

## CURRICULUM VITAE

**NAME** : MATTHEOS KAMARATOS

: ACOSSIAE PROFESSOR

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**(work)** : UNIVERSITY OF IOANNINA, DEPARTMENT OF  
PHYSICS, 451 21 IOANNINA  
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**YEAR OF BIRTH** : 9 DECEMBER 1955

**PLACE OF BIRTH** : VRACHASI LASITHIOU CRETE HELLAS

**STUDIES** : BACHELOR DEPARTMENT OF PHYSICS  
UNIVERSITY OF IOANNINA 1977  
:PHD DEPARTMENT OF PHYSICS UNIVERSITY  
OF IOANNINA 1983

**OCCUPATION** : SCHOLARSHIP N.I.R. OKT. 1977 - SEPT. 1979  
RECEARCH ASSIST OKT. 1979 - APR. 1986  
LECTURER UI APR. 1986 - FEBR. 1991  
ASSISTANT PROFESS FEBR. 1991 - 2002  
ACOSSIAE PROFESS 2002-TODAY

**TEACHING** UNIVERSITY OF IOANNINA,:

1. GENERAL PHYSICS I (MECHANICS, ELECTROMAGNETIC)
2. THERMODYNAMICS
3. LABORATORY (MECHANICS)
4. EXPERIMENTAL METHODS OF PHYSICS
5. PHYSICOCHEMISTRY

6. ELECTRONICS
7. SOLID STATE PHYSICS I AND II
8. EXPERIMENTS IN PHYSICS FOR EDUCATION

**BOOKS AND e-COURSE NOTES:**

1. EXPERIMENTAL METHODS OF PHYSICS  
(BASIC TECHNIQS FOR STUDY SOLID STATE SURFACES)
2. INTRODUCTION TO THE ANALYSIS OF EXPERIMENTAL MEASUREMENTS-SIMPLE EXPERIMENTS OF MECHANICS AND THERMAL PHYSICS
3. INTRODUCTION ON SOLID STATE PHYSICS
4. SOLID STATE PHYSICS (ASCHROFT-MERMIN) TRANSLATION ED. PNEVMATIKOS, ATHENS 2012
5. MECHANICS
6. THERMODYNAMICS
7. HEAT AND THERMODYNAMICS (ZEMANSKY-DITTMAN)  
TRANSLATION ED. PNEVMATIKOS, ATHENS 2015
8. ELEMENTS ON PROPABILITY AND STATISTICS

**RESEARCH**

A. PhD

"Adsorption of metals on basal plane of MoS<sub>2</sub>"

B. PAPERS

1. "Variation of Electron Energy Loss Spectra of Ni(100) with increasing Primary Energy"  
M. Kamaratos and C.A. Papageorgopoulos  
Solid State Commun., **46** (1983) 899-902
2. "A Study of the Behavior of Fe and Ni on MoS<sub>2</sub>"  
M. Kamaratos and C.A Papageorgopoulos  
Solid State Commun., **49** (1984) 715-718
3. "Adsorption Properties of Fe on MoS<sub>2</sub>"  
M. Kamaratos and C.A. Papageorgopoulos  
Surface Science **160** (1985) 451
4. "Adsorption Studies of Ni on MoS<sub>2</sub> and Oxygen on Ni-Covered MoS<sub>2</sub>"  
C.A. Papageorgopoulos and M. Kamaratos  
Surface Science **164** (1985) 353
5. "Adsorption Studies on Ar<sup>+</sup> Sputtered MoS<sub>2</sub>(0001)"

