

# ATHANASIOS N. KANAPITSAS



## CURRICULUM VITAE

**Position:** Professor, Physics Department, University of Thessaly  
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**Personal web page:** <http://www.eln.teilam.gr/labs/physics/kanapitsas>  
**Date and place of birth:** April 14, 1968 (Lamia, Greece)  
**Nationality:** Greek  
**Education:**  
1991 BSc, Physics Department, University of Athens, Greece  
1997 PhD, Physics Department, National Technical University of Athens, Greece  
1997-2004 Postdoctoral researcher, Department of Physics, NTUA, Zografou Campus

**Positions:**  
2004-2012 Associate Professor, Electronics Department, Technological Educational Institute of Lamia, Lamia Greece.  
2012-2019 Professor, Electronic Engineering Department, Technological Educational Institute of Sterea Ellada, Lamia Greece.  
2019-2020 Professor, General Department, University of Thessaly  
2019-2020 Professor, Physics Department, University of Thessaly

### Academic Appointments:

- Vice Rector of Academic Affairs of T.E.I. of Sterea Ellada (2013-2015)
- Director of the Section of Structure and Computer Subjects at the Department of Electronics of T.E.I. of Lamia (since 2007-2010)
- Director of Physics Laboratory of Department of Electronics (T.E.I. of Lamia)
- Director of “Spectroscopy, Electrical and Electronic Measurements of Materials and Devices” Research Laboratory (Physics Department, University of Thessaly)  
<http://www.eln.teilam.gr/labs/physics/>

### Field of research:

Investigation of the molecular mobility mechanisms and the degree of microphase separation in multicomponent segmented polyurethane systems, composites, nanocomposite materials and biological systems (plant seeds, cells). Main interest focused on applying the Dielectric Relaxation Spectroscopy methods, in wide frequency and temperature range (by means of Thermally Stimulated Depolarization Currents (TSDC) and ac spectroscopy) in addition with Differential Scanning Calorimetry (DSC), Thermogravimetry (TGA) and Equilibrium and Dynamic water Sorption Isotherm (ESI, DSI) measurements in order to study the molecular mobility, microphase separation, structure-properties and the effects of sorbed water in molecular mobility of the materials under investigation.

The research interests include:

- the investigation of the structure-properties relationships in various polymer-based nanostructured materials
- the development of methodologies for using dielectric techniques for structural and morphological characterization in nanostructured materials
- measurements and modeling of electrical conductivity and molecular mobility in microelectronic materials and nanocomposites consisting of conducting and insulating regions
- the investigation of the hydration properties of polymers, composites and nanostructured polymer-based materials
- relaxation phenomena of polymers, interpenetrating polymer networks, hybrid composites, nanocomposites, microelectronic materials.

### Participation in National and European Research Projects:

1. 1993-95 “Mesoscopic two-phased systems”  
(VolksWagen – Stiftung, sy polymers and composites  
Keywords: dielectric relaxation spectroscopy, poly VWS – Koeln University – National Technical University of Athens – Physics Department, NTUA)
2. 1994-95 “International Network for structure –properties study of polymeric and composite

- materials”, NTUA –INTAS Network
3. 1992-93 “Molecular Mobility and Morphology of New Polyurethane Systems” Greece – Germany, General Secretariat for Research and Technology (GSRT), NTUA – Centre for Macromolecular Chemistry, Berlin Germany
  4. 1994-95 “Ageing and environmental condition effects in Structure and Morphology of new polyurethane systems” Greece – Germany, General Secretariat for Research and Technology (GSRT), NTUA – Centre for Macromolecular Chemistry, Berlin Germany
  5. 1996-97 “Hydration Properties of Biotechnological materials” Greece - Czech, General Secretariat for Research and Technology (GSRT), NTUA – Charles University of Prague
  6. 2000-01 “Study of nanostructured particles in liquid crystals and polymer melts” NTUA-PENED (GSRT),
  7. 2001-02 “Dipolar polarization and space charge effects in ferroelectric polyamides” IKYDA (National Institution of Scholarships, Greece-Germany) NTUA – Potsdam University, Germany
  8. 2002-03 “Structure – properties relationship in ferroelectric polyamides” National Institution of Scholarships – Postdoctoral Research Programme NTUA - Potsdam University, Germany
  9. 2003-04 “Comparative study of leukemic cells with dielectric and biochemic methods” NTUA – National Centre of Science Research “Demokritos”
  10. 2004-07 “High technology polymeric coatings”, “ARXIMEDES I” NTUA-TEI LAMIAS-TEI KOZANHS- Strathclyde University-University of Patras - University of Ioannina
  11. 2005-07 “High technology materials for electrostatic shielding”, “ARXIMEDES II” NTUA-TEI LAMIAS-TEI KOZANHS- Strathclyde University-University of Patras University of Ioannina
  12. 2012-15 “Multifunctional polymer nanocomposites”, “THALIS” - Coordinator NSRF 2007-2013 (University of Patras – NCSR “DEMOKRITOS”-TEI of Athens
  13. 2020 - “Integrating Multi-Functionality and Smart Performance in Hybrid Polymer Nanodielectrics” ELIDEK II, University of Patras - NCSR “DEMOKRITOS”- University of Thessaly

