

ANTONIOS N. ANDRIOTIS

Publications in refereed journals and proceedings of International Conferences:

A. Until 2004

Papers

1. "Magnetic phases of the Hubbard model"
A.N.Andriotis, P.N.Poulopoulos and E.N.Economou,
Solid State Communicatuions **39**, 1175 (1981).
2. "Off-diagonal disorder and the metal-insulator transition in impurity bands in semiconductors"
A.C.Fertis,A.N.Andriotis and E.N.Economou,
Phys. Rev.B**24**, 5806 (1981).
3. "Theory of Semi-Infinite Metals"
A.N.Andriotis,
Surface Science, **116**, 501 (1982).
4. "Variations of the surface dipole moment due to anisotropy and chemisorption"
A.N.Andriotis and C.A.Nicolaides,
Surface Science, **116**, 513 (1982).
5. "Inner electron binding energies of chemisorbed atoms"
C.A.Nicolaides and A.N.Andriotis,
Solid State Commun., **44**, 99 (1982).
6. "Photoelectron Spectroscopy of Chemisorbed Atoms"
C.A.Nicolaides and A.N.Andriotis,
Int.Journal of Q.Chem., **23**, 561 (1983).
7. "Incorporation of lattice effects in surface energy calculations"
A.N.Andriotis,
Surface Science, **138**, 269 (1984).
8. "Angular dependence of the X-ray Raman scattering intensity from polycrystals"
A.N.Andriotis and C.A.Londos,
Solid State Commun., **49**, 213 (1984).
9. "State-specific,many-electron theory of core levels in metals:the 1s binding energy of Be metal"
C.A.Nicolaides,A.D.Zdetsis and A.N.Andriotis,
Solid State Commun., **50**, 857 (1984).
10. "Interaction of Argon with the Al(100) surface"
A.N.Andriotis and C.A.Nicolaides,
Solid State Commun., **51**, 251 (1984).
11. "Exchange energy contribution to the interaction of helium with a metal surface"
A.N.Andriotis,
Phys. Rev. B**31**, 4003 (1985).
12. "Work Function changes due to surface anisotropy and imperfections"
A.N.Andriotis,
Phys. Rev. B**32**, 5062, (1985).

13. "Analytic approach to the equation of Esbjerg and Norskov"
 A.N.Andriotis,
*Phys. Rev. B***33**, 1482 (1986).
14. "Theory of short-range order in binary metal alloys using the coherent potential approximation"
 A.N.Andriotis and J.E.Lowther,
J. Phys. F: Met. Physics, **16**, 1189 (1986).
15. "Pseudopotential approach to the embedding of Helium atoms in metallic jellium"
 A.N.Andriotis,
Solid State Communications, **59**, 761 (1986).
16. "Analytic CPA approach to non-stoichiometric PdH : I"
 A.N.Andriotis,
J. Phys. F: Metal Physics **17**, 75 (1987).
17. "Dressed-Atom approach to embedding and physisorption in metals"
 A.N.Andriotis and C.A.Nicolaides,
*Phys. Rev. B***35**, 2583 (1987).
18. "Directionality of the metallic bonding in Titanium Carbide"
 J.E.Lowther and A.N.Andriotis,
J. Phys. Chem. Solids, **48**, 713 (1987).
19. "Verification of the Esbjerg-Norskov relation from small-cluster calculations"
 A.N.Andriotis,
Phys. Rev.B **36**, 4469 (1987).
20. "Generalized coherent potentials and the cluster Bethe lattice"
 A.N.Andriotis and J.E.Lowther,
South-African Journal of Physics, **10**, 135 (1987).
21. "Non-local Hartree-Fock Approach to Embedding"
 A.N.Andriotis,
Jour.of Physics : Condensed Matter **2**, 1021 (1990).
22. "Alkali-metal-atom chemisorption onto a metal surface"
 A.N.Andriotis,
*Phys. Rev. B***42**, 9217 (1990).
23. "Impurity atoms/ions embedded in metals"
 A.N.Andriotis,
Europhysics Letters **17**, 349 (1992).
24. "Single Impurity Calculations using the Quadratic Korringa-Kohn-Rostoker method"
 A.N.Andriotis, J.S.Faulkner and Y.Wang,
Solid State Communications **84**, 267-269 (1992).
25. "Local Spin clustering and Phase Separation in the Hubbard Model"
 A.N.Andriotis,E.N.Economou, and C.M.Soukoulis,
Journ.of Physics : Condensed Matter **5**, 4505 (1993).
26. "The Bimetallic Interface : A periodic planar jellium approach "
 A.N.Andriotis,
*Phys. Rev. B***47**, 6772 (1993).
27. "The Complex Hamiltonian Approach "
 A.N.Andriotis,
Jour. of Phys.: Condens.Matter **4**, L633 (1992).

