

1. Papers in Refereed Journals

1. "Valence bond analysis of molecular-orbital wavefunctions: The ionicity of the $B^1\sigma_u^+$ state of H_2 ",
P. Karafiloglou, G. Theodorakopoulos and I.D. Petsalakis,
J. Mol. Struct. - Theochem 180, 31 (1988).

2. "The Rydberg states of FH_2 ",
I.D. Petsalakis, G. Theodorakopoulos, J.S. Wright and I.P. Hamilton,
J. Chem. Phys. 88, 7633 (1988).

3. "Theoretical investigation involving electronic and vibrational calculations of the $A^2A_1(3p) \rightarrow 1^2B_2(3p)$ and the $3^2A_1(4s) \rightarrow 1^2B_2(3p)$ transitions in FH_2 and FD_2 ",
I.D. Petsalakis, G. Theodorakopoulos, J.S. Wright and I.P. Hamilton,
J. Chem. Phys. 89, 6841 (1988).

4. "Non-adiabatic interactions between the $C^2\Sigma^+$ and $D^2\Sigma^+$ electronic states of HeH ",
G. Theodorakopoulos, I.D. Petsalakis,
Chem. Phys. Lett. 148, 285 (1988).

5. "Ab initio calculations on the ground and excited electronic states of KrH ",
G. Theodorakopoulos and I.D. Petsalakis,
Chem. Phys. Lett. 149, 196 (1988).

6. "Theoretical calculations on electronic-transitions for H^3 , including Rydberg and transition-state spectra",
I.D. Petsalakis, G. Theodorakopoulos and J.S. Wright,
J. Chem. Phys. 89, 6850 (1988).

7. "Classical trajectories by the Numerov method - an accuracy test",
A. Metropoulos,
Chem. Phys. Lett. 143, 538 (1988).

8. "On the stability of excited tetrahydrogen",
A. Metropoulos and C.A. Nicolaides,
J. Phys B 21, L77 (1988).

9. "Hyperridge of triply excited states",
Y. Komninou, M. Chrysos and C.A. Nicolaides,
Phys. Rev. A 38, 3182 (1988).

10. "Two-electron-jump electric-dipole oscillator-strengths in La^{48+} and La^{49+} ",
D.R. Beck and G. Asproullis,

Phys. Rev. A 38, 5925 (1988).

11. "The geometry of the Wannier two-electron ionization ladder and the corresponding spectrum",

C.A. Nicolaides, M. Chrysos and Y. Komninos,
J. Phys. B 21, L73 (1988).

12. "Polyelectronic theory of atoms in strong laser fields - CO₂-laser 7-photon ionization of H",

T. Mercouris and C.A. Nicolaides,
J. Phys. B 21, L285 (1988).

13. "The threshold effect on the lifetime of relativistically auto-ionizing metastable states - the doubly excited spectrum of the fictitious $Z = 2.05$ Atom",

C.A. Nicolaides and G. Aspromallis,
Physica Scripta 38, 55 (1988).

14. "Excited molecules and clusters in solid media - Hydrogen and tetrahydrogen in ionic-crystals",

C.A. Nicolaides, P. Valtazanos and N.C. Bacalis,
Chem. Phys. Lett. 151, 22 (1988).

15. "Complex Stark eigenvalues via analytic continuation of real high-order perturbation-series",

J.N. Silverman and C.A. Nicolaides,
Chem. Phys. Lett. 153, 61 (1988).

16. "New series of organic metal - radical salts of unsymmetrical donors containing pyrazino group",

K. Kikuchi, H. Kamio, K. Saito, S.Y. Yiannopoulos, G.C. Papavassiliou, K. Kobayashi and I. Ikemoto,
Bull. Chem. Soc. Jpn. 61, 741 (1988).

17. "Bis(Alkylthio)tetrathiafulvalenes and a few of their salts",

G.C. Papavassiliou, J. S. Zambounis, G. A. Mousdis, V. Gionis and S. Y. Yiannopoulos,
Mol. Cryst. Liq. Cryst. 156, 269 (1988).

18. "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,
Mol. Cryst. Liq. Cryst. 156, 277 (1988).

19. "Preparation and characterization of some 4,5-methylenedithio-4',5'-Bis(Alkylthio)tetrathiafulvalenes - unsymmetrical π -Donors",

G.C. Papavassiliou, G.A. Mousdis, S.Y. Yiannopoulos and J.S. Zambounis,
Chem. Scripta 28, 365 (1988).

