"Poly(ethylene-oxide) / graphite oxide nanocomposites: Effect of the degree of oxidation"  
*10<sup>th</sup> Panhellenic Polymer Conference on Polymer Science and Technology*, December 2014, Patras, Greece
133. K. Chrissopoulou, H. Papananou, S. H. Anastasiadis, K. S. Andrikopoulos and G. A. Voyiatzis  
"Polymer morphology and crystallinity close to inorganic surfaces"  
*General Meeting 15, American Physical Society*, March 2015, San Antonio, TX, U.S.A.  
Bull. Amer. Phys. Soc. **60**, XXX.0000X (2015).
134. K. Androulaki, K. Chrissopoulou, S. H. Anastasiadis, D. Prevosto and M. Labardi  
"Dynamics of hyperbranched polymers under confinement"  
*General Meeting 15, American Physical Society*, March 2015, San Antonio, TX, U.S.A.  
Bull. Amer. Phys. Soc. **60**, XXX.0000X (2015).
135. D. Prevosto, M. Labardi, J. Barsotti, K. Androulaki, K. Chrissopoulou and S. H. Anastasiadis  
"Hyperbranched polymer under confinement: an insight by conventional and spatially resolved dielectric investigation"  
*XIV International Workshop on Complex Systems*, March 2015, Fai della Paganella, Trento, Italy
137. S. Bollas, K. Chrissopoulou, K. S. Andrikopoulos, G. A. Voyiatzis, A. Avgeropoulos and S. H. Anastasiadis  
"Nanohybrids of PEO stars and Na<sup>+</sup>-MMT: Crystallinity and Chain Conformation"

- COST Action HINT Annual Meeting: Nanostructured Hybrid Materials II: reinforced 3D structures, smart composites, self-healing*, April 2015, Heraklion Crete, Greece
138. H. Papananou, K. Chrissopoulou, K. S. Andrikopoulos, G. A. Voyiatzis, and S. H. Anastasiadis  
"Effect of inorganic filler on poly(ethylene oxide) crystallization "  
*COST Action HINT Annual Meeting: Nanostructured Hybrid Materials II: reinforced 3D structures, smart composites, self-healing*, April 2015, Heraklion Crete, Greece
139. K. Androulaki, K. Chrissopoulou and S. H. Anastasiadis  
"Hyperbranched Polymer Nanohybrids"  
*COST Action HINT Annual Meeting: Nanostructured Hybrid Materials II: reinforced 3D structures, smart composites, self-healing*, April 2015, Heraklion Crete, Greece
140. N. Vasilakis, K. Chrissopoulou and S. H. Anastasiadis  
"Poly(ethylene oxide) / Graphite Oxide Nanocomposites"  
*COST Action HINT Annual Meeting: Nanostructured Hybrid Materials II: reinforced 3D structures, smart composites, self-healing*, April 2015, Heraklion Crete, Greece
141. V. S. Petrakis, A. J. Power, A. N. Rissanou, V. Harmandaris, K. Chrissopoulou and S. H. Anastasiadis  
"Atomistic Molecular Dynamics Simulations on Hybrid Nanocomposite Systems with Inorganic Compounds in Polymeric Matrix"  
*COST Action HINT Annual Meeting: Nanostructured Hybrid Materials II: reinforced 3D structures, smart composites, self-healing*, April 2015, Heraklion Crete, Greece
142. D. Prevosto, M. Labardi, J. Barsotti, K. Androulaki, K. Chrissopoulou and S. H. Anastasiadis  
"Hyperbranched polymer nanocomposites: a dielectric investigation in the nanoscale"  
*COST Action HINT Annual Meeting: Nanostructured Hybrid Materials II: reinforced 3D structures, smart composites, self-healing*, April 2015, Heraklion Crete, Greece
143. S. H. Anastasiadis, K. Androulaki, K. Chrissopoulou, D. Prevosto and M. Labardi  
"Dynamics of Hyperbranched Polymers under Confinement"  
*Eurofillers Polymer Blends 2015*, April 2015, Montpellier, France
144. K. Chrissopoulou, H. Papananou K. Androulaki and S. H. Anastasiadis  
"Polymer structure and dynamics under confinement"  
*10<sup>th</sup> Panhellenic Chemical Engineering Scientific Conference*, June 2015, Patras, Greece
145. K. Chrissopoulou, H. Papananou, K. S. Andrikopoulos, G. A. Voyiatzis, D. Prevosto, M. Labardi and S. H. Anastasiadis  
"Polymer Structure and Dynamics Close to Inorganic Surfaces"  
*European Polymer Congress 2015, European Polymer Federation*, June 2015, Dresden, Germany
146. H. Papananou, K. Chrissopoulou, K. S. Andrikopoulos, G. A. Voyiatzis and S. H. Anastasiadis  
"PEO crystallization and chain conformation close to SiO<sub>2</sub> surfaces"  
*International Workshop on Structure and Dynamics of Polymer Nanocomposites*, June 2015, Montpellier, France
147. K. Chrissopoulou, H Papananou, K. S. Andrikopoulos, G. A. Voyiatzis, D. Prevosto, M. Labardi and S. H. Anastasiadis

