

## BRIEF CV

**Name:** KENNOU Stella

### Professor

**Address :** Department of Chemical Engineering, University of Patras,  
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**Education:** BS, Department of Physics, University of Ioannina, Ioannina, 1976  
Ph.D., Department of Physics, University of Ioannina, Ioannina, 1984

**Current Position:** Professor (2007- )  
Department of Chemical Engineering, University of Patras

**Previous Employment/ Occupation:** Associate professor( 2002-2007)  
Assistant Professor (1999-2002)  
Department of Chemical Engineering,  
University of Patras,  
Assistant Professor (1990- 1999)  
Lecturer, (1984-1990)  
Department of Physics,  
University of Ioannina

- ICE/HT - FORTH, Patras, Visiting Scientist, 1991 – 1999,  
Collaborating Faculty member 1999- 2011
- LEPES/CNRS, Grenoble, Research Associate  
1980 - 1982 , 1987, 1989, 1990
- Fritz-Haber Institute of the MPS , Berlin, Visiting Scientist, 1988  
(with Prof. G. Ertl, Nobel Laureate 2007)
- Universite de Grenoble I, visiting faculty member , 1992

### Research Activities:

Experimental Surface Physics and Chemistry:

- Study of thin metallic film / semiconductor interfaces with surface science experimental techniques.( XPS, UPS, AES, ELS, LEED, TDS, SEXAFS, Work Function measurements)
- Study of organic/ inorganic and organic/organic interfaces for organic electronic applications
- Interaction of metals and gases on metallic and semiconducting surfaces,  
-bimetallic thin films on oxide surfaces,
- Surface characterization of carbon based materials, silicon carbide, silicon oxide, silicon nitride, boron nitride, gallium nitride , high -k oxides thin films and rare earth metal oxide thin films prepared with various methods ( RF sputtering, CVD ,

molecular beam epitaxy, Atomic Layer Deposition etc) for microelectronic device applications by surface science experimental techniques .

### **Participation in Research Projects:**

Participation in 20 Research Projects (in ten of them as a Scientific Co-ordinator) during the last ten years, at the Chemical Engineering, funded from both national and international sources, with a number of collaborators in Greece and abroad.

### **Major Funding Research projects**

1. "Heterostructures on Si for integrated optoelectronics"  
Human Capital and Mobility, Contract No CHRX-CT93-0355
2. "Photoemission, NEXAFS and SEXAFS measurements of light-elements on transition metals"  
Human Capital and Mobility, Contract No CHGE-CT93-0027
3. "Charge Exchange Processes at Surfaces Basic Phenomena and Surface Chemistry"  
Human Capital and Mobility, Contract No CHRX-CT 94-0571
4. "Alkali Adsorption on Graphite, Interaction with coadsorbed Molecules and Alkali Interaction with C60"  
Human Capital and Mobility, Contract No CHRX-CT 94-0580
5. "Preparation of realistic model polymerization catalysts using surface sensitive spectroscopies"  
Human Potential, Marie Curie Return Grant, Contract No HPMF-CT-1999-00331
6. "A fundamental study of the processing – structure – properties of nanocomposites for industrial applications" EU GROWTH 2002-2005 ( PRONACOM Contract No G5RD-CT2002-00721)
7. "Study of New bimetallic nanomaterials for heterogeneous catalysis" , GSRT, Greek - Czech bilateral collaboration program, 2003- 2005
8. "Nanostructured and Functional polymer-based materials and nanocomposites"  
FP-6 , NoE NANOFUN-POLY (Contract No NMP3 CT2004 500 361) , 2004 - 2007
9. "European Integrated Activity of Excellence and Networking for Nano and Micro- Electronics Analysis" FP-6 , I3, ANNA Contract No 02614  
2006 - 2010
10. "COST-Action D41: Inorganic oxides: surfaces and interfaces"

11. NoE/ICT, FLEXNET, Contract No 247745 , 2010 - 2012

**Publications :**

Refereed Publications: 105  
Conference Proceedings: 9

**Citation index: 1600** (without self citations)

**Conference Participation/ Attendance:**

Participation in international conferences: 90  
Participation in national conferences: 57

