

VASSILIS GIONIS – ΒΑΣΙΛΕΙΟΣ ΓΚΙΩΝΗΣ

LIST OF PUBLICATIONS – ΚΑΤΑΛΟΓΟΣ ΔΗΜΟΣΙΕΥΣΕΩΝ

(Last update January 2016)

A. THESIS - ΔΙΔΑΚΤΟΡΙΚΟ

Thèse de doctorat d'Etat de l'Université Paris-Sud (Paris XI, Orsay).  
“New Series of Organic Solids with Mesomorphic properties: Organic Conductors with Liquid Crystalline Structure” ( French )  
*Thèse de Doctorat d'Etat ès Sciences Physiques*  
Defence on 22th September 1983, received with the highest honors of the examination comitee.

B. PUBLICATIONS IN REFERREED JOURNALS

ΔΗΜΟΣΙΕΥΣΕΙΣ ΣΕ ΔΙΕΘΝΗ ΠΕΡΙΟΔΙΚΑ ΜΕ ΚΡΙΤΕΣ

1. *Highly conducting TCNQ salts based on azapyridocyanines*,  
H. Strzelecka, V. Gionis, R. Fugnitto and J. Rivory,  
*Synthetic Metals* 5, 31-36 (1982).
2. *Tetraphenyldipyranlydene (DiPΦ<sub>4</sub>)*,  
D. Chasseau, J. Gaultier, C. Hauw, R. Fugnitto, V. Gionis and H. Strzelecka,  
*Acta Crystallographica (Section B)* 38, 1629-1631 (1982).
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V. Gionis, R. Fugnitto, G. Meyer, H. Strzelecka and J.C. Dubois,  
*Molecular Crystals and Liquid Crystals* 90, 153-162 (1982).
4. *Nature of the mesophase of a conducting charge transfer complex : neither discotic nor calamitic*,  
P. Davidson, A.M. Levelut, H. Strzelecka and V. Gionis,  
*Journal de Physique Lettres* 44, L823-L828 (1983).
5. *Synthesis and properties of mesogenic π-Donors : precursors of mesomorphic organic conductors*,  
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*Molecular Crystals and Liquid Crystals* 95, 351-358 (1983).
7. *Liquid crystalline organic conductors*,  
H. Strzelecka, V. Gionis, J. Rivory and S. Flandrois,  
*Journal de Physique* 44, C3\_1201-1206 (1983).
8. *The smectic A phases of some long chain substituted diaryl-2,6 pyrylium and thiopyrylium salts*,  
G. Sigaud, F. Hardouin, H. Gasparoux, V. Gionis, M. Veber and H. Strzelecka,  
*Molecular Crystals and Liquid Crystals* 92, 217-224 (1983).