28. "Phase Separation in the Hubbard Model"
A.N.Andriotis,E.N.Economou,Qiming Li and C.M.Soukoulis,
Phys. Rev B**47**, 9208 (1993).
29. "The applicability of scaling laws in Tight-Binding Molecular Dynamics "
N.Lathiotakis and A.N.Andriotis,
Solid State Communications **87**, 871 (1993).
30. "Tight-Binding Molecular Dynamics Study of Transition Metal Clusters "
M.Menon,J.Connolly,N.Lathiotakis and A.N.Andriotis,
Phys. Rev B**50**, 8903 (1994).
31. "Structure and stability of Ni clusters : A Tight-Binding Molecular Dynamics study"
N.N.Lathiotakis,A.N.Andriotis,M.Menon and J.Connolly,
Europhysics Letters **29**, 135 (1995).
32. "The Scaling of the Tight-Binding Hamiltonian"
A.N.Andriotis,
J. of Phys.: Condens. Matter, **7**, L61, (1995).
33. "Periodic Planar Jellium Approximation to Implanted Metal Sufraces"
A.N.Andriotis,
Computational Materials Science, **4**, 93 (1995).
34. "Electronic Structure and Optical Properties of Si/Ge Superlattices"
I.A.Papadogonas,A.N.Andriotis and E.N.Economou,
Europhysics Letters **31**, 113 (1995).
35. "Tight Binding Molecular Dynamics Study of Ni Clusters"
N.N.Lathiotakis,A.N.Andriotis,M.Menon and J.Connolly,
J. Chem. Phys. **104**, 992 (1996).
36. "Magnetic properties of Ni and Fe clusters : A Tight-Binding Molecular Optomization Study"
A.N.Andriotis, N. Lathiotakis and M.Menon,
Chem. Phys. Letters **260**, 15 (1996).
37. " Magnetic Properties of Clusters of Transition Metal Atoms "
A.N.Andriotis, N.N.Lathiotakis and M.Menon,
Europhysics Letters **36**, 37 (1996).
38. " Dependence of onset optical absorption on interface diffuion in Si(m)Ge(n) superlattices "
I.A.Papadogonas, A.N.Andriotis and E.N.Economou,
Phys. Rev. B**55**, R4887 (1997).
39. " Optical properties of Si(m)Ge(n) superlattices : a CPA treatment of the interface diffusion "
I.A.Papadogonas, A.N.Andriotis and E.N.Economou,
Phys. Rev. B**55**, 10760 (1997).
40. " The Reconstruction of the Si(110) Surface and its Interaction with Si Adatoms "
M.Menon, N.Lathiotakis and A.N.Andriotis,
Phys. Rev. B**56**, 1412, (1997).
41. " Utilization of Locally Shifted Potentials in Approximate Electronic Structure Calculations "
D.Zaharioudakis, J.S.Faulkner and A.N.Andriotis,
J. of Physics : Condens. Matter **10**, 1813 (1998).