**Teaching Activities:**

Teaching at the Physics Department University of Ioannina and at the Chemical Engineering Department of the University of Patras includes courses in: General Physics (Mechanics and Electromagnetism), Experimental Physics, Thermodynamics, Surface Science, Inorganic materials and Physical Chemistry

**Professional affiliations:**

Member: Condensed Matter Hellenic Society, Hellenic Association of Physists  
Founding member and chairman of the National Society “Micro&Nano” for 2013-2016  
Coordinator of the “NanoDEMA Network” of the University of Patras

**Languages :**

Greek (mother tongue ), English (very well), French (very well) , Italian (well)

***List of publications in refereed journals (105)***

1. “LEED and UPS Study of Ni~(001) vicinal surfaces”  
R. Cinti, T.A. Nguyen Tan, Y. Capiomont and S. Kennou  
Surface Sci., **134** (1983) 755
2. “The effect of MoS<sub>2</sub> structural changes on the adsorption of Cs”  
S. Ladas, S. Kennou, S.D. Foulis and C.A. Papageorgopoulos  
Solid State Commun., **52** (1984) 543

3. “The behavior of Cs on MoS<sub>2</sub>”  
S. Kennou, S. Ladas and C.A. Papageorgopoulos  
Surface Science **152/153** (1985) 1213
4. “The effect of MoS<sub>2</sub> structural changes on the coadsorption of Cs and O<sub>2</sub>”  
S. Ladas, S. Kennou and C.A. Papageorgopoulos  
Surface Sci., **162** (1985) 279
5. “The interaction of Cs and O<sub>2</sub> on the basal plane of MoS<sub>2</sub>”  
S. Kennou, S. Ladas and C.A. Papageorgopoulos  
Surface Sci., **164** (1985) 290
6. “The adsorption of Cs on WSe<sub>2</sub>”  
S. Ladas, S. Kennou, M. Kamaratos, S.D. Foulis and C.A. Papageorgopoulos  
Surface Sci., **189/190** (1987) 261
7. “The influence of steps on the epitaxial growth of iron-silicide on Si(100)”  
S. Kennou, N. Cherief, R. Cinti and T.A. Nguyen Tan  
Surface Sci., **211/212** (1989) 685
8. “The effect of Cs on the oxidation of Si(111) surfaces”  
C. Papageorgopoulos, S. Foulis, S. Kennou and M. Kamaratos  
Surface Sci., **211/212** (1989) 991
9. “The influence of steps on the adsorption of Cs on Si(100)”  
S. Kennou, M. Kamaratos, S. Ladas and C.A. Papageorgopoulos  
Surface Sci., **216** (1989) 462
10. “The effect of steps on the oxidation of a cesiated Si(100)2x1”  
M. Kamaratos, S. Kennou, S. Ladas and C.A. Papageorgopoulos  
Journal of Physics Condens. Matter **1** (1989) 6071

11. "Potassium adsorption on NiO(100)"  
S. Kennou, M. Kamaratos and C.A. Papageorgopoulos  
Vacuum **41** (1990) 22
12. "The coadsorption of Cesium and Potassium on Si(100)"  
M. Kamaratos, S. Kennou and C.A. Papageorgopoulos  
Surface Sci., **227** (1990) 43
13. "Potassium adsorption on  $\beta$ -FeSi<sub>2</sub> thin films"  
S. Kennou and T.A. Nguyen Tan  
Surface Sci., **248** 1-2 (1991) L255
14. "The behavior of K on the basal plane of MoS<sub>2</sub>"  
C.A. Papageorgopoulos, M. Kamaratos, S. Kennou and D. Vlachos  
Surface Sci., **251/252** (1991) 1057
15. "Coadsorption of Potassium and Oxygen on thin  $\beta$ -FeSi<sub>2</sub> overlayers on Si(111)"  
S. Kennou and T.A. Nguyen Tan  
Surface Sci., **251/252** (1991) 1029
16. "Preparation and characterization of thin CsAu films"  
M. Stottke-Klein, A. Böttcher, R. Imbeck, S. Kennou, A. Morgante and G. Ertl  
Thin Solid Films **202** (1991) 131
17. "Cesium and Oxygen adsorption on NiO(100)"  
S. Kennou, M. Kamaratos and C.A. Papageogropoulos  
Surface Sci., **256** (1991) 312
18. "Formation and electronic structure of Terbium silicide epitaxially grown on Si(111)"  
J.Y. Veuillen, S. Kennou and T.A. Nguyen Tan  
Solid State Commun., **79**,10, (1991) 795