9. *A convenient preparation of diaryl-2,6 thiopyrylium perchlorates. Positive salt effect,*  
V. Gionis, H. Strzelecka,  
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10. *The resistivity of a liquid crystalline organic conductor measured within the mesophase from 100 to 1000 MHz,*  
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11. *Liquid crystalline organic conductors : Studies in crystalline and mesomorphic phase,*  
V. Gionis, H. Strzelecka, M. Veber, R. Kormann and L. Zuppiroli,  
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12. *Heteroaromatic salts exhibiting thermotropic liquid crystalline properties,*  
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Molecular Crystals and Liquid Crystals 137, 373-379 (1986).
13. *Disodium S-cyanoisothiazoledithiolate as a starting material for preparation of new conductive solids,*  
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Zeitschrift für Naturforschung (Section B) 42, 1050-1051 (1987).
14. *Some Nitrogen-containing tetraheterofulvalenes and a few of their conductive salts,*  
G.C. Papavassiliou, V. Gionis, S.Y. Yiannopoulos, J.S. Zambounis, G.A. Mousdis, K. Kobayashi and K. Umemoto,  
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15. *Bis(alkylthio)tetrathiafulvalenes and a few of their salts.*  
G.C. Papavassiliou, J.S. Zambounis, G.A. Mousdis, V. Gionis, S.Y. Yiannopoulos.  
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16. *Behavior of Bis(alkylthio)tetrathiafulvalene derivatives of Langmuir-Blodgett films upon iodine exposure,*  
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23. *2,6-Dithienyl substituted pyrylium salts as precursors of functionalized Langmuir films*,  
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25. *Secondary structure of chorion proteins of the teleostean fish dentex dentex by ATR FT-IR and FT-Raman spectroscopy*,  
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26. *Soft-cuticle protein secondary structure as revealed by FT-Raman, ATR-IR and CD spectroscopy*,  
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27. *Amyloid-like fibrils from an 18-residue peptide-analogue of a part of the central domain of the B-family of silkmoth chorion proteins*,  
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29. *Use of FT-NIR spectroscopy for on-line monitoring of formaldehyde-based resin synthesis*,  
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34. *On the structure of Palygorskite by mid- and near-infrared spectroscopy*,  
V. Gionis, G.H. Kacandes, I.D. Kastriotis and G.D. Chryssikos,  
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35. *Amyloid fibril formation propensity is inherent into the hexapeptide tandemly repeating sequence of the central domain of silkmoth chorion proteins of the A-family*,  
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36. *In situ high-throughput study of drug polymorphism under controlled temperature and humidity using FTIR spectroscopic imaging*, K.L.A. Chan, S.G. Kazarian, D. Vassou, V. Gionis and G.D. Chryssikos, *Vibrational Spectroscopy* 43, 221-226 (2007).
37. *Dogfish egg case structural studies by ATR FT-IR and FT-Raman spectroscopy*, V.A. Iconomidou, M.E. Georgaka, G.D. Chryssikos, V. Gionis, P. Megalofonou and S.J. Hamodrakas, *International Journal of Biological Macromolecules* 41, 102-108 (2007).
38. *Molecular interactions between dimethoxycurcumin and PAMAM dendrimer carriers*, E. Markatou, V. Gionis, G.D. Chryssikos, S. Hatziantoniou, A. Georgopoulos and C. Demetzos, *International Journal of Pharmaceutics* 339, 231-236 (2007).
39. *Combined Near-infrared and XRD investigation of the octahedral sheet composition of palygorskite*, V. Gionis, G.H. Kacandes, I.D. Kastritis and G.D. Chryssikos, *Clays and Clay Minerals* 55, 543-553 (2007).
40. *Bone diagenesis: New data from infrared spectroscopy and X-ray diffraction*, E.T. Stathopoulou, V. Psycharis, G.D. Chryssikos and V. Gionis, *Palaeogeography, Palaeoclimatology, Palaeoecology* 266, 168-174 (2008).
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42. *A combined synchrotron powder diffraction and vibrational study of the thermal treatment of palygorskite-indigo to produce Maya blue*, M. Sanchez del Rio, E. Boccaleri, M. Milanese, G. Croce, W. van Beek, C. Tsiantos, G. D. Chryssikos, V. Gionis, G. H. Kacandes, M. Suarez, E. Garcia-Romero, *Journal of Materials Science* 44, 5524-5536 (2009).
43. *Complexation of Lysozyme with Poly(sodium(sulfamate-carboxylate)isoprene)*, M. Karayianni, S. Pispas, G.D. Chryssikos, V. Gionis, S. Giatrellis, G. Nounesis, *Biomacromolecules* 12, 1697-1706 (2011).
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45. *Trioctahedral entities in palygorskite: Near-infrared evidence for sepiolite-palygorskite polysomatism*,

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47. *Structural characterization of reduced-charge montmorillonites. Evidence based on FTIR spectroscopy, thermal behaviour, and layer-charge systematics*,  
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*Clays and Clay Minerals* 61, 83-97 (2013).
48. *Synchronous ATR infrared and NIR-spectroscopy investigation of sepiolite upon drying*,  
V. J. Bukas, M. Tsampodimou, V. Gionis, G. D. Chryssikos,  
*Vibrational Spectroscopy* 68, 51–60 (2013).
49. *Comment to the paper: Identification of indigoid compounds present in archaeological Maya blue by pyrolysis-silylation-gas chromatography-mass spectrometry (M.T. Domenech-Carbo, L. Osete-Cortina, A. Domenech-Carbo, M.L. Vazquez de Agredos-Pascual and C. Vidal-Lorenzo, J. Anal. Appl. Pyrol. 105 (2014) 355-362)*,  
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*Journal of Analytical and Applied Pyrolysis* 108, 327-328 (2014).
50. *Near-infrared investigation of folding sepiolite*,  
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*American Mineralogist* 100, 195-202 (2015).
51. *Revisiting the infrared spectrum of the water-smectite interface*,  
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52. *Measuring the layer charge of dioctahedral smectite by O-D vibrational spectroscopy*,  
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### C. PATENTS - ΔΙΠΛΩΜΑΤΑ ΕΥΡΕΣΙΤΕΧΝΙΑΣ

1. E. Dessipri, G. D. Chryssikos, V. Gionis, A. Paipetis and G. Kalousis  
*Use of Near Infrared Spectroscopy in composite panel production*  
International Publication Number WO 02/051898 A1

Abstract: Use of the Near–Infra Red spectroscopic method for monitoring the industrial production of formaldehyde resin bonded composites from the analysis of the raw materials and intermediate products (such as urea-formaldehyde concentrates) to the quality control of the final product.

2. E. Dessipri, G. D. Chryssikos, V. Gionis, A. Paipetis and G. Kalousis  
*Use of Near Infrared Spectroscopy in composite panel production*  
US6,639,044 B2 Granted 28.10.2003
3. E. Dessipri, G. D. Chryssikos, V. Gionis, A. Paipetis and P. Nakos  
*Method for assessing remaining useful life and overall quality of laminating paper*  
International Publication Number WO 02/061404 A1

Abstract: The suitability of resin-impregnated papers for composite laminates is determined by a method in which the NIR spectra are measured and compared with standard samples.