#### Participation in Scientific Committees of International Conferences:

- 25<sup>th</sup> International Conference on Microelectronics (MIEL 2006), IEEE Electron Devices Society, Beograd (Serbia), May 2006, (Chair)
- 1<sup>st</sup> WSEAS International Conference on Nanotechnology (NANOTECHNOLOGY 2009) (Chair, invited presentation)

**Publications:** 47 refereed papers, 60 in refereed proceedings

**Conference participation:** 160 international conferences, 4 international seminars, 26 national conferences.

**Citations:** > 600

**Scientific Memberships:** «Greek Physicists Union» from 1991, «International Dielectrics Society» from 2001, «Institute of Electrical and Electronic Engineers» (IEEE) from 2006, «American Physical Society» (APS) from 2009.

**Reviewer in:** *Journal of Applied Polymer Science, Journal of Polymer Science part B: Polymer Physics, Advanced Materials Forum, Materials Chemistry and Physics, IEEE Sensors Journal, Soft Matter, Journal of Materials Chemistry, Polymer Composites, etc.*

#### Additional Activities:

- Member of Board of Studies & Research of the T.E.I. of Lamia (since 2007)
- Member of the Internal Evaluation Team of the Department of Electronics of the T.E.I. of Lamia
- Institutional academic coordinator of Erasmus Life Long Learning Program of T.E.I. of Lamia
- Head of the Institute of Industrial Automation and Robotics of the Centre for Technological Research of Central Greece (C.T.R.C.G - T.E.I. of Lamia) (2005-2009)
- Examiner at National Institution for Scholarships (IKY) for scholarships to postgraduate students studying at foreign Universities in the subjects areas: Electronics (since 2008)
- Member of the supervising team for MSc students participating a joint program of T.E.I. of Athens and Brunel University of West London.
- Member of the supervising teams for PhD students in research programs of the National Technical University of Athens and the University of Patras.

**Courses taught** at the Dept. of Electronics, T.E.I. of Lamia, T.E.I of Sterea Ellada : Physics, Microelectronics (VLSI, Digital Integrated Circuits), Analytical Instruments (Spectroscopy Devices), Medical Electronics Nanoelectronics and Physics Laboratory I & II at Physics Department, University of Thessaly.

**Lecture Notes - Books:** "Laboratory Physics" Lecture notes, 2008, "Physics Lectures" Lecture notes, 2008, "Integrated Circuits CMOS" Lecture notes, 2008, "Analytical Instruments" Lecture notes, 2008, "Medical Electronics" Lecture notes, 2008, "Fundamentals of Nanoelectronics", G.W. Hanson, Pearson, Prentice Hall, 2008), translation in Greek, Tziolas publications 2010.