20. "Structural and electrical-properties of some cation radical salts based on EDTTTF, PEDTTTF, and similar π -donors",
A. Terzis, A. Hountas, A.E. Underhill, A. Clark, B. Kaye, B. Hilti, C. Mayer, J. Pfeiffer, S.Y. Yiannopoulos, G. Mousdis and G.C. Papavassiliou,
Synth. Met. 27, B97 (1988).
21. "Conducting solids based on some new unsymmetrical tetraheterofulvalenes",
G.C. Papavassiliou, G.A. Mousdis, S.Y. Yiannopoulos, V.C. Kakoussis and J.S. Zambounis,
Synth. Met. 27, B373 (1988).
22. "Low temperature measurements of the electrical conductivities of some charge-transfer salts with the asymmetric donors MDT-TTF, EDT-TTF and EDT-DSDTF. (MDT-TTF)₂AuI₂, a new superconductor (T_c=3.5 K at ambient pressure)",
G.C. Papavassiliou, G.A. Mousdis, J.S. Zambounis, A. Terzis, A. Hountas, B. Hilti, C.W. Mayer and J. Pfeiffer,
Synth. Met. 27, B379 (1988).
23. "Structures of the conducting salts of pyrazinoethylenedithiotetrathiafulvalene (PEDTTTF) and dimethylpyrazinoethylenedithiotetrathiafulvalene (DMPEDTTTF): - β - (PEDTTTF)₃I₃ and β -(DMPEDTTTF)₃I₃",
V. Psycharis, A. Hountas, A. Terzis and G. Papavassiliou,
Acta Cryst. C 44, 125 (1988).
24. "Structures of the conducting salts of pyrazinoethylenedithiotetrathiafulvalene (PEDTTTF) and [4,5-b]Pyridinoethylenedithiotetrathiafulvalene ([4,5-b]PEDTTTF): - α - (PEDTTTF)₂IBr₂ and α -([4,5-b] (PEDTTTF)₂ ",
A. Terzis, V. Psycharis, A. Hountas and G. Papavassiliou,
Acta Cryst. C 44, 128 (1988).
25. "Synthesis and structure of black (EDTTTF)₂ IBr₂ - a structural analog of β - (BEDTTTF)₂X organic superconductors",
A. Terzis, A. Hountas and G. C. Papavassiliou,
Solid State Commun. 66, 1161 (1988).
26. "Resonance Raman studies in the organic conductors α -(PEDTTTF)₃I₃ and β - (PEDTTTF)₃I₃ and β -(DMPEDTTTF)₃I₃ ",
J.S. Zambounis, E.I. Kamitsos, A. Terzis and G.C. Papavassiliou,
J. Mol. Struct. 174, 189 (1988).
27. "Infrared and resonance Raman-spectroscopic studies of Ag- TCNQ",
E.I. Kamitsos,
Mol. Cryst. Liq. Cryst. 161, 335 (1988).
28. "Fluorescence and vibrational studies of charge-transfer compounds",
E.I. Kamitsos,

Synth. Met. 27, B315 (1988).

29. "Excimer laser-induced photoablation of charge-transfer thin-film materials",
E.I. Kamitsos, A.C. Cefalas, S. Spyrou and C.A. Nicolaides,
Synth. Met. 27, B581 (1988).

30. "Glass-transition phenomena and cation vibrations in alkali borate glasses",
E.I. Kamitsos, G.D. Chryssikos and M.A. Karakassides,
Phys. Chem. Glasses 29, 121 (1988).

31. "Far-infrared spectra of binary alkali borate glasses",
E.I. Kamitsos, M.A. Karakassides and G. D. Chryssikos,
Solid State Ionics 28, 687 (1988).

32. "A spectroscopic study of fluoride containing sodium-borate glasses",
E.I. Kamitsos and M.A. Karakassides,
Solid State Ionics 28, 783 (1988).

33. "Picosecond phase-conjugation by degenerate 4-wave mixing in sodium vapor",
A.C. Cefalas, T. Mikropoulos, P. Simon, J. Hebling and C.A. Nicolaides,
Appl. Phys. B 46, 363 (1988).

2. Papers in Proceedings of International and National Conferences

1. "A Raman study of trihalide-containing organic conductors",
J.S. Zambounis, E.I. Kamitsos, M.A. Karakassides and G.C. Papavassiliou,
Proc. XI Int. Conf. on Raman Spectroscopy, R.J.H. Clark, D.A. Long (Eds.), John Wiley & Sons,
London, 1988, pp. 425-426.

2. "A Raman study of the alkali cation effect on the structure of borate glasses", M.A.
Karakassides and E.I. Kamitsos,
Proc. XI Int. Conf. on Raman Spectroscopy, R.J.H. Clark, D.A. Long (Eds.), John Wiley & Sons,
London, 1988, pp. 519-520.

3. "Far-infrared study of orientation phenomena in Y-Ba-Cu-O superconductors", E.I.
Kamitsos, C. Simeonides and Th. Leventouri,
Proc. 4th Greek Conf. on Solid State Physics, Athens, 1988, pp. 407-410 (in Greek).

3. Patents

1. "Holographic Devices Employing Metallic Charge-Transfer Salts",
W.M. Risen, E.I. Kamitsos,
United States Patent, 4,727,007 (1988).