19. "Characterization and electronic properties of the Tb/Si(111)<sub>7x7</sub> interface"  
S. Kennou, J.Y. Veuillen and T.A. Nguyen Tan  
Appl. of Surface Sci., **56-58** (1992) 520
  
20. "Coadsorption of K and O<sub>2</sub> on MoS<sub>2</sub>(0001)"  
C. Papageorgopoulos, M. Kamaratos, S. Kennou and D. Vlachos  
Surface Sci., **277** (1992) 273
  
21. "Si/ErSi<sub>1.7</sub> interfaces and Si reepitaxy on the Si/Er<sub>1.7</sub>/Si structure"  
T.A. Nguyen Tan, J.Y. Veuillen, S. Kennou and L. Magaud  
Appl. of Surface Sci., **70/71** (1993) 520
  
22. "The origin of Non-Faradaic Electrochemical Modification of Catalytic Activity"  
S. Ladas, S. Kennou, S. Bebelis and C.G. Vayenas  
Journ. of Phys. Chemistry **97** (1993) 8845
  
23. "An XPS study of carbon segregation on polycrystalline silver"  
A. Siokou, S. Kennou and S. Ladas  
Surface Sci., **307-309** (1994) 810
  
24. "Formation and electronic properties of Erbium silicide on Si(100)"  
S. Kennou, J.Y. Veuillen and T.A. Nguyen Tan  
Surface Sci., **307-309** (1994) 258
  
25. "The local adsorption geometry of oxygen on Pt(210): a SEXAFS study"  
S. Ladas, A. Siokou, S. Kennou, T. Fink, R. Imbhil, F. Mertens and J. Haase  
Surface Sci., **319** (1994) 337
  
26. "Semiconducting Rhenium silicide thin films on Si(111)"  
T.A. Nguyen Tan, J.Y. Veuillen, P. Muret, S. Kennou, A. Siokou, S. Ladas,  
F.L. Razafindramisa and M. Brunel  
J. Appl. Phys. **77** (1995) 2514

27. "An XPS and WF study of the Er/Si(100) interface formation"  
A. Siokou, S. Kennou and S. Ladas  
Surface Sci., **331/333** (1995) 580
28. "Ba deposition on Ni(110)"  
D. Vlachos, S. Foulis, S. Kennou, C. Pappas and C. Papageorgopoulos  
Surface Sci., **331/333** (1995) 673
29. "An X-ray Photoelectron Spectroscopy and Work Function Study of the Er/a-SiC(0001)"  
S. Kennou  
J. Appl. Physics **78** (1995) 587
30. "Characterization of ex-situ hydrogenated amorphous SiC thin films by X-ray Photoelectron Spectroscopy"  
S. Kennou, S. Ladas, E.C. Paloura and J.A. Kalomiros  
Appl. Surf. Sci., **90** (1995) 283
31. "Hydrogen adsorption on ErSi<sub>1.7</sub>(0001)"  
J.Y. Veullen, T.A. Nguyen Tan, S. Ladas and S. Kennou  
Phys. Rev. B. **52** (1995) 10796
32. "Surface modification of a-SiC thin films with ex-situ hydrogenation"  
J.A. Kalomiros, E.C. Paloura, A. Ginoudi, S. Kennou, S. Ladas, Ch. Lioutas,  
N. Vouroutzis, D. Girginoudi, N. Georgoulas and A. Thanailakis  
Solid State Commun., **96** (1995) 735
33. "The formation of a NO-NH<sub>3</sub> coadsorption complex on a Pt(111) surface: a NEXAFS study"  
F. Esch, Th. Greber, S. Kennou, A. Siokou, S. Ladas and R. Imbihl  
Catalysis Letters **38** (1996) 165