- "Effect of SiO<sub>2</sub> Nanoparticles on the Morphology and Dynamics of Poly(ethylene oxide) Polymer Chains"  
*12<sup>th</sup> Workshop on Nanosciences and Nanotechnologies*, July 2015, Thessaloniki, Greece
148. H. Papananou, K. Chrissopoulou, K. S. Andrikopoulos, G. A. Voyiatzis and S. H. Anastasiadis  
"Poly(ethylene oxide) / SiO<sub>2</sub> Nanocomposites"  
*QualityNano Final Conference: Meeting on Current Status and Future Plans in NanoSafety Research and Implementation*, July 2015, Heraklion Crete, Greece
149. K. Chrissopoulou and S. H. Anastasiadis  
"Development of Functional Polymer Materials and Materials Surfaces"  
*22<sup>nd</sup> ELGRA Symposium and General Assembly*, September 2015, Corfu, Greece
150. K. Chrissopoulou, E. Perivolari, H. Papananou and S. H. Anastasiadis  
"Confinement Effect of Polymer Morphology and Properties"  
*"HINT General Scientific Workshop and Review Meeting"* COST Action MP1202, October 2015, Milan, Italy
151. K. Androulaki, K. Chrissopoulou, M. Labardi, D. Prevosto and S. H. Anastasiadis  
"Polymer Dynamics in Nanohybrids"  
*"HINT General Scientific Workshop and Review Meeting"* COST Action MP1202, October 2015, Milan, Italy
152. S. H. Anastasiadis, K. Chrissopoulou, E. Perivolari and H. Papananou  
"Confinement Effects on Polymer Morphology and Properties"  
*General Meeting 16, American Physical Society*, March 2016, Baltimore, MD, U.S.A. Bull. Amer. Phys. Soc. **61**, C34.00005 (2016)
153. K. Chrissopoulou, S. Fotiadou, K. Androulaki, K. Karatasos, B. Frick, M. Labardi, D. Prevosto and S. H. Anastasiadis  
"Structure and Dynamics in Hybrane / Na<sup>+</sup>-MMT Nanohybrids"  
*HINT Annual Meeting on Nanostructured materials: Protective and Functional coatings, surface treatment, bioceramics biocomposites and membranes*, COST Action MP1202, March 2016, Vilnius, Lithuania
154. K. Chrissopoulou, S. H. Anastasiadis  
"Polymer Nanocomposites Structure and Dynamics"  
*International Workshop in Advances in Polymer Technologies*, May 2016, Vathi Evias, Greece
155. K. Chrissopoulou, K. Androulaki, D. Prevosto, M. Labardi and S. H. Anastasiadis  
"Effect of Confinement and Molecular Architecture on Interfacial Dynamics"  
*8th International Conference on Times of Polymers (TOP) and Composites*, June 2016, Ischia, Italy
156. K. Chrissopoulou, H. Papananou, E. Perivolari and S. H. Anastasiadis  
"Tuning Polymer Crystallinity"  
*16th International Conference "Polymers and Organic Chemistry" (POC-16)*, June 2016, Heraklion Crete, Greece
157. K. Androulaki, K. Chrissopoulou, M. Labardi, D. Prevosto and S. H. Anastasiadis  
"Polymer Structure and Dynamics in the Bulk and under Confinement"

- 16th International Conference "Polymers and Organic Chemistry" (POC-16), June 2016, Heraklion Crete, Greece*
158. H. Papananou, E. Perivolari, K. Chrissopoulou and S. H. Anastasiadis  
"Tuning the crystallinity of Poly(ethylene oxide) in PEO-SiO<sub>2</sub> nanocomposites"  
*12th National Graduate Research Polymer Conference, June 2016, Akron, OH, USA*
159. K. Chrissopoulou, E. Perivolari, H. Papananou, and S. H. Anastasiadis  
"Tuning Polymer Crystallinity in PEO / SiO<sub>2</sub> Nanohybrids"  
*13<sup>th</sup> International Conference on Nanosciences & Nanotechnologies (NN16), July 2016, Thessaloniki, Greece*
160. K. Chrissopoulou and S. H. Anastasiadis  
"Crystallization in polymer nanocomposites"  
*FORTH-BGU workshop on polymers, colloids, gels, bio-and-synthetic nanostructures, September 2016, Heraklion Crete, Greece*
161. K. Chrissopoulou, H. Papananou, E. Perivolari and S. H. Anastasiadis  
"Tuning Polymer Crystallinity"  
*COST CA15107 (MultiComp) Annual Meeting on Multi-Functional Nano-Carbon Composite Materials, October 2016, Heraklion Crete, Greece*
162. K. Chrissopoulou and S. H. Anastasiadis  
"Confinement Effects on Polymer Structure and Dynamics: The Case of Polymer Nanocomposites"  
*COST CA15107 (MultiComp) Annual Meeting on Multi-Functional Nano-Carbon Composite Materials, October 2016, Heraklion Crete, Greece*
163. S. Leisch, H. Papananou, K. Chrissopoulou and S. H. Anastasiadis  
"PEO crystallization kinetics close to SiO<sub>2</sub> surfaces"  
*COST CA15107 (MultiComp) Annual Meeting on Multi-Functional Nano-Carbon Composite Materials, October 2016, Heraklion Crete, Greece*
164. K. Androulaki, K. Chrissopoulou, S. H. Anastasiadis, D. Prevosto and M. Labardi  
"Structure and dynamics in polyester based nanohybrids"  
*COST CA15107 (MultiComp) Annual Meeting on Multi-Functional Nano-Carbon Composite Materials, October 2016, Heraklion Crete, Greece*
165. K. Chrissopoulou and S. H. Anastasiadis (**INVITED**)  
"Tuning Polymer Crystallinity"  
*2<sup>nd</sup> Israel-Greece Joint Meeting on Nanotechnology and BioNanoScience, October 2016, Heraklion Crete, Greece*
166. S. Leisch, H. Papananou, K. Chrissopoulou and S. H. Anastasiadis  
"Crystallization kinetics in PEO/SiO<sub>2</sub> nanocomposites"  
*2<sup>nd</sup> Israel-Greece Joint Meeting on Nanotechnology and BioNanoscience, October 2016, Heraklion Crete, Greece*
167. K. Androulaki, K. Chrissopoulou, D. Prevosto, M. Labardi and S. H. Anastasiadis  
"Polymer dynamics in the bulk and under confinement"  
*2<sup>nd</sup> Israel-Greece Joint Meeting on Nanotechnology and BioNanoscience, October 2016, Heraklion Crete, Greece*