- M. Kamaratos and C.A. Papageorgopoulos  
Surface Science **178** (1986) 865
6. "Intercalation of MoS<sub>2</sub>(0001) with Fe, Ni and Pd"  
M. Kamaratos and C.A. Papageorgopoulos  
Solid State Commun., **61** (1987) 567
7. "Adsorption Studies of Pd on MoS<sub>2</sub>"  
M. Kamaratos and C.A. Papageorgopoulos  
Applied Surface Science **29** (1987) 279-286
8. "The Adsorption of Cs on WSe<sub>2</sub>"  
S. Ladas, S. Kennou, M. Kamaratos, S.D. Foulis and C.A. Papageorgopoulos  
Surface Science **189/190** (1987) 261-267
9. "The Effect of Cs on the Adsorption of H<sub>2</sub> on Mo(110)"  
M-L.Ernst-Vidalis, M. Kamaratos and C.A. Papageorgopoulos  
Surface Science **189/190** (1987) 276-284
10. "The Effect of Cs on the Oxidation of Si(111) Surfaces"  
C. Papageorgopoulos, S. Foulis, S. Kennou and M. Kamaratos  
Surface Science **211/212** (1989) 991-1000
11. "The Influence of Steps on the Adsorption of Cs on Si(100)"  
S. Kennou, M. Kamaratos, S. Ladas and C.A. Papageorgopoulos  
Surface Science **216** (1989) 462-471
12. "The Effect of Steps on the Oxidation of a Cesium Si(100)2x1"  
M. Kamaratos, S. Kennou, S. Ladas and C.A. Papageorgopoulos  
Journal Physics C: Cond. Matter **1** (1989) 6071
13. "Simultaneous Coadsorption of Cs and O<sub>2</sub> on Si(100)2x1 surfaces"  
M. Kamaratos and C.A. Papageorgopoulos  
Surface Science **219** (1989) 317-326
14. "Adsorption of Cs and its Effects on the Oxidation of the Ar<sup>+</sup> Sputtered Si(100)2x1 Substrate"  
C.A. Papageorgopoulos and M. Kamaratos  
Surface Science **221** (1989) 263-276
15. "Adsorption of K on clean and Hydrogenated Si(100)2x1 Surfaces"  
C.A. Papageorgopoulos and M. Kamaratos  
Vacuum **41**(1990) 567-570

16. "Potassium Adsorption on NiO(100)"  
S. Kennou, M. Kamaratos and C.A. Papageorgopoulos  
Vacuum **41**(1990) 22-24
17. "The Coadsorption of Cs and K on Si(100)"  
M. Kamaratos, S. Kennou and C.A. Papageorgopoulos  
Surface Science **227** (1990) 43-49
18. "Cesium and Oxygen Adsorption on NiO(100)"  
S. Kennou, M. Kamaratos and C.A. Papageorgopoulos  
Surface Science **256** (1991) 312
19. "The behavior of K on the basal plane of MoS<sub>2</sub>"  
C.A. Papageorgopoulos, M. Kamaratos, S. Kennou and D. Vlachos  
Surface Science **251/252** (1991) 1057
20. "The interaction of Cs with the GaAs(100) surfaces"  
M. Kamaratos and E. Bauer  
J. Appl. Phys. **70/12** (1991) 7564
21. "The Behavior of Na on 1x1 and 7x7 Structures of Si(111) and its Effect on the Oxidation of these Structures"  
C. Papageorgopoulos and M. Kamaratos  
Journal of Phys.-Condensed Matter **4** (1992) 1935
22. "Coadsorption of K and O<sub>2</sub> on MoS<sub>2</sub>(0001)"  
C.A. Papageorgopoulos, M. Kamaratos, S. Kennou and D. Vlachos  
Surface Science **277** (1992) 273
23. "Adsorption of Cs on WSe<sub>2</sub> Van der Waals Surfaces: Temperature and Sputter Effects on Growth Properties"  
C.A. Papageorgopoulos, M. Kamaratos, Aris Papageorgopoulos, A. Schellenberger, E. Holub-Krappe, C. Pettenkofer and W. Jaegermann  
Surface Sci. **275** (1992) 314
24. "Ultrathin CaF<sub>2</sub> Layers on W(211)"  
W. Dolinski, F. Gotek, M. Kamaratos and E. Bauer  
Appl. Surface Science **62** (1992) 1
25. "Cs Deposition on Layered 2H-TaSe<sub>2</sub>(0001) Surfaces: Adsorption or Intercalation?"