34. "Identification of a different surface species of NO adsorbed on Ru(0001) with NEXAFS"  
F. Esch, S. Ladas, S. Kennou, A. Siokou and R. Imbihl  
Surface Sci., **355** (1996) L253
35. Growth and Characterization of the Re/Si(111) interface"  
A. Siokou, S. Kennou, S. Ladas, T.A. Nguyen Tan and J.Y. Veillen  
Surface Sci., **352-354** (1996) 628
36. "Oxidation of thin erbium and erbium silicide overlayers in contact with silicon oxide films thermally grown on silicon"  
S. Kennou, S. Ladas, M.G. Grimaldi, T.A. Nguyen Tan and J.Y. Veillen  
Appl. Surf. Sci., **102** (1996) 142
37. "Characterization of Light Emitting Silicon Nanopillars produced by lithography and etching"  
A.G. Nassiopoulos, S. Grigoropoulos, E. Gogolides, D. Papadimitriou, S. Kennou and S. Ladas  
Appl. Surf. Sci., **102** (1996) 377
38. "Characterization of the Oxygen adsorption states on clean and oxidized Ir(100) surfaces"  
S. Ladas, S. Kennou, N. Hartmann and R. Imbihl  
Surface Sci., **382** (1997) 49
39. "An Interface study of vapor-deposited Re with the two (0001) polar faces of single crystal 6H-SiC"  
S. Kennou, A. Siokou, I. Dontas and S. Ladas  
Diamond and Related Materials, **6** (1997) 1424
40. "A study of gold ultrathin growth on yttria-stabilized ZrO<sub>2</sub> (100)"  
S. Zafeiratos, S. Kennou  
Surface Sci., **443** (1999) 238



41. “ XPS Characterization of the electrochemically generated O species on a Au electrode evaporated on Y<sub>2</sub>O<sub>3</sub> stabilized ZrO<sub>2</sub> (100)”  
S. Neophytides, S. Zafeiratos and S. Kennou  
Solid State Ionics, **136-137**, (2000) 801
  
42. “Photoelectron spectroscopy study of surface alloying in the Au/Ni (s) 5 (100)x(111) system”  
S. Zafeiratos and S. Kennou”  
Applied Surface Sci., **173** (2001) 69
  
43. “ Characterization of BaTiO<sub>3</sub> thin films on p-Si”  
E.K. Evagelou, N. Konofaos, X. Aslanoglou, S. Kennou, and C. B. Thomas  
“Material Science in Semiconductor Processing” **4** (2001) 305
  
44. “ The interfacial properties of erbium films on the two polar faces of 6H-SiC(0001)”  
I. Dontas and S. Kennou  
Diamond and Related Materials, **10** (2001) 13
  
45. “A Photoelectron Spectroscopy study of Au thin films on ZrO<sub>2</sub> (100)”  
S. Zafeiratos, S. Neophytides and S. Kennou  
Thin Solid Films, **386** (2001) 583
  
46. “ A complementary study of bonding and electronic structure of amorphous Carbon films by electron spectroscopy and optical techniques”  
P. Patsalas, M. Handrea, S. Logothetidis, M. Gioti, S. Kennou and W. Kautek  
Diamond and Related Materials, **10** (2001) 960
  
47. “ A study of the conjugated Ooct-OPV5 oligomer/ gold interface using photoelectron spectroscopy”  
A. Siokou, V. Papaefthimiou and S. Kennou

Surface Science, **482-485** (2001) 1186

48. "The interaction of oxygen with ultrathin Ni deposits on yttria-stabilized ZrO<sub>2</sub> (100)"  
S. Zafeiratos and S. Kennou  
Surface Science, **482-485** (2001) 266
49. "Gold and Ni bimetallic ultrathin films on yttria-stabilized ZrO<sub>2</sub>(100)"  
S. Zafeiratos and S. Kennou  
Journ. of Phys. Chemistry B, **106** (2002) 41
50. "Variation of nitrogen incorporation and bonding configuration of carbon nitride films studied by XPS and FTIR spectroscopic ellipsometry"  
S. Kennou, S. Logothetidis, L. Sygellou, A. Laskarakis, D. Sotiropoulou,  
Y. Panayiotatos  
Diamond and Related Materials, **11** (2002) 1183
51. " Growth and interfacial studies of the conjugated Oct-OPV5 Oligomer on Si and SiO<sub>2</sub> substrates"  
V. Papaefthimiou, A. Siokou, and S. Kennou  
Journ. of Applied Physics, **42** (2002)
52. " The interaction of ultrathin nickel oxide films with single crystal zirconia and alumina surfaces"  
L. Sygellou, S. Zafeiratos, N. Tsud, V. Matolin, S. Kennou and S. Ladas,  
Surface and Interface Analysis, **34** (2002) 545
53. " Surface-activation processes and ion-solid interactions during the nucleation and growth of ultra-thin amorphous carbon films"  
P. Patsalas, S. Logothetidis , S. Kennou, C. Gravalidis  
Thin Solid Films , **428** (2003) 211
54. " The interaction of ultra thin nickel films with yttria-stabilized zirconia (100)"