168. S. Bollas, K. Chrissopoulou, K. Androulaki, A. Avgeropoulos, and S. H. Anastasiadis  
 "Dynamics and Crystallization of PEO / Na<sup>+</sup>-MMT: Effect of Polymer Architecture"  
*11<sup>th</sup> Hellenic Polymer Society International Conference*, November 2016, Heraklion  
 Crete, Greece
169. K. Androulaki, K. Chrissopoulou, D. Prevosto, M. Labardi and S. H. Anastasiadis  
 "Structure and Dynamics of Polyesters in the Bulk and in Nanohybrids"  
*11<sup>th</sup> Hellenic Polymer Society International Conference*, November 2016, Heraklion  
 Crete, Greece
170. E. Perivolari, H. Papananou, K. Chrissopoulou and S. H. Anastasiadis<sup>#</sup>  
 "Tuning the crystallinity of Poly(ethylene oxide) in PEO-SiO<sub>2</sub> nanocomposites"  
*11<sup>th</sup> Hellenic Polymer Society International Conference*, November 2016, Heraklion  
 Crete, Greece
171. H. Papananou, S. Leisch, K. Chrissopoulou, and S. H. Anastasiadis  
 "Crystallization Kinetics in Polymer/Silica Nanoparticles Nanocomposites"  
*11<sup>th</sup> Hellenic Polymer Society International Conference*, November 2016, Heraklion  
 Crete, Greece
172. H. Papananou, V. S. Petrakis, A. N. Rissanou, V. Harmandaris, K. Chrissopoulou, S.  
 H. Anastasiadis  
 "Structural and Conformational Properties of Poly-(ethylene oxide)/Silica  
 Nanocomposites through Simulations and Experiments"  
*11<sup>th</sup> Hellenic Polymer Society International Conference*, November 2016, Heraklion  
 Crete, Greece
172. A. Anagnostakis, K. Velonia, K. Chrissopoulou and S. H. Anastasiadis  
 "DLS study on the first steps of the formation of giant amphiphiles"  
*11<sup>th</sup> Hellenic Polymer Society International Conference*, November 2016, Heraklion  
 Crete, Greece
173. C. Mantzaridis, K. Krassa, K. Chrissopoulou, and S. H. Anastasiadis  
 "Bio-based polyurethane coatings for the wood industry"  
*11<sup>th</sup> Hellenic Polymer Society International Conference*, November 2016, Heraklion  
 Crete, Greece
174. K. Chrissopoulou and S. H. Anastasiadis  
 "Confinement Effects on Polymer Structure and Dynamics: The Case of Polymer  
 Nanocomposites"  
*KAUST Research Conference 2017 "Polymers – Designing Macromolecules for  
 Applications"*, February 2017, Thuwal, Saudi Arabia
175. K. Chrissopoulou, E. Perivolari, S. Leisch, H. Papananou, and S. H. Anastasiadis  
 "Crystallization in Polymer Nanocomposites"  
*General Meeting 17, American Physical Society*, March 2017, New Orleans, LA  
 U.S.A.
176. K. Androulaki, K. Chrissopoulou, M. Labardi, D. Prevosto and S. H. Anastasiadis  
 "Structure and dynamics of biobased polyesters in the bulk and under confinement"  
*Eurofillers – Polymer Blends 2017*, April 2017, Hersonissos Crete, Greece
177. H. Papananou, E. Perivolari, K. Chrissopoulou and S. H. Anastasiadis  
 "PEO-SiO<sub>2</sub> nanocomposites: Tuning of Crystallinity"  
*Eurofillers – Polymer Blends 2017*, April 2017, Hersonissos Crete, Greece

178. H. Papananou, S. Leisch, K. Chrissopoulou, and S. H. Anastasiadis  
"Crystallization kinetics in PEO-SiO<sub>2</sub> nanocomposites"  
*Eurofillers – Polymer Blends 2017*, April 2017, Hersonissos Crete, Greece
179. K. Androulaki, K. Chrissopoulou, M. Labardi, D. Prevosto and S. H. Anastasiadis  
"Polymer Structure and Dynamics Under Severe Confinement"  
*11<sup>th</sup> Panhellenic Chemical Engineering Scientific Conference*, May 2017, Thessaloniki, Greece
180. K. Chrissopoulou, K. Androulaki, D. Prevosto, M. Labardi and S. H. Anastasiadis  
"Effect of Architecture on Polyester Dynamics in the Bulk and under Confinement"  
*16<sup>th</sup> EPF European Polymer Congress*, July 2017, Lyon, France
181. S. H. Anastasiadis, H. Papananou, E. Perivolari and K. Chrissopoulou  
"Tuning Polymer Crystallinity in Polymer Nanocomposites"  
*General Meeting 18, American Physical Society*, March 2018, Los Angeles, CA, U.S.A.  
Bull. Amer. Phys. Soc. **63**, B52.00009 (2018).
182. K. Chrissopoulou, H. Papananou, S. H. Anastasiadis, A. Rissanou, V. Harmandaris, K. Andrikopoulos and G. Voyiatzis  
"Effect of SiO<sub>2</sub> Nanoparticles on the Conformations of Poly(ethylene oxide) Polymer Chains"  
*General Meeting 18, American Physical Society*, March 2018, Los Angeles, CA, U.S.A.  
Bull. Amer. Phys. Soc. **63**, X43.00003 (2018).
183. K. Chrissopoulou, H. Papananou, E. Perivolari and S. H. Anastasiadis  
"Tuning Polymer Crystallinity"  
*18<sup>th</sup> European Conference on Composite Materials*, June 2018, Athens, Greece
184. K. Chrissopoulou, H. Papananou, E. Perivolari, S. H. Anastasiadis  
"Tuning Polymer Crystallinity: The case of Polymer Nanocomposites"  
*XXXIII Panhellenic Conference on Solid State Physics and Materials Science*, September 2018, Nicosia, Cyprus
185. K. Chrissopoulou, H. Papananou, E. Perivolari and S. H. Anastasiadis  
"Tuning Polymer Crystallinity"  
*12<sup>th</sup> Hellenic Polymer Society International Conference*, September 2018, Ioannina, Greece
186. K. Chrissopoulou, H. Papananou, A. N. Rissanou, V. Harmandaris, K. S. Andrikopoulos, G. A. Voyiatzis and S. H. Anastasiadis  
"Effect of Confinement on Chain conformations"  
*12<sup>th</sup> Hellenic Polymer Society International Conference*, September 2018, Ioannina, Greece
187. K. Androulaki, K. Chrissopoulou, M. Labardi and S. H. Anastasiadis  
"Structure and Dynamics in Bio-Based Polymer Nanocomposites"  
*12<sup>th</sup> Hellenic Polymer Society International Conference*, September 2018, Ioannina, Greece