42. " Tight-Binding Molecular-Dynamics Study of Ferromagnetic Clusters " A.Andriotis and M.Menon, Phys. Rev. **B57**, 10069 (1998).
43. " A Tight-Binding Molecular Dynamics study of Ni(m)Si(n) binary clusters " A.N. Andriotis, M. Menon, G.E.Froudakis, Z. Fthenakis and J.E.Lowther, Chem. Phys. Letters, **292**, 487 (1998).
44. " LDA exchange-energy functional " A.N. Andriotis, Phys. Rev. **B58**, 15300 (1998).
45. " Self-consistent Tight-Binding Molecular Dynamics Method for cluster studies " A.N Andriotis and M. Menon, Phys. Rev. **B59**, 15942 (1999).
46. " Tight-Binding Molecular Dynamics Study of Transition metal Carbide Clusters " A.N.Andriotis, M.Menon, G.E.Froudakis and J.E.Lowther, Chem. Phys. Letters, **301**, 503 (1999).
47. " Tight Binding Molecular Dynamics Study of Heteronuclear systems : Application to Si(m)Ge(n) clusters " A.N. Andriotis, M. Menon and G.E.Froudakis, J. of Cluster Science, **10**, 549 (1999).
48. " Geometry and bonding in small (C₆₀)_nNi_m clusters" A.N.Andriotis and M.Menon, Phys. Rev. **B60**, 4521 (1999).
49. "Curvature dependence of the metal catalyst atom interaction with carbon nanotubes walls" M.Menon, A.N.Andriotis and G.E.Froudakis, Chem. Phys. Lett. **320**, 425 (2000).
50. "Anomalous temperature dependence of the single wall carbon nanotubes resistivity" A.N.Andriotis, M.Menon and G.E.Froudakis, Phys. Rev. **B61**, R13393 (2000).
51. "Contrasting bonding behaviors of 3-d transition metal atoms with graphite and C60" A.N.Andriotis, M.Menon and G.E.Froudakis, Phys. Rev. **B62**, 9867 (2000).
52. "Various bonding configurations of transition-metal atoms on carbon nanotubes : Their effect on contact resistance" A.N.Andriotis, M.Menon and G.E.Froudakis, Appl. Phys. Lett. **76**, 3890 (2000).
53. "Catalytic action of Ni atoms in the formation of carbon nanotubes : A combined ab-initio and molecular dynamics study" A.N.Andriotis, M.Menon and G.Froudakis, Phys. Rev. Letters, **85**, 3193 (2000).
54. "Rectification properties of carbon nanotube Y-junctions" A.N.Andriotis, M.Menon, D.Srivastava and L.Chernozatonskii, Phys. Rev. Lett. **87**, 066802 (2001).
55. "Ballistic switching and rectification in single wall carbon nanotube Y-junctions" A.N.Andriotis, M.Menon, D.Srivastava and L.Chernozatonskii, Appl. Phys. Lett. **79**, 266, (2001).