## PUBLICATIONS LIST

1. A.A. Konsta, P. Pissis, A. Kanapitsas and S. Ratkovic  
"Dielectric and Conductivity Studies of the Hydration Mechanisms in Plant Seeds"  
Biophysical J., 70, 1485-1493 (1996).
2. P. Pissis and A. Kanapitsas  
"Broadband Dielectric Relaxation Spectroscopy at  $10^{-4}$  -  $10^{10}$  Hz", (review paper),  
J. Serb. Chem. Soc, 61(9), 703-715 (1996).
3. A. Kanapitsas, P. Pissis, L. Apekis, L. Karabanova and L. Sergeeva  
"Broadband Dielectric relaxation Spectroscopy in Interpenetrating Polymer Networks of Polyurethane-Copolymer of Butylmethacrylate and Dimethacrylate Triethylene Glycol"  
Polymer Gels and Networks, 6, 83-102, (1998).
4. Yu.V. Savelyev, E.R. Akhranovich, A.P. Grekov, E.G. Privalko, V.V. Korskanov, V.F. Stompell, V.P. Privalko, P. Pissis and A. Kanapitsas  
"Influence of Chain Extenders and Chain End Groups on Properties of Segmented Polyurethanes I. Phase Morphology"  
Polymer, 39, 15, 3425-3429, (1998).
5. P. Pissis, A. Kanapitsas, Yu.V. Savelyev, E.R. Akhranovich, E.G. Privalko and V.P. Privalko  
"Influence of Chain Extenders and Chain End Groups on Properties of segmented Polyurethanes II. Dielectric Study"  
Polymer, 39, 15, 3431-3435, (1998).
6. L. Karabanova, P. Pissis, A. Kanapitsas and E. Lutsyk  
"Thermodynamic State, temperature Transitions and Broadband Dielectric Relaxation Spectroscopy in Gradient Interpenetrating Polymer Networks"  
J. Appl. Polym. Sci., 68, 161-171, (1998).
7. A. Kanapitsas, P. Pissis, J.L. Gomez Ribelles, M. Monleon Pradas, E.G. Privalko and V.P. Privalko  
"Molecular Mobility and Hydration Properties of Segmented Polyurethanes with varying structure of soft and hard chain segments"  
J. Appl. Polym. Sci., 71, 1209-1221, (1999).
8. A. Kanapitsas, P. Pissis, and A.G. Estrella  
"Molecular Mobility in Polyurethane/Styrene Acrylonitrile Blends Studied by Dielectric Techniques"  
Eur. Polym. J., 35, 923-937, (1999).
9. V.P. Privalko, E.G. Privalko, V. Shtompel, A. Kanapitsas, P. Pissis, M.M. Pradas, J-L Ribelles  
"Influence of the Structure of Soft and Stiff Chain Fragments on Properties of Segmented Polyurethanes. I Phase morphology"  
Polym. Engineering and Sci., 39, 8, 1534-1540, (1999).
10. G. Georgoussis, A. Kanapitsas, P. Pissis, Yu.V. Savelyev, V.Ya. Veselov and E.G. Privalko  
"Structure-property Relationships in segmented Polyurethanes with Metal Chelates in the Main Chain,  
Eur. Polym. J., 36, 1113-1126, (2000).
11. A. Kanapitsas and P. Pissis  
"Dielectric Relaxation Spectroscopy in Crosslinked Polyurethanes based on Polymer Polyols"  
Eur. Polym. J., 36, 1241-1250, (2000).
12. P. Pissis, A. Kanapitsas, G. Georgoussis, V. Berhstein, P. Sysel  
"Structure-Property Relationships in Novel Hybrid Nanostructured Organic/Organic and Organic/Inorganic Materials"  
Uzbek Journal of Physics, Vol. 3, 54-60, (2001).