188. K. Chrissopoulou (**INVITED**)  
"Structure and Dynamics in Bio-Based Polyesters in the Bulk and Under Confinement"  
*International Conference EcoBalt 2018*, October 2018, Vilnius, Lithuania
189. K. Chrissopoulou, K. Androulaki, S. H. Anastasiadis, M. Labardi  
"Structure and Dynamics of Bio-Based Polymers in the Bulk and under Confinement"  
*General Meeting 19, American Physical Society*, March 2019, Boston, MA, U.S.A.  
Bull. Amer. Phys. Soc. 64, K54.00010 (2019).
190. K. Androulaki, K. Chrissopoulou, M. Labardi and S. H. Anastasiadis  
"Biobased polyesters in the bulk and under confinement"  
*European Polymer Congress, EPF2019*, June 2019, Heraklion Crete, Greece
191. K. Androulaki, K. Chrissopoulou, M. Labardi and S. H. Anastasiadis  
"Structure and Dynamics in Hyperbranched Polyester / GO nanocomposites"  
*European Polymer Congress, EPF2019*, June 2019, Heraklion Crete, Greece
192. H. Papananou, E. Perivolari, K. Chrissopoulou and S. H. Anastasiadis  
"Tuning the crystallinity of Poly (ethylene oxide) in PEO-SiO<sub>2</sub> nanocomposites"  
*European Polymer Congress, EPF2019*, June 2019, Heraklion Crete, Greece
193. S. G. Kogchylakis, K. Chrissopoulou and S. H. Anastasiadis  
"Rheological Properties of PEO based Nanocomposites with different SiO<sub>2</sub> Nanoparticles"  
*European Polymer Congress, EPF2019*, June 2019, Heraklion Crete, Greece
194. A. N. Rissanou, K. Chrissopoulou, H. Papananou, V. S. Petrakis, V. Harmandaris, K. S. Andrikopoulos, G. A. Voyiatzis and S. H. Anastasiadis  
"Properties of poly(ethylene oxide)-silica Nanocomposites"  
*European Polymer Congress, EPF2019*, June 2019, Heraklion Crete, Greece
195. K. Chrissopoulou, H. Papananou, and S. H. Anastasiadis (**INVITED**)  
"Polymer Morphology and Chain Conformations in PEO nanocomposites"  
*16<sup>th</sup> International Conference on Nanosciences & Nanotechnologies (NN19)*, July 2019, Thessaloniki, Greece
196. K. Chrissopoulou, H. Papananou, S. Kogchylakis, and S. H. Anastasiadis  
"PEO /SiO<sub>2</sub> nanocomposites: Structure and Properties"  
*XXXIV Panhellenic Conference on Solid State Physics and Materials Science*, Σεπτέμβριος 2019, Πάτρα, Ελλάδα
197. K. Chrissopoulou, S. Kogchylakis and S. H. Anastasiadis  
"PEO / SiO<sub>2</sub> nanocomposites: Correlating Polymer Morphology to Rheological Properties"  
*General Meeting 20, American Physical Society*, March 2020, Denver, CO, U.S.A.  
(conference cancelled due to COVID-19)  
Bull. Amer. Phys. Soc. **65**, A33.00004 (2020).
198. S. H. Anastasiadis, F. Krasanakis, A. Theodorakis and K. Chrissopoulou  
"Utilizing Inorganic Nanoadditives to Influence the Surface Properties of Polymer Films"  
*General Meeting 20, American Physical Society*, March 2020, Denver, CO, U.S.A.  
(conference cancelled due to COVID-19)  
Bull. Amer. Phys. Soc. **65**, U33.00002 (2020).

199. K. Chrissopoulou, S. Kogchylakis and S. H. Anastasiadis  
"Correlating Polymer Morphology to Rheological Properties in PEO / SiO<sub>2</sub> nanocomposites"  
*General Meeting 21, American Physical Society*, March 2021, Online Conference, U.S.A.
200. F. Krasanakis, I. Karnis, A Rissanou, K. Karatasos and K. Chrissopoulou  
"Polymer/Graphene oxide nanocomposites: Effect of the interfacial interactions on the structure and properties"  
*General Meeting 21, American Physical Society*, March 2021, Online Conference, U.S.A.
201. S. H. Anastasiadis, F. Krasanakis, T. M. Chatzaki, A. Theodorakis and K. Chrissopoulou  
"Modifying the surface properties of polymer films by utilizing polymer/inorganic nanocomposites"  
*General Meeting 21, American Physical Society*, March 2021, Online Conference, U.S.A.
202. K. Chrissopoulou, F. Krasanakis, Th.-M. Chatzaki and S. H. Anastasiadis  
"Altering the Wetting Behavior of Polymer Surfaces Utilizing Polymer Nanocomposites"  
*18<sup>th</sup> International Conference on Nanosciences & Nanotechnologies (NN21)*, July 2021, Thessaloniki, Greece
203. I. Karnis, F. Krasanakis, A. N. Rissanou, K. Karatasos and K. Chrissopoulou  
"Effect of interfacial interactions on the structure and properties of polymer / graphene oxide nanocomposites"  
*ACS Fall 2021 National Meeting & Exposition*, August 2021, Atlanta GA, U.S.A. & online
204. K. Chrissopoulou, S. Kogchylakis and S. H. Anastasiadis  
"Rheological properties of PEO / SiO<sub>2</sub> nanocomposites"  
*ACS Fall 2021 National Meeting & Exposition*, August 2021, Atlanta GA, U.S.A. & online
205. F. Krasanakis, Th.-M. Chatzaki, A. Theodorakis, K. Chrissopoulou, and S. H. Anastasiadis  
"Modifying the wettability of polymer films by utilizing polymer/inorganic nanocomposites as coatings"  
*ACS Fall 2021 National Meeting & Exposition*, August 2021, Atlanta GA, U.S.A. & online
206. K. Chrissopoulou, F. Krasanakis, Th-M. Chatzaki and S. H. Anastasiadis  
"Development of Superhydrophobic Flexible Surfaces Utilizing Polymer Nanocomposite Coatings"  
*35<sup>th</sup> Conference of the European Colloid & Interface Society*, September 2021, Athens, Greece
207. I. Karnis, F. Krasanakis, A. N. Rissanou, K. Karatasos and K. Chrissopoulou  
"Development of Polymer/Graphene oxide nanohybrids with varying interfacial interactions"