- C. Pettenkofer, W. Jaegermann, A. Schellenberger, E. Holub-Krappe,  
C.A. Papageorgopoulos, M. Kamaratos and Aris Papageorgopoulos  
Sol. State Commun. **84** (1992) 921
26. "Alkali Intercalation into Layered Compounds: UHV in-situ- Preparation and Reactivity"  
A. Schellenberger, W. Jaegermann, C. Pettenkofer, C.A. Papageorgopoulos and M. Kamaratos  
Ber. Bunsenges. Phys. Chem. 96 (1992) 1756
27. "Potassium Adsorption on MoS<sub>2</sub>(0001) at Low Temperature"  
M. Kamaratos, D. Vlachos and C.A. Papageorgopoulos  
J. Condensed Matter **5** (1992) 535
28. "Adsorption of Li on WS<sub>2</sub> (0001) at low temperature"  
M. Kamaratos, C.A. Papageorgopoulos, A. Schellenberger, E. Holub-Krappe,  
C. Pettenkofer and W. Jaegermann  
Material Science Forum **126-128** (1993) 687
29. "Ba deposition on Si(100)2x1"  
D. Vlachos, M. Kamaratos and C. Papageorgopoulos  
Sol. State Commun. **90** (1994) 175-181
30. "Photoelectron spectroscopy of UHV in situ intercalated Li/TiSe<sub>2</sub>. Experimental proof of the rigid  
band model"  
W. Jaegerman, C. Pettenkofer, A. Schellenberger, C.A. Papageorgopoulos, M. Kamaratos,  
D. Vlachos, Y. Tomm  
Chem. Phys. Lett. **221**(1994) 441-446
31. "Li insertion into 2H-WSe<sub>2</sub>: Electronic structure and reactivity of the UHV in-situ prepared  
interface"  
A. Schellenberger, W. Jaegermann, C. Pettenkofer, M. Kamaratos, C.A. Papageorgopoulos  
Ber. Bunsenges. Phys. Chem. **98**(1994)833
32. "Adsorption of elemental S on Ni(100) Surfaces"  
C.A. Papageorgopoulos and M. Kamaratos  
Surface Sci. **338** (1995) 77
33. "Adsorption of elemental S on Si(100)2x1"  
Aris Papageorgopoulos and M. Kamaratos  
Surface Sci. **352-354** (1996) 364

34. "Surface Science investigations of Cu intercalation in 1T-TaSe<sub>2</sub> and TiSe<sub>2</sub> and its deintercalation by adsorbed Br<sub>2</sub>"  
W. Jaegermann, C. Pettenkofer, O. Henrion, Y. Tamm, C.A. Papageorgopoulos, M. Kamaratos and D.C. Papageorgopoulos  
Ionics, **2** (1996) 201
35. "Adsorption of elemental S on Si(100)2x1: Surface restoration"  
Aris Papageorgopoulos, A. Corner, M. Kamaratos and C.A. Papageorgopoulos  
Phys. Rev. **B55** (1997) 4435
36. "Adsorption of Br<sub>2</sub> on Na-intercalated n-WSe<sub>2</sub>: Br-induced deintercalation"  
M. Kamaratos, C.A. Papageorgopoulos, D.C. Papageorgopoulos, W. Jaegermann, C. Pettenkofer and J. Lehmann  
Surface Sci. **377** (1997) 659
37. "Adsorption of Br<sub>2</sub> on Na-intercalated layer compounds: Bromine induced deintercalation"  
C.A. Papageorgopoulos, M. Kamaratos, D.C. Papageorgopoulos, W. Jaegermann, C. Pettenkofer and O. Henrion  
Surface Review and Letters **4** (1997) 237
38. "Adsorption of Cs on WSe<sub>2</sub> (0001) at low temperature"  
M. Kamaratos  
Sol. St. Commun. **103** (1997) 89
39. "Interaction of Na and Cl on WSe<sub>2</sub>(0001) surfaces: Chlorine induced Na deintercalation"  
M. Kamaratos, V. Saltas, C.A. Papageorgopoulos, W. Jaegermann, C. Pettenkofer and D. Tonti  
Surface Sci. **402-404** (1998) 37
40. "Coadsorption of Na and elemental S on Ni(100)"  
C.A. Papageorgopoulos, M. Kamaratos, Aris Papageorgopoulos  
Surface Sci. **402-404** (1998) 120
41. "Na and Cl<sub>2</sub> interaction on 1T and 2H- TaSe<sub>2</sub> (0001) surfaces"  
C. A. Papageorgopoulos, M. Kamaratos, V. Saltas, W Jaegermann, C. Pettenkofer, D. Tonti  
Surface Rev. and Lett. **5** (1998)997
42. "Alkali displacement in intercalated 1T-TaSe<sub>2</sub>"  
D. Tonti, C. Pettenkofer, W. Jaegermann, D.C. Papageorgopoulos, M. Kamaratos, C.A. Papageorgopoulos  
Ionics, **4** (1998) 93