S.Zafeiratos and S. Kennou

Surface Science, **532-535** (2003) 402

55. “ A study of the interface formation between gold and a conjugated thin film”

V. Papaefthimiou, A. Siokou and S. Kennou

Surface Science, **532-535** (2003) 255

56. “ Study of the early stages of Cu/ SiC (000-1) interface formation ”

J. Dontas, S. Ladas , S. Kennou

Diamond and Related materials, **12** (2003) 1209

57. “Molecular composition and orientation of interstitial versus thin silicon oxide layers on Si (111) and Si (100) surfaces using FT-IR and X- ray photoelectron spectroscopies.

V. Gregoriou, G. Kandilioti, V. Papaefthimiou, A. Siokou and S. Kennou

Applied Spectroscopy, **57** (2003) 628

58. “ Structure-dependent electronic properties of nanocrystalline Cerium oxide films”

P. Patsalas and S. Logothetidis, L. Sygellou and S. Kennou

Physical Review B, **68** (2003) 035104

59. “ The electronic properties between a thin conjugated oligomer film and SiO<sub>2</sub>/Si(111), studied by photoemission spectroscopies”

V. Papaefthimiou, A. Siokou and S. Kennou

Thin Solid Films, **459** (2004) 32

60. “Characterization of polypropylene (PP) nanocomposites for industrial applications”, A. Korakianiti, V. Papaefthimiou, T. Daflou, S. Kennou and V. G. Gregoriou, Macromolecular Symposia **205** (2004) 71

61. “ The electronic structure of the sputtered Indium – Tin Oxide and a thin conjugated oligomer film interface”

- V. Papaefthimiou and S. Kennou  
Surface Science **566-568** (2004) 497
62. “A photoemission study of Oct-OPV5/SiO<sub>2</sub>/Si(111) interface: effect of the SiO<sub>2</sub> interlayer thickness”  
V. Papaefthimiou, A. Siokou and S. Kennou  
Surface Science **569** (2004) 207
63. “Electronic properties of a semiconducting oligomer/silicon (111) interface: Influence of silicon doping  
V. Papaefthimiou and S. Kennou  
Applied Physics Letters **86** (2005) 222106
64. “The electronic structure of the interface between thin conjugated oligomer films and inorganic substrates with different work function”  
V. Papaefthimiou, A. Siokou and S. Kennou  
Surface Science **600** (2006) 3987
65. “The transition from the adsorbed state to a surface alloy in the Sn/ Ni(111) system”  
S. Karakalos, S. Kennou, S. Ladas, P. Janecek, F. Sutara, V. Nehasil, S. Fabik, N. Tsud, K. Prince, V. Matolin and V. Chad  
Surface Science, **600** (2006) 4067
66. “Growth of stoichiometric SiO<sub>2</sub> nanoisland arrays on Si through anodic porous alumina application in silicon Quantum Dot Self-Assembly”.  
M. Kokonou, A.G. Nassiopoulou, K. Giannakopoulos, A. Travlos, T. Stoica and S. Kennou  
Nanotechnology, **17** (2006) 2146
67. “Study of the early stages of Cr/6H- SiC (0001) interface formation”.  
I. Dontas, S. Karakalos, S. Ladas, S. Kennou  
Applied Surface Science **252** (2006) 5312