35<sup>th</sup> Conference of the European Colloid & Interface Society, September 2021, Athens, Greece

208. K. Chrissopoulou (INVITED)  
"Polymer Nanocomposites: From Structure to Dynamics and Properties"  
*13<sup>th</sup> Hellenic Polymer Society International Conference*, December 2021, Athens, Greece
209. F. Krasanakis, Th. M. Chatzaki, K. Chrissopoulou, Spiros H. Anastasiadis  
"Development of Superhydrophobic and Water Repellent Polymer Coatings"  
*13<sup>th</sup> Hellenic Polymer Society International Conference*, December 2021, Athens, Greece
210. F. Gojda, K. Chrissopoulou, S. H. Anastasiadis, L. Papoutsakis, M. Loulakis, S. Tzortzakis  
"Development of Functional Materials Surfaces"  
*13<sup>th</sup> Hellenic Polymer Society International Conference*, December 2021, Athens, Greece
211. E. Giannakaki, I. Karamitrou, M. M. Stylianakis, A. Fidelli, P. Krassa, K. Chrissopoulou and S. H. Anastasiadis  
"Impact of Inorganic Nanoadditives on the Properties of Polyurethane Dispersions"  
*13<sup>th</sup> Hellenic Polymer Society International Conference*, December 2021, Athens, Greece
212. A. Theodorakis, E. Giannakaki, M. M. Stylianakis, A. Fidelli, P. Krassa, K. Chrissopoulou and S. H. Anastasiadis  
"Characterization and Self-Healing Properties of PUDs Incorporating GO and Hydrophilic Clays"  
*13<sup>th</sup> Hellenic Polymer Society International Conference*, December 2021, Athens, Greece
213. Th. M. Chatzaki, F. Krasanakis, K. Chrissopoulou and S. H. Anastasiadis  
"Altering the Surface Properties of Flexible Substrates by Utilizing Nanostructured Coatings"  
*13<sup>th</sup> Hellenic Polymer Society International Conference*, December 2021, Athens, Greece
214. G. Markozanne, A. Theodorakis, K. Chrissopoulou and S. H. Anastasiadis  
"Polymer Crystallization in the Presence of Inorganic Nanoparticles"  
*13<sup>th</sup> Hellenic Polymer Society International Conference*, December 2021, Athens, Greece
215. I. Karnis, F. Krasanakis, A. N. Rissanou, K. Karatasos and K. Chrissopoulou  
"Hyperbranched polymers / Graphene oxide Nanocomposites: effect of GO degree of oxidation"  
*13<sup>th</sup> Hellenic Polymer Society International Conference*, December 2021, Athens, Greece
216. A. Rissanou, I. Karnis, F. Krasanakis, K. Chrissopoulou and K. Karatasos  
"Controlling the separation of Graphene Oxide sheets in aqueous polymer nanocomposite systems"  
*13<sup>th</sup> Hellenic Polymer Society International Conference*, December 2021, Athens, Greece

## INVITED LECTURES IN UNIVERSITIES AND RESEARCH CENTERS

1. K. Chrissopoulou  
"Polymer / Layered Silicate Nanohybrids: Structure and Dynamics" National Hellenic Research Foundation, February 2009
2. K. Chrissopoulou  
"Structure and Dynamics in Polymer Nanocomposites" Department of Materials Science and Technology, University of Crete, March 2015
3. K. Chrissopoulou  
"Structure and Dynamics in Polymer Nanohybrids" Department of Mechanical and Manufacturing Engineering, University of Cyprus, March 2017
4. K. Chrissopoulou  
"Structure and Dynamics in Polymer Nanocomposites" Institute of Chemical Engineering Sciences, Foundation for Research and Technology - Hellas, Patras, September 2019.

## ORGANIZATION OF SCIENTIFIC CONFERENCES

1. Member of the organizing committee of the XXIV Panhellenic Conference on Solid State Physics and Materials Science, 21-24 September 2008, Fodele Crete, Greece (<http://xxiv-pc.iesl.forth.gr> )
2. Organizer of an annual meeting entitled "*Nanostructured Hybrid Materials II: reinforced 3D structures, smart composites, self-healing*" in the framework of the COST Action MP1202 "Rational design of hybrid organic-inorganic interfaces: the next step towards advanced functional materials", 22-24 April 2015, Heraklion Crete, Greece (<http://www.cost-hint.cnrs.fr/index.php/news-and-events/20-workshop-heraklion-2015> )
3. Member of the organizing committee of the 11<sup>th</sup> Hellenic Polymer Society International Conference, 3-5 November 2016, Heraklion Crete, Greece (<http://www.iesl.forth.gr/conferences/polyconf11> )
4. Member of the organizing committee of the Eurofillers & Polymer Blends 2017 conference, April 23-27, 2017, Hersonissos Heraklion Crete, Greece (<http://www.eurofillers2017.org/> )
5. Member of the organizing committee of the European Polymer Congress 2019, June 9-14, 2019, Hersonissos Heraklion Crete, Greece (<http://www.epfcrete2019.org/> )
6. Member of the organizing committee of the 36<sup>th</sup> European Colloid & Interface Society Conference, September 4-9, 2022, Chania Crete, Greece (<https://ecis2022.org/> )
7. Member of the organizing committee of the XXXVI Panhellenic Conference on Solid State Physics and Materials Science, September 26-28, 2022, Heraklion Crete, Greece (<https://fsk36.materials.uoc.gr/> )