43. "Coadsorption of Cs and elemental S on Ni(100) surfaces"  
C.A. Papageorgopoulos, M. Kamaratos, D.C. Papageorgopoulos  
Surface Sci. **433-435** (1999) 806
44. "Cesium deintercalation by Li and Na deposited on 1T-TaSe<sub>2</sub>(0001) surfaces"  
M. Kamaratos, C.A. Papageorgopoulos, D.C. Papageorgopoulos, D. Tonti, C. Pettenkofer,  
W. Jaergemann  
Appl. Surface Sci. **147** (1999) 101
45. "Exchange reaction between intercalated Li and Na into TiS<sub>2</sub>"  
C.A. Papageorgopoulos, M. Kamaratos, D.C. Papageorgopoulos, D. Tonti, C. Pettenkofer,  
W. Jaergemann  
Surface Sci. **436** (1999) 213
46. "Interaction between Li and Na Intercalated into 1T-TaSe layer compounds"  
M. Kamaratos, C.A. Papageorgopoulos, D.C. Papageorgopoulos, D. Tonti, C. Pettenkofer,  
W. Jaergemann  
Surf. Rev. and Lett. **6** (1999).205
47. "K and S coadsorption on Ni(100) surfaces"  
A.C. Papageorgopoulos and M. Kamaratos  
J. Phys.: Condens. Matter **12** (2000) 9281-9291
48. "Adsorption and desorption of Se on Si(100)2x1: Surface restoration"  
A.C. Papageorgopoulos and M. Kamaratos  
Surface Sci. **466** (2000) 173
49. "Li on S covered Ni(100) surfaces"  
A.C. Papageorgopoulos, M. Kamaratos, C.A. Papageorgopoulos  
Surf. Rev. Lett. **481** (2001) 143
50. "Na and Chlorine coadsorption on Si(100)"  
M. Kamaratos and C.A. Papageorgopoulos  
Surf. Rev. Lett. **8** (2001) 261
51. "Coadsorption of Rb and Cl on Cu(111)"  
M. Kamaratos, C.A. Papageorgopoulos  
Solid State Commun. **118** (2001) 553
52. "Adsorption kinetics of the Cs-O activation layer on GaAs(100)"  
M. Kamaratos  
Appl. Surf. Sci. **185** (2001) 66

53. "Adsorption of Cs on Si(111)7x7 surfaces: site preference and the near metallic state of Cs"  
A.C. Papageorgopoulos, M. Kamaratos  
Surf. Rev. and Lett. 8 (2001) 633-639
54. "Interactions between Se, Cs and Si upon Se adsorption on Cs/Si(111)-7x7 surfaces"  
A.C. Papageorgopoulos, M. Kamaratos  
J. Phys.: Condens. Matter **14** (2002) 1-16
55. "A Study of the restoration of Se/Si(111)-7x7 reconstructed surfaces: preservation of the bulk-terminated state"  
A.C. Papageorgopoulos, M. Kamaratos  
Surface Science **504** (2002) L191
56. "Li Interaction with the group IV selenides layer compounds at Low temperature"  
M. Kamaratos, D. Vlachos, C.A. Papageorgopoulos, A. Schellenberger, W. Jaegermann, C. Pettenkofer  
J. Phys. Condens. Matter **14** (2002) 8979
57. Selenium adsorption on Cs covered Si(100)2x1 surfaces  
A.K. Sotiropoulos, M. Kamaratos  
Sol. State Commun. **129** (2004) 637
58. Ni ultra thin film development on SrTiO<sub>3</sub>(100) surface  
D. Vlachos, M. Kamaratos, S. D. Foulas, Ch. Argirusis, G. Borchardt  
Surface Science **550** (2004) 213
59. A study of Cs adsorption on Se covered Si(100)2x1 Surfaces  
A. K. Sotiropoulos, M. Kamaratos  
Appl. Surf. Science **229** (2004) 161
60. The development of Ni ultra thin films and the interaction with oxygen on SrTiO<sub>3</sub>(100) surface studied by SXPS  
M. Kamaratos, D. Vlachos, S. D. Foulas, Ch. Argirusis  
Surf. Rev. Letters **11** (2004) 419
61. Adsorption of oxygen on Ni covered SrTiO<sub>3</sub>(100) surface studied by means of Auger electron spectroscopy and work function measurements  
D. Vlachos, M. Kamaratos, S. D. Foulas, Ch. Argirusis, G. Borchardt  
J. Phys: Condens. Matter **17** (2005) 653
62. Electronic properties of Barium ultrathin layers on the Ni (110) surface  
M. Kamaratos, D. Vlachos, S. D. Foulas  
Surf. Rev. Letters, **12** (2005) 721
63. Adsorption kinetics of potassium on SrTiO<sub>3</sub>(100)  
E. Mori, M. Kamaratos  
Surf. Rev. Letters In press
64. Barium and oxygen interaction on Ni(110) surface at low coverages studied by soft X-ray photoemission spectroscopy: Ba negative binding energy shifts and their correlation with Auger electron spectroscopy shifts  
D. Vlachos, M. Kamaratos, S. D. Foulas