56. "Green's function embedding approach to quantum conductivity of single wall carbon nanotubes"
A.N.Andriotis and M.Menon,
J. Chem. Phys., **115**, 2737 (2001).
57. "Extreme hydrogen sensitivity of the transport properties of single wall carbon nanotubes"
A.N.Andriotis, M.Menon, D.Srivastava and G.Froudakis,
Phys. Rev. B **64**, 193401 (2001).
58. "Structural properties of metal-benzene, M(n)-Benzene(m), M= Ni, V complexes : An ab initio study"
G.E.Froudakis, A.N.Andriotis and M.Menon,
Chem. Phys. Lett., **350**, 393 (2001).
59. "Ground state geometry of small Ni-C clusters"
G.E.Froudakis, M.Muhlhauser, A.N.Andriotis and M.Menon,
Phys. Rev. B **64**, 241401(R) (2001).
60. "Structure and stability of Ni-encapsulated Si nanotube"
M.Menon, A.N.Andriotis and G.Froudakis,
Nanoletters, **2**, 301 (2002).
61. "Transport properties of Single Wall Carbon Nanotube Y-Junctions"
A.N.Andriotis, M.Menon, D.Srivastava and L.Chernozatonskii,
Phys. Rev. B **65**, 165416 (2002).
62. "Transfer Matrix Approach to Quantum Conductivity Calculations in Single Wall Carbon Nanotubes"
A.N.Andriotis, M.Menon and D.Srivastava,
J. Chem. Phys. **117**, 2836 (2002).
63. "Stabilization of Si-based cage clusters and nanotubes by encapsulation of transition metal atoms"
A.N.Andriotis, G.Mpourmpakis, G.E.Froudakis and M.Menon
New J. Phys., **4**, 78 (2002).
64. "Magnetic properties of C₆₀ polymers"
A.N.Andriotis, M.Menon, R.M.Sheetz and L.Chernozatonskii
Phys. Rev. Lett., **90**, 026801 (2003).
65. "Nonlinear Resistance Dependence on Length in Single Wall Carbon Nanotubes"
A.N.Andriotis, M.Menon and L.Chernozatonskii
Nanoletters, **3**, 131 (2003).
66. "Temperature evolution of structural and magnetic properties of transition metal clusters"
Z.Fthenakis, A.N.Andriotis and M.Menon
J. Chem. Phys. **119**, 10911 (2003)
67. "Pathways for Oxygen adsorption on Single Wall Carbon Nanotubes"
G.E.Froudakis, M.Schnell, M.Muhlhauser, S.D.Peyerimhoff, A.N.Andriotis, M.Menon
and R.M.Sheetz,
Phys. Rev. B **68**, 115435 (2003).
68. "Fe encapsulation by Si clusters"
G.Mpourmpakis, G.E.Froudakis, A.N.Andriotis and M.Menon
Phys. Rev. B **68**, 125407 (2003).

69. "Understanding the structure of metal encapsulated Si cages and nanotubes"
 G.Mpourmpakis, G.E.Froudakis, A.N.Andriotis and M.Menon
J. Chem. Phys. **119**, 7498 (2003).
70. "Comment on 'Intrinsic electron transport properties of carbon nanotube Y-junctions'
 [Appl. Phys. Lett., **81**, 5234 (2002)]"
 A.N.Andriotis and M.Menon
Appl. Phys. Lett., **82**, 1, (2003).
71. Carbon nanotube T-junctions : Formation pathways and conductivity"
 M.Menon, A.N.Andriotis and D.Srivastava
Phys. Rev. Lett., **91**, 145501 (2003).
72. "Formation pathways of single-wall carbon nanotubes multiterminal junctions"
 I.Ponomareva, L.A.Chernozatonskii, A.N.Andriotis and M.Menon
New Journal of Phys., **5**, 1.1-1.12 (2003).
73. "Structure and stability of SiC nanotubes"
 M.menon, E.Richter, A.Mavrantonakis, A.N.Andriotis and G.Froudakis
*Phys. Rev. B***69**, 115322 (2004).
74. "Degradation of inter-atomic bonds during structural phase change in intermediate Ni-clusters"
 A.N.Andriotis and M.Menon
J. Chem Phys. **120**, 230 (2004).
75. "Magnetic enhancement and magnetic reduction in binary clusters of transition metal atoms"
 A.N.Andriotis, G.Mpourmpakis, G.E.Froudakis and M.Menon
J. Chem Phys. **120**, 11901 (2004).
76. "Orbital magnetism : Pros and cons for enhancing the cluster magnetism"
 A.N.Andriotis and M.Menon
Phys. Rev. Lett., **93**, 026402 (2004).
77. "State specific RKKY interaction in small magnetic clusters"
 A.N.Andriotis, G.Mpourmpakis, G.E.Froudakis and M.Menon
*Phys. Rev. B***70**, 104421 (2004).