## STUDENT AND POST-DOCTORAL SUPERVISION

### *Post-doctoral Fellows*

1. *F. Krasanakis* (01/04/2019 - )

### *PhD Students*

1. *S. Fotiadou*, Ph.D (2012), "Interfacial Phenomena in Polymer / Inorganic Nanocomposites" Aristotle University of Thessaloniki, Dept. of Chemical Engineering (in collaboration with Prof. S. H. Anastasiadis).
2. *E. Papananou*, Ph.D (2017), "Polymer Structure and Dynamics under Confinement" Univ. of Crete, Chemistry Dept. (in collaboration with Prof. S. H. Anastasiadis).
3. *S. Bollas*, Ph.D (2019), "Polymers adsorbed on Surfaces" Univ. of Patras, Physics Dept. (in collaboration with Ch. Topraktsioglou and S. H. Anastasiadis).
4. *K. Androulaki*, Ph.D (2019), "Polymer dynamics in nanohybrid materials: Effect of the polymer architecture and the additive geometry" Univ. of Crete, Chemistry Dept. (in collaboration with Prof. S. H. Anastasiadis).
5. *E. Giannakaki*, "Development of self-healing polymer coatings" Univ. of Crete, Chemistry Dept. (in collaboration with Prof. S. H. Anastasiadis).
6. *F. Gkointa*, "Development of functional material surfaces" Univ. of Crete, Physics Dept. (in collaboration with Prof. S. H. Anastasiadis).

### *MSc Students*

1. *I. Altintzi*, M.Sc (2005) "Control of the miscibility in poly(olefin)/layered silicate nanocomposites by altering the polymer/surface interactions", Univ. of Crete, Physics Dept. (in collaboration with Prof. S. H. Anastasiadis).
2. *K. Karagianni*, M.Sc (2005), "Micellization in Copolymer/Homopolymer Blends. Effect of Architecture and Composition" Univ. of Crete, Chemistry Dept. (in collaboration with Prof. S. H. Anastasiadis).
3. *A. Afratis*, M.Sc (2005), "Structure and dynamics in organic / inorganic nanocomposites" Univ. of Crete, Chemistry Dept. (in collaboration with Prof. S. H. Anastasiadis and Prof. M. Vamvakaki).
7. *I. Andrianaki*, M.Sc (2007), "Polymer / layered silicate and polymer / perovskite nanohybrids: Synthesis and study of the properties" Univ. of Crete, Physics Dept. (in collaboration with Prof. S. H. Anastasiadis and Dr. A. Lappas).
8. *F. Krasanakis*, M.Sc (2008), "Synthesis and investigation of the interactions in nanohybrids of diblock copolymers and inorganic materials" Univ. of Crete, Chemistry Dept. (in collaboration with Prof. M. Vamvakaki).
9. *E. Papananou*, M.Sc (2009), "Polymer chain crystallization in polymer / layered silicate nanocomposites", Aristotle University of Thessaloniki, Dept. Of Chemical Engineering (in collaboration with Prof. S. H. Anastasiadis).
10. *K. Androulaki*, M.Sc (2012), "Structure and Dynamics of Nanohybrids Based on Hyperbranched Polymers" Univ. of Crete, Chemistry Dept. (in collaboration with Prof. S. H. Anastasiadis).

11. *A. Anagnostakis*, M.Sc (2017), "Investigation of the structure formation of giant polymer-protein amphiphiles" Univ. of Crete, Chemistry Dept. (in collaboration with Prof. S. H. Anastasiadis and Prof. K. Velonia).
12. *S. Koghilakis*, M.Sc (2021), "Rheological properties of polymer nanocomposites" Univ. of Crete, Chemistry Dept. (in collaboration with Prof. S. H. Anastasiadis)
13. *F. Gkointa*, MSc, (2021), "Development of functional material surfaces" Univ. of Crete, Physics Dept. (in collaboration with Prof. S. H. Anastasiadis).
14. *I. Karnis*, MSc, Univ. of Crete, Chemistry Dept.
15. *T. M. Chatzaki*, MSc, Univ. of Crete, Chemistry Dept.
16. *G. Markozanne*, MSc, Univ. of Crete, Chemistry Dept.
17. *K. Kardianaki*, MSc, Univ. of Crete, Chemistry Dept.