13. A.S. Vatalis, A. Kanapitsas, C.G. Delides, P. Pissis  
"Relaxation Phenomena and Morphology in Polymer Blends based on Polyurethanes investigated by Various Thermal Analysis Techniques"  
*Thermochimica Acta*, 372, 33-38, (2001).
14. A.S. Vatalis, A. Kanapitsas, C.G. Delides, K. Viras, P. Pissis  
"Phase Behavior and Molecular Mobility in Polyurethane/Styrene–Acrylonitrile Blends studied by Thermal, Dielectric and Mechanical techniques"  
*J. Appl. Polym. Sci.*, 80, 1071-1084, (2001).
15. A. Kanapitsas, P. Pissis, R. Kotsilkova  
"Dielectric studies of Molecular Mobility and Phase Morphology in Polymer – Layered Silicate Nanocomposites"  
*J. Non-Crystalline Solids*, 305, 204-211, (2002).
16. P. Pissis, A. Kanapitsas, G. Georgoussis, V.A. Bershtein, P. Sysel  
"Dielectric Studies of Phase Morphology and Molecular Mobility in Novel Nanocomposites based on Polyimide"  
*Advanced Composites Letters*, Vol. 11, No. 2, 49-58 (2002).
17. V.A. Bershtein, L.M. Egorova, P.N. Yakushev, O. Meszaros, P. Sysel, L. David, E. Duval, A. Kanapitsas, P. Pissis  
"Nanostructure and Molecular Dynamics in Rod-Like Polyimide/Flexible Chain Polyimide Molecular Composites"  
*J. Macrom. Sci.- Phys B*, 41, 419-450, (2002).
18. V.A. Bershtein, L. David, L.M. Egorova, A. Kanapitsas, O. Meszaros, P. Pissis, P. Sysel, P.N. Yakushev  
"Structure-Property Relationship in Polyimide Molecular Composites"  
*Materials Research Innovations*, 5, 230-237, (2002).
19. A. Kanapitsas, P. Pissis, C.G. Delides, P. Sysel, V. Sindelar, V.A. Bershtein  
"Poly(imide-amide)-Poly(ethylene adipate) Hybrid Networks. II Dielectric Studies"  
*Polymer*, 43, 6955-6963, (2002).
20. Yevgen Mamunya, Athanasios Kanapitsas, Polycarpos Pissis, Gisele Boiteux, Eugene Lebedev  
"Water Sorption and Electrical / Dielectric Properties of Organic – Inorganic Polymer Blends"  
*Macromolecular Symposia*, 198, 449-459, (2003).
21. M. Roussos, A. Konstantopoulou, I. Kalogeras, A. Kanapitsas, P. Pissis, Y. Saveliev, A. Vassilikou-Dova  
"Comparative Dielectric studies of Segmental Mobility in Novel Polyurethanes"  
*e-Polymers*, no 042, (2004).
22. K. Raftopoulos, I. Zegkinoglou, A. Kanapitsas, S. Kriptou, H. Christakis, A. Vassilikou-Dova, P. Pissis, Y. Saveliev  
"Dielectric and Hydration Properties of Segmental Polyurethanes"  
*e-Polymers*, no 043, (2004).
23. H. Zois, A. Kanapitsas, P. Pissis, L. Apekis, E. Lebedev, Y. Mamunya  
"Dielectric Properties and Molecular Mobility of Organic/Inorganic Polymer Composites"  
*Macromolecular Symposia*, 205, 263-272, (2004).
24. Ye.P. Mamunya, V.I. Shtompel, E.V. Lebedev, P. Pissis, A. Kanapitsas, G. Boiteux  
"Structure and water sorption of polyurethane nanocomposites based on organic and inorganic components"  
*Eur. Polym. J.*, 40, 2323-2331, (2004).
25. P. Xynogalas, A. Kanapitsas, V. Constantinou-Kokotou, P. Pissis, K. Viras  
"Phase transitions in crystals of racemic long chain 2-amino alcohols"  
*Chemistry and Physics of Lipids*, 135, 83-92, (2005).
26. A. Kanapitsas, E. Lebedev, O. Slisenko, O. Grigoryeva, P. Pissis  
"Thermoplastic Apparent Interpenetrating Polymer Networks of Polyurethane and Styrene/acrylic Acid Block Copolymer. Structure – Property Relationships"  
*Journal of Applied Polymer Science*, 101, 1021-35, (2006)