Proceedings Chapters in Books

- (i) "Cluster Bethe lattice approach to chemically disordered alloys with short range order"
 A.N.Andriotis and J.E.Lowther,
 in "Alloy Phase Stability" Edited by G.M.Stocks and A.Gonis,NATO-ASI Series E:Vol.163 Kluwer Academic Publishers, p.357 (1989).
- (ii) "The Hubbard Model for n = 1 : Preliminary results"
 A.N.Andriotis,Q.Li,C.M.Soukoulis and E.N.Economou,
 in "Dynamics of Magnetic Fluctuations in High- Temperature Superconductors",Edited by G.Reiter, P.Horsch and G.C.Psaltakis Plenum,NY, p.267 (1991).
- (iii) " The charge on a single impurity in a metal "
 D.Zaharioudakis, J.S.Faulkner and A.N.Andriotis,

- Proceedings of the 1st International Alloy Conference, Athens 1996, edited by A.Gonis, A.Meike and P.Turchi Plenum Press , p.479 (1997).
- (iv) " Study of magnetic clusters using a tight-binding molecular dynamics approach "
A.N.Andriotis, N.Lathiotakis and M.Menon,
Proceedings of the 1st International Alloy Conference, Athens 1996, to be edited by A.Gonis, A.Meike and P.Turchi Plenum Press, p. 261 (1997).
- (v) "Transition metal atoms on nanocarbon surfaces"
A.N.Andriotis and M.Menon
Encyclopedia of Nanoscience and Nanotechnology,
edited by H.S.Nalva, vol. 10, p.509-517 (2004).

B. 2005-2012

Papers

78. "Are s-p- and d-ferromagnetism of the same origin ? "
A.N.Andriotis, R.M.Scheetz and M.Menon
J. Phys. Condens. Matter, **17**, L35 (2005).
79. "Role of Co in enhancing the magnetism of small Fe clusters"
G.Mpourmpakis, G.E.Froudakis, A.N.Andriotis and M.Menon,
Phys. Rev. B**72**, 104417 (2005).
80. "Transport properties of carbon nanotubes with odd-numbered carbon rings"
S.Lisenkov, A.N.Andriotis, I.Ponomareva and M.Menon,
Phys. Rev. B**72**, 113401 (2005).
81. "Defect-originated magnetism in carbon-based and non-traditional inorganic compounds : A new class of magnetic materials"
A.N.Andriotis, R.M.Sheetz, E.Richter and M.Menon
Europhys. Letters, **72**, 658 (2005).
82. "Carbon-nanotube tips with edge made of a transition metal"
G.Mpourmpakis, G.E.Froudakis, A.N.Andriotis and M.Menon,
Appl. Phys. Lett., **87**, 193105 (2005).
83. "Structure and stability of small diameter silicon nanowires"
I.Ponomareva, M.Menon, D.Srivastava and A.N.Andriotis,
Phys. Rev. Lett., **95**, 265502 (2005).
84. "Structural stability, electronic properties, and quantum conductivity of small-diameter silicon nanowires"
I.Ponomareva, M.Menon, E.Richter and A.N.Andriotis,
Phys. Rev. B**74**, 125311 (2006).
85. "Silicon carbide nanotube tips : Promising materials for atomic force microscopy and/or scanning tunneling microscopy",
A.Mavrandakis, G.E.Froudakis, A.N.Andriotis and M.Menon,
Appl. Phys. Lett., **89**, 123126 (2006).
86. "Doping and the unique role of vacancies in promoting the magnetic ground state in carbon nanotubes and C₆₀ polymers",
A.N.Andriotis, R.M.Sheetz and M.Menon,
Phys. Rev. B**74**, 153403 (2006).