- J. Phys: Condens. Matter **18** (2006) 6997
65. Surface properties and activity of Fe-Ni-B ternary glasses  
P. Patslas, A. Lekatoy, E. Pavlidoy, S. Foulías, M. Kamaratos, G. A. Evagelakis, A. R. Yavari  
J. Alloys and compounds (2006) Journal of Alloys and compounds 434-435 (2007) 229
66. Lithium Adsorption on the SrTiO<sub>3</sub> (100) surface  
EE. Mori, M. Kamaratos  
J. Phys.: Cond. Matter 19 (2007) 356001
67. Development and Characterization of an ultra thin Barium oxide Film on a Surface Oxidized Ni(110) Substrate  
D. Vlachos, S D Foulías, M. Kamaratos  
Synthesis and Reactivity in Inorganic Metal-Organic and Nano-Metal Chemistry 38(2008)400
68. Development and characterization of Fe ultrathin films on the SrTiO<sub>3</sub>(100) surface  
M. Kamaratos, D. Vlachos, S D Foulías  
J. Phys.: Cond. Matter 20(2008)315009
69. Barium adsorption on chemisorbed O(2x1) Ni(110) surface  
D. Vlachos, S D Foulías, M. kamaratos  
J. Phys.: Cond. Matter 21(2009)445004
70. Indium growth on reconstructed Si(111)3x3 and 4x1 In surface  
D. Vlachos, M. Kamaratos, S D Foulías F Bodino, E Magnano, M Malsestuto  
J. Phys. Chem. C 114 (2010) 17693
71. Lead growth on Si(111) surfaces reconstructed by Indium  
D Vlachos, M. Kamaratos, S D Foulías, S Binz, M Hupalo, M C Trigidis  
J. Phys.: Cond. Matter 24 (2012) 095006
72. A study of Barium ultra thin films on the SrTiO<sub>3</sub>(100) surface by soft X-ray photoelectron spectroscopy  
D Vlachos, M. Kamaratos, Ch Argiris, S D Foulías  
J. of Electron Spectr. And Related Phenomena 185 (2012) 615
73. The low energy Auger electron spectroscopy lines as index of the Ba overlayer order on the Ni (100) surface.  
D Vlachos, M. Kamaratos, Ch Argiris, S D Foulías  
International Journal of Spectroscopy 2014, 289346
74. Cesium growth on the SrTiO<sub>3</sub> (100) surface  
D. Vlachos, E. Giotopoulou, S. D. Foulías, M. Kamaratos  
Matet. Res. Express 2 (2015) 116501

