

**1. Papers in Refereed Journals**

1. "Potential energy surfaces for the photodissociation  $\text{H}_2\text{O} \rightarrow \text{O}(^1\text{D}_g + \text{H}_2(X^1\Sigma^+_g))$ ",  
G. Theodorakopoulos, C.A. Nicolaides, R.J. Buenker and S.D. Peyerimhoff,  
Chem. Phys. Lett. 89, 164 (1982).
2. "Evaluation of an upper bound of the maximal Lyapunov characteristic number by Monte-Carlo integration in the chaotic regions of phase-space",  
S.C. Farantos,  
Chem. Phys. 71, 157 (1982).
3. "Exponentially divergent trajectories and RRKM behavior of  $\text{Ar}_3$  clusters",  
S.C. Farantos,  
Chem. Phys. Lett. 92, 379 (1982).
4. "Rotational-vibrational symmetry correlations in molecular collisions. The  $\text{A}_3(\text{C}_{2v} + \text{A} \rightarrow \text{A}_2 + \text{A}_2)$  system",  
A. Metropoulos,  
Chem. Phys. Lett. 85, 199 (1982).
5. "Classical formalism for a translational rotational energy-transfer mechanism in atom diatom collisions",  
A. Metropoulos,  
Chem. Phys. Lett. 89, 405 (1982).
6. "A qualitative-analysis of individual trajectories in the rotationally inelastic LiH-He collision system",  
A. Metropoulos and D.M. Silver,  
Chem. Phys. Lett. 93, 247 (1982).
7. "Calculations of induced moments in large molecules. 1. Polarizabilities and 2nd hyperpolarizabilities in some alkanes",  
C.A. Nicolaides, M. Papadopoulos and J. Waite,  
Theor. Chim. Acta 61, 427 (1982).
8. "Calculations of induced moments in large molecules. 2. Polarizabilities and 2nd hyperpolarizabilities of some polyenes",  
M.G. Papadopoulos, J. Waite and C.A. Nicolaides,  
J. Chem. Phys. 77, 2527 (1982).
9. "Calculations of induced moments in large molecules. 3. Polarizabilities and 2nd hyperpolarizabilities of some aromatics",  
J. Waite, M.G. Papadopoulos and C.A. Nicolaides,

J. Chem. Phys. 77, 2536 (1982).

10. "Specific correlation-effects in inner-electron photo-electron spectroscopy",  
D.R. Beck and C.A. Nicolaides,  
Phys. Rev. A 26, 857 (1982).

11. "Double photoionisation of He  $1s^2 \ ^1S^e$ ",  
S.N. Tiwary,  
J. Phys. B 15, L323 (1982).

12. "Inner electron-binding energies of chemisorbed atoms",  
C.A. Nicolaides and A.N. Andriotis,  
Solid State Commun. 44, 99 (1982).

13. "Theory of seminfinite metals",  
A.N. Andriotis,  
Surf. Sci. 116, 501 (1982).

14. "Variations of the surface dipole-moment due to anisotropy and chemisorption",  
A.N. Andriotis and C.A. Nicolaides,  
Surf. Sci. 116, 513 (1982).

15. "Preparation and properties of some new 1-D solids",  
G.C. Papavassiliou,  
Mol. Cryst. Liq. Cryst. 86, 159 (1982).

16. "Synthesis and optical-properties of some new one-dimensional compounds of Pt and Pd",  
G.C. Papavassiliou and D. Layek,  
Mol. Cryst. Liq. Cryst. 86, 2071 (1982).

17. "Some new conducting solids - cation-deficient metal dimercaptodithiolenes and selenium analogs",  
G.C. Papavassiliou,  
Z. Naturforsch B 37, 825 (1982).

18. "Resonance Raman and electronic spectra of mixed-valence compounds with Ni(II)---Cl-Ni(IV) and Ni(II)---Cl-Pt(IV) chains, Ni(II)---Br-Ni(IV) and Ni(II)---Br-Pt(IV) chains",  
G.C. Papavassiliou and D. Layek,  
Z. Naturforsch. B 37, 1406 (1982).

19. "Weak peaks in the electronic-spectra of one-dimensional semiconductors with a metal-halide chain",  
G.C. Papavassiliou, R. Rapsomanikis, S. Mourikis and C.S. Jacobsen,  
J. Chem. Society - Faraday Transactions II 78, 17 (1982).

20. "Luminescence spectra and Raman excitation profiles in small CdS particles",  
G.C. Papavassiliou,  
J. Mol. Structure 79, 395 (1982).