### **Undergraduate Students**

1. *F. Krasanakis*, Undergraduate Senior Thesis (2006), "Synthesis, characterization and properties of polystyrene / layered silicate nanocomposites" Univ. of Crete, Dept. of Materials Science and Technology (in collaboration with Prof. M. Vamvakaki).
2. *A. Gioulaki*, Undergraduate Senior Thesis (2007), "Influence of the macromolecular architecture on the micellization in copolymer / homopolymer blends" Univ. of Crete, Dept of Materials Science and Technology (in collaboration with Prof. S. H. Anastasiadis).
3. *N. Koufaki*, Undergraduate Senior Thesis (2007), "Study of the miscibility in organic / inorganic nanohybrids " Univ. of Crete, Physics Dept. (in collaboration with Prof. S. H. Anastasiadis).
4. *V. S. Petrakis*, Diploma thesis (2012), "Polymeric Core-Shell Nanoparticles for Coating Applications" Univ. of Crete, Chemistry Dept. (in collaboration with Prof. S. H. Anastasiadis).
5. *E. Perivolari*, Undergraduate Senior Thesis (2016), "Investigation of poly(ethylene oxide)/silica nanoparticles nanocomposites", Univ. of Crete, Dept. of Materials Science and Technology
6. *S. Lais*, Undergraduate Senior Thesis (2016), "Crystallization kinetics in poly(ethylene oxide)/silica nanoparticles nanocomposites", Univ. of Crete, Chemistry Dept. (in collaboration with Prof. S. H. Anastasiadis).
7. *D. Chatzogiannakis*, Undergraduate Senior Thesis (2017), "Effect of salt on the size of charged polymer brushes" Univ. of Crete, Chemistry Dept. (in collaboration with Prof. S. H. Anastasiadis).
8. *N. Paspali*, Undergraduate Senior Thesis (2018), "Development of Poly(vinyl alcohol), PVA, hydrogels with carbon-based nano-additives" Univ. of Crete, Chemistry Dept. (in collaboration with Prof. S. H. Anastasiadis and Prof. K. Karatasos).
9. *E. Giannakaki*, Undergraduate Senior Thesis (2018), "Crystallization in Poly(ethylene oxide) Nanohybrids with Mixtures of Inorganic Nanoadditives" Univ. of Crete, Chemistry Dept. (in collaboration with Prof. S. H. Anastasiadis).

10. *M. Th. Chatzaki*, Undergraduate Senior Thesis (2021), "Altering the Surface Properties of Flexible Substrates to become Superhydrophobic and Water Repellent" Univ. of Crete, Chemistry Dept. (in collaboration with Prof. S. H. Anastasiadis).
11. *G. Markozanne*, Undergraduate Senior Thesis (2021), "Polymer Crystallization in the Presence of Inorganic Nanoparticles" Univ. of Crete, Chemistry Dept. (in collaboration with Prof. S. H. Anastasiadis).
12. *E. Melambianaki*, Undergraduate Senior Thesis (2021), "Crystallization Kinetics in PEO / SiO<sub>2</sub> nanocomposites" Univ. of Crete, Dept. of Materials Science and Technology.
13. *I. Karamitrou*, Undergraduate Senior Thesis, Univ. of Crete, Chemistry Dept.
14. *K. Plexousaki*, Undergraduate Senior Thesis, Univ. of Crete, Chemistry Dept.

## RESEARCH PROJECTS

- 1. “Thalis” Programme for the Development of Interdisciplinary and Interinstitutional Basic and Applied Research of High Quality 2007-2013 (Ministry of Education, Lifelong Learning and Religion)**  
*"High performance nanocomposite materials: Reinforcement of polymers with advanced carbon and silica nanostructures"*  
Participants: Aristotle University of Thessaloniki, Thessaloniki, Greece  
**FO.R.T.H.-I.E.S.L.**, Heraklion Crete, Greece (**co-PI**)  
University of Ioannina, Ioannina, Greece  
Duration: 01/01/2012-30/09/2015  
Budget: **IESL**: 176,500 Euros, **Total**: 521,740 Euros
- 2. Action “Υποστήριξη Ερευνητών με Έμφαση στους Νέους Ερευνητές-κύκλος Β” Operational programme "Human Resources Development, Education and Life Lifelong Learning" 2014-2020.**  
*"Polymer / graphene derivative Nanocomposites: Influence of Interfacial Interaction on the Polymer Structure and Properties (POLYGRAPH)"*  
Participant: **FO.R.T.H.-I.E.S.L.**, Heraklion Crete, Greece (**PI**)  
Duration: 2020-2021  
Budget: 50,050 Euros
- 3. “Ερευνώ-Δημιουργώ-Καινοτομώ” Operational Programme for Competitiveness, Entrepreneurship and Innovation 2014-2020 (General Secretariat of Research and Technology, Greece)**  
*"Synthesis of waterborne polyurethane dispersions with encapsulation of micro / nano structures for ecological self-healing coatings" (SELFNANOPUD)*  
Participants: Megara Resins, Megara, Greece  
**FO.R.T.H.-I.E.S.L.**, Heraklion Crete, Greece (**co-PI**)  
Dep. of Chemistry, University of Patras, Rio Patras, Greece  
ERLAC S.A., Oropos, Greece  
Duration: 16/06/2020-15/12/2022  
Budget: **IESL**: 180,990.26 Euros, **Total**: 989,081.68 Euros
- 4. 1<sup>st</sup> Call for H.F.R.I Research Projects to Support Faculty Members & Researchers and Procure High-Value Equipment (category IIIb). Hellenic Foundation for Research & Innovation.**  
*"A Small-Angle X-ray Scattering Platform for the Investigation of Soft Matter" (SAXS\_SOFT)*  
Participants: **FO.R.T.H.-I.E.S.L.**, Heraklion Crete, Greece (**co-PI**)  
Duration: 10/04/2021-09/04/2024  
Budget: 937,000 Euros
- 5. FORTH Synergy Grands 2021**  
*"Novel Cold-Plasma Induced Inorganic Network Formation in Nanohybrid Polymer Electrolytes for Water Splitting" (PlaNet)*  
Participants: **FO.R.T.H.-I.E.S.L.**, Heraklion Crete, Greece (**PI**)  
FO.R.T.H.-I.C.E.-H.T, Patras, Greece  
Duration: 01/07/2021-30/06/2023  
Budget: **IESL**: 26,700.00 Euros, **Total**: 80,000.00 Euros



## **PARTICIPATION IN OTHER RESEARCH PROJECTS**

1. **Development of Industrial Research Programme 2001 (General Secretariat for Research and Technology, Greece)**  
"Nanocomposite Materials of Polyethylene for Food Packaging and Agricultural Applications"  
Participants: S & A Industrial Minerals S. A. Athens, Greece  
**FO.R.T.H-I.E.S.L.**, Greece  
University of Athens, Department of Chemistry, Greece  
Duration: 01/09/01 - 31/08/03  
Budget: *IESL*: 4,000,000 GDR, *Total*: 26,290,000 GDR
  