### C. INTERNATIONAL CONFERENCES

1. "A study of the formation and adsorption of small Fe particles"  
M. Kamaratos and C. Papageorgopoulos  
IX International Vacuum Congress and VI International Conference on Solid Surfaces,  
Madrid (1983)
2. "Adsorption Studies on Ar<sup>+</sup> Sputtered MoS<sub>2</sub>(0001)"  
M. Kamaratos and C.A. Papageorgopoulos  
8th European Conference on Surface Science (ECOSS-8), Germany, 1986
3. "The Adsorption of Cs on WSe<sub>2</sub>"  
S. Ladas, S.Kennou, M. Kamaratos, S.D. Foulis and C.A. Papageorgopoulos  
9th European Conference on Surface Science (ECOSS-9), Switzerland, 1987
4. "The Effect of Cs on the Adsorption of H<sub>2</sub> on Mo(110)"  
M-L. Ernst-Vidalis, M. Kamaratos and C.A. Papageorgopoulos  
9th European Conference on Surface Science (ECOSS-9), Switzerland, 1987
5. "The Effect of Cs on the Oxidation of Si(111) Surfaces"  
C. Papageorgopoulos, S. Foulis, S. Kennou and M.Kamaratos  
10th European Conference on Surface Science, (ECOSS-10), Italy, 1988
6. "Adsorption of Alkali on Hydrogenated Si(100)2x1 Surfaces"  
C.A. Papageorgopoulos and M. Kamaratos  
11th International Vacuum Congress and 7th International Conference on Solid Surfaces,  
Germany, 1989
7. "Alkali Adsorption on NiO(100)"  
S. Kennou, M. Kamaratos and C.A. Papageorgopoulos  
11th International Vacuum Congress and 7th International Conference on Solid Surfaces,  
Germany, 1989
8. "The Influence of Na on the Oxidation of Si(111) Surfaces"  
C.A. Papageorgopoulos and M. Kamaratos  
20th International Conference on the Physics of Semiconductors, Thessaloniki , Greece1990
9. "Adsorption of K and its Coadsorption with O<sub>2</sub> on MoS<sub>2</sub>(0001)"  
C.A. Papageorgopoulos, M. Kamaratos, S. Kennou and D. Vlachos  
11th European Conference on Surface Science (ECOSS-11), Spain, 1990
10. "Adsorption of Li on WS<sub>2</sub>(0001) at Low Temperature"

- M. Kamaratos, C. A. Papageorgopoulos, A. Schellenberger, E. Holub-Krappe,  
C. Pettenkofer and W. Jaegermann  
6th International Conference on Intergranular and Interface Boundaries, Thessaloniki, Greece 1992
11. "Li Deposition on Layered  $WX_2$  and  $TaX_2$  ( $X=S, Se$ )"  
A. Schellenberger, E. Holub-Krappe, C. Pettenkofer, W. Jaegermann,  
C.A. Papageorgopoulos and M. Kamaratos  
12th International Vacuum Congress and 8th International Conference on Solid Surfaces,  
Netherlands, 1992
  12. "Adsorption of Ba on Clean and H-covered  $Si(100)2 \times 1$ "  
D. Vlachos, M. Kamaratos and C.A. Papageorgopoulos  
12th International Vacuum Congress and 8th International Conference on Solid Surfaces,  
Netherlands, 1992
  13. "Li deposition on the (0001) planes of layered compounds  $MSe_2$  ( $M=T_1, Zr, Hf$ ) at RT and LT"  
4th International Conference on the Formation of Semiconductor metal Interfaces, Germany 1993
  14. (a) Adsorption of S and Cs on  $Si(100)2 \times 1$  surfaces  
A. Papageorgopoulos and M. Kamaratos  
(b) Sulfurization of Ni(100) surfaces and alkali and sulfur coadsorption  
M. Kamaratos and A. Papageorgopoulos  
6<sup>th</sup> National alliance of research centers of excellence conference, Atlanta-Georgia-USA 1994
  15. Sulfurization of  $Si(110)2 \times 1$ : Surface restoration  
M. Kamaratos and A. Papageorgopoulos  
International symposium on "Si Heterostructures : From Physics to Devices", Crete, Greece, 1995
  16. Adsorption of elemental sulfur on  $Si(100) 2 \times 1$   
A. Papageorgopoulos and M. Kamaratos  
15 European Conference on Solid Surfaces (ECOSS), Lille-France, 1995
  17. Coadsorption of elemental S and Cs on  $Si(100)2 \times 1$  surfaces  
Aris papageorgopoulos, M. Kamaratos, and C.A. Papageorgopoulos  
5<sup>th</sup> Intern. Conf. on the Structure of Surfaces (ICSOSS-5), Aix en Provance, France, 1996
  18. Adsorption of Halogen on Na intercalated layer compounds  
C.A. Papageorgopoulos, M. Kamaratos, W. Jaegermann, C. Pettenkofer, O. Henrion and  
D.C. Papageorgopoulos  
16<sup>th</sup> European Conference on Solid Surfaces (ECOSS-16), Genova, Italy, 1996