27. A. Kanapitsas, P. Vartzeli-Nikaki, A.A. Konsta, E.-E. Visvardis, E.G. Sideris  
 “Dielectric Properties during Apoptosis in Peripheral Blood Cells from Chronic Lymphocytic Leukaemia Patients”  
 IEEE Transactions on Dielectrics and Electrical Insulation 13, No5, 1057-62 (2006)
28. P. Pissis, D. Fragiadakis, A. Kanapitsas, K. Delides  
 “Broadband Dielectric Relaxation Spectroscopy in polymer nanocomposites”  
 Macromolecular Symposia 265, 12 (2008)
29. C. Tsonos, I. Stavrakas, C. Anastasiadis, A. Kyriazopoulos, A. Kanapitsas, D. Triantis  
 “Probing the microstructure of cement mortars through dielectric parameters variation”  
 Journal of Physical Chemistry of Solids, 70, 576–583, (2009).
30. Y.V. Savelyev, V.Y. Veselov, V.K. Kharitonova, O.A. Savelyeva, V.I. Shtompel, A.I. Perekhrest, T.V. Travinskaya, A. Kanapitsas, P. Pissis  
 “Synthesis and structural peculiarities of 1,1-dimethylhydrazine-based polyurethanes”  
 Journal of Applied Polymer Science, 112 (5), 2732, (2009)
31. A. Kanapitsas, C. Tsonos, D. Triantis, I. Stavrakas, C. Anastasiadis, P. Photopoulos, P. Pissis, V.Em. Vamvakas  
 “Thermally activated conduction mechanisms in Silicon Nitride MIS structures”  
 Thin Solid Films, 518, 2357, (2010).
32. C. Tsonos, A. Kanapitsas, D. Triantis, C. Anastasiades, I. Stavrakas and P. Pissis  
 “Low temperature dielectric relaxations in ZnO varistor”  
 Japp. Journal of Applied Physics, 49 (5 PART 1), pp. 0511021-0511025 (2010)
33. C. Tsonos, A. Kanapitsas, D. Triantis, C. Anastasiadis, I. Stavrakas, E. Neagu, P. Pissis  
 “Interface states and MWS polarization contributions to the dielectric response of low voltage ZnO varistor”  
 Ceramics International, 37, 1 207-214, (2011)
34. C.Tsonos, I.Stavrakas, C. Anastasiadis, A. Kyriazopoulos, A. Kanapitsas, D. Triantis  
 “Isothermal depolarization currents measurements of cement mortar during hardening process. Commentaries on previous work”  
 Journal of Physics and Chemistry of Solids, 72, 1554 – 1556, (2011)
35. Christos Tsonos, Athanasios Kanapitsas, Aristides Kechriniotis and Nicholas Petropoulos  
 “Ac and dc conductivity correlation: the coefficient of Barton–Nakajima–Namikawa relation”  
 Journal of Non-Crystalline Solids, 358 (14), pp. 1638-1643, (2012)
36. A.Kanapitsas, C.Tsonos, H.Zois, C.G.Delides, G.Psarras,  
 "Thermal and mechanical characterization of epoxy resin nanocomposites",  
 Journal of Advanced Physics, vol.2, 25-28, (2013)
37. A. Kanapitsas, C. Tsonos, C. G. Delides, G. C. Psarras  
 “Thermogravimetric and dielectric study of ER/BaTiO<sub>3</sub>/ZnO composites”,  
*Macromolecular Symposia*, 331-332, 181-188, (2013).
38. A. C. Patsidis, S. N. Georga, C. A. Krontiras, G. C. Psarras, A. Kanapitsas, C. Tsonos “Effect of filler size on the thermal properties of ER/BaTiO<sub>3</sub> composites”,  
 Macromolecular Symposia, 331-332, 189–196, (2013).
39. A. Kanapitsas, C. Tsonos, H. Zois, C. Delides, G.C. Psarras  
 “Thermal and Mechanical Characterization of Epoxy Resin Nanocomposites”  
 Journal of Advanced Physics, 2, 25 – 28, (2013)
40. C. Tsonos, A. Kanapitsas, G.C. Psarras, Th. Speliotis  
 “Effect of ZnO nanoparticles on the dielectric/electrical and thermal properties of epoxy-based nanocomposites”  
 Science of Advanced Materials, 7, 588-597, (2015)
41. C. Tsonos, C. Pandis, N. Soin, D. Sakellari, E. Myrovali, S.Kriptou, A. Kanapitsas, E.Siores  
 “Multifunctional nanocomposites of poly(vinylidene fluoride) reinforced by carbon nanotubes and magnetite nanoparticles”  
 Express Polymer Letters 9(12), 1104-1118, (2015)  
 DOI 10.3144/expresspolymlett.2015.99
42. A. Kanapitsas, C. Tsonos, G.C. Psarras, S. Kriptou