2. **Shared Cost RTD (Growth) 2001**  
"Innovative Environmentally Friendly Flame-Retarded Polypropylene Nanocomposites"  
Participants: S & A Industrial Minerals S. A. Athens, Greece  
**FO.R.T.H-I.E.S.L.**, Greece  
IKO-Erbslöh Industriemineralien und Kohlenstoffe GmbH, Germany  
Laviosa Chimica Mineraria, Italy  
Carmel Olefins Ltd., Israel  
Dead Sea Bromine Group, Israel  
Poliplast Sarl, Italy  
The Interuniversity National Consortium for Materials Science and Technology, Italy  
Duration: 01/02/2003 – 31/01/2006  
Budget: *IESL*: 341,417 Euros, *Total*: 3,170,073 Euros
  
3. **Programme for the Improvement of Human Potential 2003 (General Secretariat for Research and Technology, Greece)**  
"Development of nanostructured polymer/inorganic hybrids for random lasing applications"  
Participants: **FO.R.T.H-I.E.S.L.**, Greece  
University of Crete, Departments of Chemistry and Materials Science and Technology, Greece  
S & A Industrial Minerals S. A. Athens, Greece  
Analitikes Siskeues S. A., Greece  
Duration: 01/02/2003 – 31/01/2006  
Budget: *IESL*: 131,000 Euros, *Total*: 288,000 Euros
  
4. **Interreg IIIA / Greece-Cyprus (General Secretariat for Research and Technology, Greece)**  
"Novel Photovoltaic Elements and Photovoltaic Systems with Optimal Efficiency"  
Participants: Technological Educational Institute of Heraklion, Greece  
University of Cyprus, Cyprus  
**FO.R.T.H-I.E.S.L.**, Greece  
Duration: 11/2006 - 10/2008  
Budget: *IESL*: 25,000 Euros, *Total*: 290,000 Euros

5. **“Synergasia” Operational Programme for Research and Technology 2007-2013 (General Secretariat of Research and Technology, Greece)**  
 "Development of Environmental Friendly Core-Shell Nanodispersions for the Coatings Industry"  
 Participants: **FO.R.T.H.-I.E.S.L.**, Heraklion Crete, Greece  
 Interchem Hellas S. A., Athens, Greece  
 CE.R.T.H.-C.P.E.R.I., Thessaloniki, Greece  
 Duration: January 1, 2011 – December 31, 2013  
 Budget: **IESL:** 153,340 Euros, **Total:** 510,798.92 Euros
  
6. **Development of Industrial Research Programme PAVET2013**  
 "Development of bio-based waterborne coatings for the wood industry"  
 Participant: Megara Resins S.A.  
 Sub-contractors: **FO.R.T.H.-I.E.S.L.**, Heraklion Crete, Greece  
 NCSR Demokritos  
 Duration: 2014-2015  
 Budget: **IESL:** 65,000 Euros
  
7. **GSRT Research Centers Development Action**  
 "Materials and Processes for Applications in Energy and the Environment"  
 Participants: **FO.R.T.H.-ICE-HT**, Patras, Greece  
**FO.R.T.H.-I.E.S.L.**, Heraklion Crete Greece  
**FO.R.T.H.-IACM**  
 Duration: September 8, 2017 – October 31, 2021  
 Budget: **IESL:** 405,000 Euros, **Total:** 1,086,150.00 Euros
  
8. **GSRT National Roadmap of Research Infrastructures**  
 "National Infrastructure in Nanotechnology, Advanced Materials and Micro/nano-electronics"  
 Participants: NCSR Demokritos - INN, Athens, Greece  
**FO.R.T.H.-I.E.S.L.**, Heraklion Crete, Greece  
**FO.R.T.H.-ICE-HT**, Patras, Greece  
 NTUA-SAMPS, Athens, Greece  
 NHRF – TCPI, Athens, Greece  
 UoI – DEMSE-DP, Ioannina, Greece  
 AUTH – EIMicLab, Thessaloniki, Greece  
 EIM, Thessaloniki, Greece  
 Duration: April 1, 2018 – October 31, 2021  
 Budget: **IESL:** 962,500.00 Euros, **Total:** 4,000,000.00 Euros
  
9. **“Ερευνώ-Δημιουργώ-Καινοτομώ” Operational Programme for Competitiveness, Entrepreneurship and Innovation 2014-2020 (General Secretariat of Research and Technology, Greece)**  
 "Innovative polymer greenhouse films via application of functional coatings"  
 Participants: Plastika Kritis, S.A., Heraklion Crete, Greece  
**FO.R.T.H.-I.E.S.L.**, Heraklion Crete, Greece  
 University of Crete, Heraklion Crete, Greece  
 University of Thessaly, Volos, Greece  
 Duration: 06/06/2018-05/06/2021  
 Budget: **IESL:** 207,954.36 Euros, **Total:** 999,593.71 Euros

## **REVIEWER FOR SCIENTIFIC JOURNALS**

Macromolecules  
Science  
Polymer  
Journal of Polymer Science Part B: Polymer Physics  
European Polymer Journal  
Journal of Applied Polymer Science  
Macromolecular Materials and Engineering  
Macromolecular Symposia  
Journal of NanoResearch  
European Physical Journal E  
Applied Physics A  
Clay and Clay Minerals  
European Journal of Inorganic Chemistry  
Macromolecular Chemistry and Physics  
Physical Chemistry Chemical Physics  
Polymer International  
Polymers

## **OTHER ACTIVITIES**

1. Organizer of the IESL Seminars series (October 2019 - )
2. Member of the FORTH Restaurant Committee (15/10/2019 – 14/10/2021)
3. Member of the FORTH Gender Equality Committee, representing IESL (22/02/2021 - )
4. Elected Member of the Hellenic Polymer Society Board-Treasurer (2016- )

## **PROFESSIONAL AFFILIATIONS**

Hellenic Polymer Society  
American Physical Society (APS)  
American Chemical Society (ACS)