19. (a) Interaction of Na and Chlorine on layer compounds surfaces: Cl induced deintercalation  
M. Kamaratos, V. Saltas, C.A. Papageorgopoulos, W. Jaegermann, C. Pettenkofer and D. Tonti  
(b) Coadsorption of alkali and elemental sulfur on Ni(100) surfaces  
C.A. Papageorgopoulos, M. Kamaratos and Aris Papageorgopoulos  
17<sup>th</sup> European Conference on Solid Surfaces (ECOSS-17), Enschede, The Netherlands, 1997
20. Coadsorption of Cs and S on Ni(100) surfaces  
C. A. Papageorgopoulos, M. Kamaratos, D.C. Papageorgopoulos  
14<sup>th</sup> International Vacuum Congress (IVC-14), 10<sup>th</sup> International Conference on Solid Surfaces (ICSS-10), 5<sup>th</sup> International Conference on Nanometer-scale Science and Technology (NANO 5), 10<sup>th</sup> International Conference on Quantitative Surface Analysis (QSA- 10), Birmingham, UK, September 1998
21. Coadsorption of K and S on Ni(100) surfaces  
A.C. Papageorgopoulos and M. Kamaratos  
18<sup>th</sup> European Conference on Solid Surfaces (ECOSS-18), Vienna, 1999
22. Adsorption of Se on Si(100): Surface Restoration  
A.C. Papageorgopoulos, M. Kamaratos  
18<sup>th</sup> European Conference on Solid Surfaces (ECOSS-18), Vienna, 1999
23. Adsorption of Se on Si(100): Surface Restoration  
A.C. Papageorgopoulos, M. Kamaratos  
5<sup>th</sup> International workshop on Expert Evaluation & Control of Compound Semiconductor Materials & Technologies, Crete, May 2000
24. Adsorption of water on cesium covered SrTiO<sub>3</sub> (100) surface  
International Conference Nanomaterials: Applications and Properties  
Vol 3 No 1, 01001 (3pp) (2014)

#### D. WORKSHOPS

European Workshop on research with Synchrotron Radiation, Ioannina, 1993

#### E' RESEARCH COOPERATION

1. TECHNISCHE UNIVERSITÄT, CLAUSTRAL - GERMANY
2. HAHN-MEITNER INSTITUTE/BESSY, BERLIN, GERMANY
3. CLARK-ATLANTA UNIVERSITY, ATLANTA, GEORGIA, USA
4. MAX PLANCK INSTITUTE, LUND, SWIDEN
5. ELLETRA INSTITUTE, TRIESTY, ITALY

F.' PARTISIPATION ON RESEARCH PROGRAMMS

1. "STUDY OF THE ADSORPTION OF ALKALI AND THEIR INTERACTION WITH GASES ON LAYER COMPOUNDS SURFACES "  
RESEARCH COMMITTEE UNIVERSITY OF IOANNINA 1986
2. "ADSORPTION OF GASES ON SMALL METALLIC PARTICLES (10-100 Å) OF CATALYTIC INTEREST SUPPORTED BY LAYER COMPOUND SURFACE"  
COOPERATION HELLAS- BULGARY, 1987
3. " STUDY OF THE ALKALI INTERACTION WITH O<sub>2</sub> ON Si SURFACES Si-SiO<sub>2</sub> INTERFACES "  
RESEARCH COMMITTEE UNIVERSITY OF IOANNINA , 1989
4. "THE STUDY OF ELECTRONIC PROPERTIES OF ALKALI METALS ON LAYERED COMPOUNDS AT ROOM AND LOW TEMPERATURE"  
E.E. (EG 034/310890)
5. "INTERACTION OF O<sub>2</sub> WITH ALKALI ON LAYERED COMPOUNDS"  
E.E. (11-91-14 EC)
6. INTERCALATION OF ALKALI METALS INTO LAYER COMPOUNDS(TX<sub>2</sub>) AND INFLUENCE OF GASES  
E.E. (TMR ERBFMGE CT 950031)
7. THE ROLE OF STRUCTURE IN SURFACE DYNAMIC PROCESSES  
TMR ERBCHRX CT930342/1994-1996
8. ALKALI ADSORPTION ON GRAFITE INTERACTION WITH COADSORBED MOLECULES AND ALKALI INTERACTION WITH C  
(CHRX-CT94-0571) /1994-1996