- “Barium Ferrite/Epoxy Resin Nanocomposite system: Fabrication, Dielectric, Magnetic and Hydration Studies”  
Express Polymer Letters, 10(3), 227-236, (2016)  
DOI 10.3144/expresspolymlett.2016.21
43. C. Tsonos, G. Tomara, B. Yang, N. Soin, G. Psarras, A. Kanapitsas, E. Siores  
“Electromagnetic wave absorption properties of ternary poly(vinylidene fluoride)/magnetite nanocomposites with carbon nanotubes and graphene”  
RSC Adv., 6, 1919–1924, (2016)
44. A. Kanapitsas, G. C. Psarras, C. Tsonos, Th. Speliotis, A. C. Patsidis, E. Siores, and D. Triantis  
“Magneto-electric response and functionality in barium ferrite/barium titanate/epoxy resin nanocomposites”  
Journal of Advanced Physics, Vol. 6, No.1, pp. 69-75, (2017)
45. A. Sanida, Th. G. Velmachos, S. G. Stavropoulos, G. C. Psarras, C. Tsonos, A. Kanapitsas, N. Soin, E. Siores  
“Thermomechanical response of Fe<sub>3</sub>O<sub>4</sub>/PVDF nanocomposites”  
Procedia Structural Integrity 10 pp. 91-96 (2018)
46. C. Tsonos, H. Zois, A. Kanapitsas, N. Soin, E. Siores, A. Sanida, S. G. Stavropoulos, G. C. Psarras, G. D. Peppas, E. C. Pyrgioti  
"Polyvinylidene Fluoride/Magnetite Nanocomposites: Dielectric and Thermal Response"  
Journal of Physics and Chemistry of Solids, 129, pp. 378-386 (2019)

### **Γ. Δημοσιεύσεις σε πρακτικά διεθνών συνεδρίων με κριτές**

1. L. Apekis, P. Pissis, C. Christodoulides, A. Kanapitsas  
“Dielectric Relaxation Spectroscopy in Blends of Polyurethane and Styrene/Acrylonitrile”  
Proc. 8th International Symposium on Electrets (ISE 8), J. Lewiner, D. Morisseau, C. Alquie (eds.), IEEE, New York, (1994) p. 363 – 368.
2. C. Maggana, G. Spathis, P. Pissis, A. Kanapitsas, C. Delides, A. Vatalis  
“Thermally Stimulated Currents in Epoxy Resin Systems and Epoxy Resin/Rubber Blends”  
Proc. 8th International Symposium on Electrets (ISE 8), J. Lewiner, D. Morisseau, C. Alquie (eds.), IEEE, New York, (1994) p. 546 – 551.
3. A.A. Konsta, A. Kanapitsas, J. Laudat and A. Letoublon  
“Dynamic of the hydration in plant seeds”  
in “Molecular Properties and Chemistry of Biological Systems”, Edizioni dell’ Orso, (1996) p. 179-184
4. A. Kanapitsas, P. Pissis, A.G. Estrella, M. Ulcnik  
“Dielectric Investigations of Microphase Separation in Polyurethane-Styrene/ Acrylonitrile Blends”  
Proc. 7th International Conference on Dielectric Materials Measurements and Applications, IEEE, London, (1996) p. 230-233.
5. P. Pissis, A. Kanapitsas, C. Delides  
“Dielectric and Hygrothermal Studies in Rubber Modified Epoxy Resins”  
Proc. 7th International Conference on Dielectric Materials Measurements and Applications, IEEE, London, (1996) p. 56-59.
6. A. Kanapitsas, P. Pissis, L. Karabanova, L. Sergeeva, L. Apekis  
“Dielectric Relaxation Spectroscopy in Interpenetrating Polymer Networks”  
Proc. 7th International Conference on Dielectric Materials Measurements and Applications, IEEE, London, (1996) p. 60-63.
7. A. Kanapitsas, P. Pissis, L. Karabanova, K.G. Vyras  
“Microphase Separation in Interpenetrating Polymer Networks”  
Proc. 5th European Conference on Advanced Materials and Processes and Applications: Materials, Functionality & Design, Volume 2, Polymers and Ceramics, L. Sarton, H. Zeedijk (eds.), (1997) p. 191.
8. P. Pissis, A. Kanapitsas, C.G. Delides  
“Molecular Mobility and Hygrothermal studies in Rubber Modified Epoxy Resins”  
Proc. 5th European Conference on Advanced Materials and Processes and Applications: Materials, Functionality & Design, Volume 2, Polymers and Ceramics, L. Sarton, H. Zeedijk (eds.), (1997) p. 195.
9. A.G. Georgakilas, A.A. Konsta, K.S. Haveles, A. Kanapitsas and E.G. Sideris “Comparative Study of the DNA helix to coil thermal transition by dielectric spectroscopy and thermal transition spectrophotometry”,  
Spectroscopy of Biological Molecules: Modern Trends, Kluwer Academic Editions, (1996) p. 255-256.
10. L. Karabanova, P. Pissis, E. Lutsyk, A. Kanapitsas  
“Broadband Dielectric Relaxation Behavior and Temperature Transitions in Gradient Interpenetrating Polymer Networks”  
Proceedings of the International Conference on Polymer Characterization, Polychar-6 & Short Course, University of North Texas, Denton, USA, (1998).
11. G. Georgoussis, A. Kanapitsas, A. Kyritsis, P. Pissis, Yu.V. Savelyev, E.R. Akhranovich, E.G. Privalko and V.P. Privalko  
“Structure-property relationship in “charged” segmented polyurethanes”