87. "Are electrical switching and rectification inherent properties of carbon nanotube Y junctions ? ",
A.N.Andriotis and M.Menon,
Appl. Phys. Lett., **89**, 132116 (2006).
88. "Theoretical study of the effect of temperature on the magnetism of transition metal clusters",
A.N. Andriotis, Z.G. Fthenakis and M. Menon,
Europhysics Letters, **76**, 1088 (2006)
89. "Correlated variation of Melting and Curie temperatures of Ni-clusters",
A.N.Andriotis, Z.G.Fthenakis and M.Menon,
*Phys. Rev. B***75**, 073413 (2007)
90. "Enhancement of the ionization potential of K and Rb upon chemisorption on a C60 molecule",
G.Mpourmpakis, G.E.Froudakis, A.N.Andriotis and M.Menon,
J. Phys. Chem. C Letters, **111**, 6593-6596 (2007).
91. "Structural and conducting properties of metal carbon-nanotube contacts : Extended molecule approximation",
A.Andriotis and M.Menom,
*Phys. Rev. B***76**, 045412 (2007).
92. "Strong dependence of transport properties of metal-semiconductor-metal graphene ribbons on their geometrical features",
A.N.Andriotis, E.Richter and M.Menon,
Appl. Phys. Lett., **91**, 152105 (2007).
93. "Oscillatory Band Gap behavior in Small Diameter Si-Clathrate Nanowires",
M.Menon, I.Ponomareva, E.Richter and A.N.Andriotis,
NanoLetters, **7**, 3424 (2007).
94. "Transport properties of branched graphene nanoribbons",
A.N.Andriotis and M.Menon,
Appl. Phys. Lett., **92**, 042115 (2008).
95. "Realistic nanotube-metal contact configuration for molecular electronics applications",
A.N.Andriotis, M.Menon and H.Gibson,
IEEE Sensors Journal, Vol.8, p.910 (2008).
96. "Surface conductivity of hydrogenated diamond films",
A.N.Andriotis, Giannis Mpourmpakis, Ernst Richter and M.Menon,
Phys. Rev. Lett., **100**, 106801 (2008).
97. "Codoping : A possible pathway for inducing ferromagnetism in ZnO",
N.N.Lathiotakis, A.N.Andriotis and M.Menon,
*Phys. Rev. B***78**, 193311 (2008).
98. "Electronic transport in metal-soldered carbon nanotube multiterminal junctions",
A.N.Andriotis and M.Menon,
*Phys. Rev. B***78**, 235415 (2008).
99. "Tailoring the induced magnetism in carbon-based and non-traditional inorganic nanomaterials",
A.N.Andriotis, R.M.Sheetz, N.N.Lathiotakis and M.Menon,
Int. J. Nanotechnology, **6**, 164 (2009).

