

**1. Papers in Refereed Journals**

1. "Potential-energy curves and radiative lifetimes of Rydberg states of NaHe",  
G. Theodorakopoulos and I.D. Petsalakis,  
J. Phys. B 26, 4367 (1993).
  
2. "Diabatic potentials for the  $1^1A'$  and  $2^1A'$  states of  $H_2S$ ",  
G. Theodorakopoulos, I.D. Petsalakis and C.A. Nicolaides,  
Chem. Phys. Lett. 207, 321 (1993).
  
3. "The  $OBeH^2$  hypersurface - local and global minima, transition-states, and reaction paths",  
P. Valtazanos and C. A. Nicolaides,  
J. Chem. Phys. 98, 549 (1993).
  
4. "Structural characterization of  $ScP^+$ ",  
A. Mavridis and A. Metropoulos,  
J. Phys. Chem. 97, 10955 (1993).
  
5. "Generation of diatomic diabatic states by a general multistate rotation",  
A. Metropoulos,  
Z. Naturforsch. A 48, 577 (1993).
  
6. "The chemi-ionization reaction  $O+CH \rightarrow HCO^+ + e^-$ . Collinear O-CH approach",  
A. Metropoulos, B. Engels and S. D. Peyerimhoff,  
Chem. Phys. Lett. 204, 333 (1993).
  
7. "Lowest  $^3\Delta_u$  state of  $He^{-2}$ ",  
N.C. Bacalis,  
Phys. Rev. A 47, 5206 (1993).
  
8. "Doubly excited  $P^e$  and  $D^0$  Feshbach resonances in the Lithium isoelectronic sequence",  
M. Bylicki,  
Phys. Rev. A 48, 258 (1993).
  