12. A. Kanapitsas, A.S. Vatalis, C.G. Delides, E. Neagu, R. Neagu, P. Pissis  
“Relaxation Phenomena and Morphology in Polymer Blends based on Polyurethanes Investigated by various Thermal Analysis Techniques”  
Proc. 4th Mediterranean Conf. On Calorimetry and Thermal Analysis, G.P.Papanikolaou, G.Parissakis (eds.), (1999).
13. M. Borisova, O. Galukov, A. Kanapitsas  
“Polarization Phenomena in Blends of Polyurethane and Styrene-Acrylonitrile”  
Proc. 10th Int. Symp. on Electrets (ISE 10), A. Konsta, A. Vassilikou-Dova, K. Vartzeli-Nikaki (eds.), (1999), p. 573.
14. O. Galukov, M. Borisova, A. Kanapitsas, P. Pissis  
“Thermally Stimulated Depolarization Currents and Conductivity in Polyurethane/Styrene-Acrylonitrile Blends”  
Proc. 10th Int. Symp. on Electrets (ISE 10), A. Konsta, A. Vassilikou-Dova, K. Vartzeli-Nikaki (eds.), (1999), p. 151.
15. A. Kanapitsas, P. Pissis  
“Molecular Mobility and Styrene-Acrylonitrile Blends”  
Proc. 10th Int. Symp. on Electrets (ISE 10), A. Konsta, A. Vassilikou-Dova, K. Vartzeli-Nikaki (eds.), (1999), p. 485.
16. P. Pissis, A. Kanapitsas, G. Georgoussis, V. Berhstein, P. Sysel  
“Structure-Property Relationships in Novel Hybrid Nanostructured Organic/Organic and Organic/Inorganic Materials”  
Proceedings of the conference on “Problems of Micro-Structured Hard and Soft Matter Technology and Science”, Samarkand Uzbekistan, November 2000.
17. A. Kanapitsas, P. Pissis, R. Kotsilkova, I. Nedkov, S. Stavrev  
“Phase morphology and molecular mobility in hybrid nanocomposites”.  
in: “Composites: From Fundamentals to Advanced Structures” (ed. by V. Kostopoulos), (2001) p. 256-265
18. P. Pissis, A. Kanapitsas, G. Georgoussis, V.A. Bershtein, P. Sysel  
“Dielectric studies of phase morphology and mobility in novel nanocomposites based on polyimide”  
2nd Hellenic Conference on Composite Materials, HellasComp 2001  
In: “Composites: From Fundamentals to Advanced Structures” (ed. by V. Kostopoulos), (2001) p. 284-293
19. R. Kotsilkova, P. Pissis, A. Kanapitsas and S. Rousseva  
“Rheological and dielectric measurements of epoxy/smectite hybrids – a tool for evaluation of the molecular dynamics at the nanoscale interfaces”  
Proc. 2nd Workshop on Nanotechnology, November 2000, Sofia (Bulgaria)  
Nanoscience and Nanotechnology 1, Eds. E.Balabanova, I.Gragieva, Heron Press, Sofia, Bulgaria, (2001) p. 77
20. A. Kanapitsas, P. Pissis, R. Kotsilkova  
“Dielectric studies of molecular mobility and phase morphology in polymer – layered silicate nanocomposites”  
1st International Conference on Dielectric Spectroscopy in Physical, Chemical and Biological Application (DS 2001), Jerousalem (Israel), March 2001.
21. Ye.P. Mamunya, A. Kanapitsas, P. Pissis, G. Boiteux, E.V. Lebebev  
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