100. "Defect-induced optical absorption in the visible range in ZnO nanowires", R.Michael Sheetz, Inna Ponomareva, Ernst Richter, Antonis N. Andriotis and Madhu Menon, Phys. Rev., B **80**, 195314 (2009).
101. "Structural, electronic, and magnetic properties of nanometer-sized iron-oxide atomic clusters: Comparison between GGA and GGA+U approaches", K.Palotas, A.N.Andriotis and A.Lappas, Phys. Rev. B**81**, 075403 (2010).
102. "Defect-induced defect-mediated magnetism in ZnO and carbon-based materials, Antonis N Andriotis, R Michael Sheetz, and Madhu Menon, J. Phys.: Condens. Matter, **22**, 324210 (2010).
103. "Identification of Descriptors for the CO Interaction with Metal Nanoparticles, Giannis Mpourmpakis, Antonis N. Andriotis, and Dionisios G. Vlachos, Nano Letters, **10**, 1041 (2010) (2010). DOI:10.1021/nl904299c.
104. "LSDA+U method: A calculation of the U-values at the Hartree-Fock level of approximation", Antonis N Andriotis, R Michael Sheetz, and Madhu Menon, Phys. Rev. B **81**, 245103 (2010).
105. "Magnetic graphene: A new class of cages formed from graphene sheets and carbon nanotubes", Sergey Lisenkov, Antonis N. Andriotis and Madhu Menon, Phys. Rev. B **82**, 165454 (2010).
106. "Ferromagnetic interactions in hosted bipartite materials - Generalized-double-exchange and generalized-superexchange interactions", Antonis N. Andriotis, Sergey Lisenkov and Madhu Menon, J. Phys. Condens. Matter, **23**, 086004 (2011).
107. "Effects of co-doping on the ferromagnetic enhancement in ZnO", Sergey Lisenkov, Antonis N. Andriotis, R. Michael Sheetz and Madhu Menon, Phys. Rev. B **83**, 235203 (2011).
108. "Magnetic coupling in dilute magnetic semiconductors: A new perspective", Antonis N. Andriotis and Madhu Menon, phys. st.sol. (b) **248**, 2032 (2011); DOI 10.1002/pssb.201147120.
109. "Visible-light absorption and large band-gap bowing of GaN(1-x)Sb(x) from first principles", R.M.Sheetz, E.Richter, A.N.Andriotis, S.Lisenkov, C.Pendyala, M.K.Sunkara and M.Menon, Phys. Rev. B **84** 075304 (2011).
110. "Symmetry-Switching Molecular Fe(O₂)_n Clusters", Giannis Mpourmpakis, Michalis Velegrakis, Claudia Mihsan, and Antonis N. Andriotis, J. Phys. Chem. A, **115**, 7456.7460 (2011).
111. "Predicting the Adsorption Behavior in Bulk from Metal Clusters", Giannis Mpourmpakis, Michail Stamatakis, Stanley Herrmann, Dionisios G. Vlachos and Antonis N. Andriotis, Chem. Phys. Lett., **518**, 99 (2011).
112. "Magnetic anisotropy and engineering of magnetic behavior of the edges in Co embedded graphene nanoribbons,

Sergey Lisenkov, Antonis N. Andriotis, and Madhu Menon,
Phys. Rev. Lett., **108**, 187208 (2012).

113. "Electronic structure, optical properties and electronic conductivity of Silicon Carbide Nanowires",
A.N.Andriotis, E.Richter, S. Lisenkov, R.M.Sheetz and M.Menon,
Journal of Computational and Theoretical Nanoscience, **9**, 2008 (2012).
114. "The synergistic character of the defect-induced magnetism in diluted magnetic semiconductors and related magnetic materials",
Antonis N Andriotis and Madhu Menon,
J. Phys. Condens.Matter, **24**, 455801 (2012) doi:10.1088/0953-8984/24/45/455801.

Proceedings and Chapters in Books

- (i) "The magnetism of the polymerized C60 materials"
A.N.Andriotis and M.Menon
Clusters and nanoassemblies : Physical and Biological Systems,
Edited by P.Jena, S.K.Khanna and B.K.Rao, Word Scientific (Singapore 2005).
- (ii) "McConnell model for the Magnetism of C60-based polymers"
A.N.Andriotis, M.Menon, R.M.Sheetz and E.Richter,
In "Carbon based Magnetism", Edited by T.L.Makarova and F.Palacio,
Elsevier, p.483 (2006).
- (iii) "Structural, electronic, magnetic and transport properties of carbon-fullerene-based polymers,"
A.N.Andriotis, R.M.Sheetz, E.Richter and M.Menon,
The Oxford Handbook of Nanoscience and Technology,
Oxford University Press,
Edited by A.V.Narlikar and Y.Y.Fu,
Vol. II, p.745 (2010).
- (iv) "Variation of the Surface to Bulk Contribution to Cluster Properties",
Antonis N. Andriotis, Zacharias Fthenakis and Madhu Menon,
in Handbook of Computational Chemistry, J. Leszczynski (ed.), DOI
10.1007/978-94-007-0711-5_26,
Springer-Verlag Berlin Heidelberg (2011).
- (v) "Molecular Orbital Description of the Magnetic Coupling in Dilute Magnetic Semiconductors",
A. N. Andriotis and M. Menon,
Fourth International Congress on Computational Mechanics and Simulation (ICCMS-2012).