9. "Computation of resonances by two methods involving the use of complex coordinates",  
M. Bylicki and C.A. Nicolaides,  
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10. "Properties of the 2-electron ionization ladder and related good quantum numbers",  
Y. Komninos, S. Themelis, M. Chrysos and C.A. Nicolaides,  
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11. "Quantitative study of multiphoton multiple ionization - 2nd-harmonic Nd:YAG laser ionization of the doubly-excited  $2p^2\ ^3P$  bound-state of H",  
T. Mercouris and C.A. Nicolaides,  
Phys. Rev. A 48, 628 (1993).
12. "Time-dependent laser-induced molecular formation from repulsive surfaces",  
T. Mercouris, I.D. Petsalakis and C.A. Nicolaides,  
Chem. Phys. Lett. 208, 197 (1993).
13. "Multielectron radiative transitions",  
C.A. Nicolaides,  
J. Phys. B 26, L291 (1993).
14. "Above and below threshold multiphoton dissociation of volcanic ground-states - application to  $BeH^{2+}$ ",  
C.A. Nicolaides, T. Mercouris and I.D. Petsalakis,  
Chem. Phys. Lett. 212, 685 (1993).
15. "Theory and computation of triply excited resonances - application to states of  $He^-$ ",  
C.A. Nicolaides, N.A. Piangos and Y. Komninos,  
Phys. Rev. A 48, 3578 (1993).
16. "Doubly-excited autoionizing states in a DC field. Widths, polarizabilities and hyperpolarizabilities of the He  $2s^2\ ^1S$  and  $2s2p\ ^3P^0$  states",  
C.A. Nicolaides and S.I. Themelis,  
J. Phys. B 26, L387 (1993).
17. "The hyperpolarizability of Li  $1s^22s\ ^2S$  - a test-case for advanced theories of electronic-properties",  
C.A. Nicolaides and S.I. Themelis,  
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18. "Theory and computation of electric-field-induced tunneling rates of polyelectronic atomic states",  
C.A. Nicolaides and S.I. Themelis,  
Phys. Rev. A 47, 3122 (1993).
19. "Radiative lifetimes of triply excited-states of the Li isoelectronic sequence",  
N.A. Piangos and C.A. Nicolaides,  
Phys. Rev. A 48, 4142 (1993).
20. "Preparation and characterization of  $(C_6H_5CH_2CH_2NH_3)_2\ SNI_4$  and  $(C_6H_5CH_2CH_2NH_3)_2\ SNBr_4$ ",  
G.C. Papavassiliou, J.B. Koutselas and D.J. Lagouvardos,  
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21. "Conducting and superconducting salts based on some symmetrical and unsymmetrical tetrachalcogenafulvalenes",  
G.C. Papavassiliou, D.J. Lagouvardos, A. Terzis, A. Hountas, B. Hilti, J.S. Zambounis, C.W. Mayer, J. Pfeiffer, W. Hofherr, P. Delhaes and J. Amiell,  
Synth. Met. 56, 2174 (1993).
22. "Spectroscopic studies of  $(C_{10}H_{21}NH_3)_2PbI_4$ ,  $(CH_3NH_3)(C_{10}H_{21}NH_3)_2Pb_2I_7$ ,  $(CH_3NH_3)PbI_3$ , and similar compounds",  
G.C. Papavassiliou, A.P. Patsis, D.J. Lagouvardos and I.B. Koutselas,  
Synth. Met. 57, 3889 (1993).
23. "Physical properties in the normal state of the molecular superconductor  $\kappa$ - $(BEDT)_2Cu_2(CN)_3$ ",  
G.C. Papavassiliou, D.J. Lagouvardos, A. Terzis, J. Amiell, C. Garrigoulagrange, P. Delhaes, B. Hilti and J. Pfeiffer,  
Synth. Met. 61, 267 (1993).
24. "Chemical relaxations of ionically conducting glasses",  
G.D. Chryssikos and E.I. Kamitsos,  
J. Mol. Liquids 56, 349 (1993).
25. "Trends in local optical basicity in sodium-borate glasses and relation to ionic mobility",  
J.A. Duffy, E.I. Kamitsos, G.D. Chryssikos and A.P. Patsis,  
Phys. Chem. Glasses 34, 153 (1993).
26. "Conducting Langmuir-Blodgett-films - a generalized-approach of the homodoping technique applied on amphiphilic tetracyanoquinodimethane (TCNQ) salts",  
O. Fichet, B. Agricole, J. Amiell, V. Gionis and P. Delhaes,  
Comptes Rendus de l' Academie des Sciences Serie II 316, 335 (1993).
27. "Infrared reflectance investigation of alkali diborate glasses",  
E.I. Kamitsos, A.P. Patsis and G.D. Chryssikos,  
J. Non-Cryst. Solids 152, 246 (1993).
28. "Anomalous expansion of sodium triborate melt and its effect on glass properties",  
W.C. Huang, H. Jain, E.I. Kamitsos and A.P. Patsis,  
J. Non-Cryst. Solids 162, 107 (1993).
29. "Infrared-reflectance spectra of heat-treated, sol-gel-derived silica",  
E.I. Kamitsos, A.P. Patsis and G. Kordas,  
Phys. Rev. B 48, 12499 (1993).
30. "On the development of new VUV and UV solid-state laser sources for photochemical applications",  
A.C. Cefalas, M.A. Dubinskii, E. Sarantopoulou, R.Y. Abdulsabirov, S.L. Korableva, A. K. Naumov, V.V. Semashko and C.A. Nicolaidis,

Laser Chem. 13, 143 (1993).

<b>2. Papers in Proceedings of International and National Conferences</b>
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1. “Raman spectroscopic study of superionic glasses  $x\text{AgI} \cdot (1-x)\text{Ag}_2\text{MoO}_4$  under high pressure”,

Y.S. Raptis, C. Raptis, E.I. Kamitsos, G.D. Chryssikos and J.A. Kapoutsis,  
Proc. IX Greek Conf. on Solid State Physics, Patras, 1993, pp. 361-365 (in Greek).

2. “The role of praseodymium on the superconductivity of  $\text{ReBa}_2\text{Cu}_3\text{O}_7$  and  $\text{Pr}_{0.5}\text{Re}_{0.5}\text{Ba}_2\text{Cu}_3\text{O}_7$  superconductors”,

G.D. Chryssikos, E.I. Kamitsos, J.A. Kapoutsis, A.P. Patsis, A. Koufoudakis, V. Psycharis, C. Mitros, G. Kallias, E. Gamari-Seale and D. Niarchos,  
Proc. IX Greek Conf. on Solid State Physics, Patras, 1993, pp. 402-406 (in Greek).