### D. ΑΗΜΟΣΙΕΥΣΕΙΣ ΣΕ ΠΡΑΚΤΙΚΑ PUBLICATIONS IN PROCEEDINGS

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2. *Spectroscopic investigation (2,2-DM-DCNQI)<sub>2</sub>M materials in bulk and thin film forms*,  
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5. *Use of FT-NIR Spectroscopy for on-line monitoring of formaldehyde-based resin synthesis*,  
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6. *Synthesis and characterization of urea-formaldehyde resins*,  
E. Minopoulou, C. Panayiotou, E. Dessipri, A. Paipetis, V. Gionis, G.D. Chryssikos in proceedings of the “*4<sup>th</sup> Hellenic Chemical Engineering Conference*”, Patras, Mai 2003, pp. 309-312
7. *Synthesis and characterization of urea-formaldehyde resins*,  
E. Minopoulou, E. Dessipri, G. D. Chryssikos, V. Gionis, A. Paipetis, C. Panayiotou in proceedings of the “*XIX Hellenic Conference of Solid State Physics and Materials Science*”, Thessaloniki, September 2004, pp. 483-486.
8. *2<sup>nd</sup> derivative Near-infrared spectroscopic investigation of hormites*,  
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9. *The genesis and geochemistry of Palygorskite clays from Western Macedonia, Greece*,  
I.D. Kastritis, G.D. Chryssikos, E. Mposkos, V. Gionis, G.H. Kacandes in “*Abstracts of the 42<sup>nd</sup> Annual Meeting of the Clay Minerals Society*”, Burlington, VT USA, June 2005, p. 62
10. *Bone diagenesis: New data from infrared spectroscopy and X-ray diffraction*,  
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13. *Preliminary structural studies of Galeus melastomus egg case by ATR FT-IR and FT-Raman*,  
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  17. *Common structural aspects of trioctahedral palygorskite and sepiolite by vibrational spectroscopy*, E.T. Stathopoulou, G.H. Kacandes, I.D. Kastritis, V. Gionis and G.D. Chryssikos in abstracts of “*Euroclay 2007*”, Aveiro, Portugal (2007), p. 13
  18. *Direct compositional evaluation of palygorskite by near-infrared spectroscopy*, G.D. Chryssikos, V. Gionis, G.H. Kacandes, M. Suarez, E. Garcia-Romero and M.Sanchez del Rio, abstracts of “*ALuSiV Conference – Aluminium and Silicon in Soils and the Environment*”, The Macaulay Institute, Aberdeen, Scotland U.K. (2008).  
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  19. *Bio-organic protein / polyelectrolytehybrids: hen egg white lysozyme complexes with sodium (sulfamate-carboxylate) isoprene polyelectrolytes*, M. Karayianni, G. Mountrichas, S. Pispas, G.D. Chryssikos, V. Gionis, abstracts of “*First International Conference on Multifunctional, Hybrid and Nanomaterials, “Hybrid Materials 2009”*”, Tours, France (2009).
  20. *Composition dependence of the unit cell dimensions of palygorskite*, E.T. Stathopoulou, M. Suarez, E. Garcia-Romero, M. Sanchez del Rio, G.H. Kacandes, V.Gionis, G.D. Chryssikos, abstracts of “*XIV International Clay Conference*”, Castellaneta M., Italy (2009), p. 351
  21. *Structure and properties of palygorskite with excess Al*, M. Suarez, E. Garcia-Romero, G.D. Chryssikos, V.Gionis, G.H. Kacandes, M. Sanchez del Rio, abstracts of “*XIV International Clay Conference*”, Castellaneta M., Italy (2009), p. 352
  22. *Near – Infrared study of synthetic Maya blue pigments*, C. Tsiantos, V. Gionis, G.H. Kacandes, G.D. Chryssikos, abstracts of “*International Conference “Clays, Clay Minerals and Layered Materials – CMLM2009”*”, Zvenigorod – Moscow Region, Russia, September 2009, p. 288

23. *Effect of acid leaching on the Structure of Palygorskite and Sepiolite*,  
G.D. Chryssikos, G.H. Kacandes and V. Gionis, abstracts of “2010 SEA-CSSJ-CMS Trilateral Meeting on Clays”, 2010 TMC, Madrid & Seville , Spain, June 2010, p. 36-37
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V. Krupskaya, L. Melchakova, M. Viggasina, G.D. Chryssikos, V. Gionis, L. Ogorodova, I. Kiseleva, abstracts of “2010 SEA-CSSJ-CMS Trilateral Meeting on Clays”, 2010 TMC, Madrid & Seville , Spain, June 2010, p. 73-74
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