68. “ The electronic structure of Ni-Phthalocyanine/metal interfaces studied by X-ray and Ultraviolet Photoelectron spectroscopy”  
F. Petraki, V. Papaefthimiou and S. Kennou  
Organic Electronics, **8** (2007) 522-528
69. “Dispersion relations and optical Properties of amorphous Carbon”  
J. Kassavetis, P. Patsalas, S. Logothetidis, J. Robertson, S. Kennou  
Diamond and related Materials, **16** (2007) 1813-1822
70. “The electronic properties of Nickel Phthalocyanine and a PEDOT:PSS film”  
F. Petraki and S. Kennou  
Journ of Applied Physics, **103** (2008 ) 033710
71. “Soluble Substituted Phthalocyanines for FET Applications”  
G.Chaidogiannos, F. Petraki, N. Glezos, S. Kennou, S. Nespurek  
Materials Science and Engineering B, **152** (2008) 105-108
72. “Cr/4H-SiC Schottky contacts investigated by electrical and photoelectron spectroscopy techniques ”.  
Dontas J., Koliakoudakis H., Ladas S., Konstantinidis G, Zekentes K.,  
Kennou S.  
Physica status Solidi a, **205** (2008) 2536-2540
73. “Electronic structure investigation of Nickel Phthalocyanine thin film interfaces with inorganic and organic substrates”  
F. Petraki and S. Kennou  
Physica Status Solidi c, **12** (2008) 3708-3711
74. “Study of the early stages of Cr/4H-SiC(11-20) interface formation and its behavior at high temperatures”  
I. Dontas\*, S. Karakalos, S. Ladas and S. Kennou  
Physica Status Solidi c, **12** (2008) 3744-3747

75. “Novel Hybrid Materials consisting of regioregular Poly(3-octylthiophene)s covalently attached on single wall carbon nanotubes”  
A. Stefopoulos, C. Chorchos, M. Prato, K. Papagelis, F. Petraki, S. Kennou and J. Kallitsis  
Chemistry A, Europ. Journ., **14** (2008) 8715-8724
76. “ Morphology, structure, chemical composition and light emitting properties of very thin anodic films , fabricated using short single pulses of current ”  
S. Gardelis, F. Petraki, S. Kennou, I. Tsiaoussis, N. Frangis and A.G. Nassiopoulou  
Journ. of Applied Physics, **103** (2008) 103536
77. “Thermal Degradation Mechanisms of PEDOT:PSS”  
E. Vitoratos, S. Sakkopoulos, E. Dalas, N. Paliatsas, D. Karageorgopoulos, F. Petraki, S. Kennou and S.A. Choulis  
Organic Electronics, **10** (2009) 61- 66
78. “ Model spectroscopic studies of cobalt phthalocyanine thin film interfaces with inorganic substrates ”  
F. Petraki and S. Kennou  
Intern. Journal of Nanotechnology, **6** (2009) 112-123
- 79 “ Low voltage operating OFET based on solution- processed metal phthalocyanines”  
G. Chaidogiannos, F. Petraki, N. Glezos, S. Kennou, S. Nespurek  
Applied Physics A, **96** (2009) 763-767
80. “Investigation of the interfaces formed between ITO and Metal Phtalocyanines (NiPc and Co Pc) by Photoelectron Spectroscopy”  
F. Petraki and S. Kennou  
Organic Electronics, **10** (2009) 1382-1387

81. "Nanoscale processes during the interaction of aluminosilicate and carbonate mineral surfaces with acid mine drainage(AMD) ”  
K.Kollias, A. Godelitsas , J. M. Astilleros, S. Ladas, S. Kennou, C. Potamitis, M.Zervou, A. Lagoyiannannis, S. Harissopulos, Th. Mavromoustakos  
Geochimica and Cosmochimica Acta, 73, 13, 2009 A 677
82. "Fabrication and characterization of Cr-based Schottky Diode on n-type 4H-SiC”  
Koliakoudakis C. , Dontas J. , Karakalos S. , Kayambaki M. , Ladas S. , Konstantinidis G. , Kennou S. , Zekentes K.  
Materials Science Forum 615-617 (2009) 651- 654
83. "A spectroscopic study for the application of a PEDOT-Type material as buffer layer in electronic devices”  
F. Petraki, S. Kennou, S. Nespurek and M. Biller  
Organic Electronics, 11 (2010) 1423-1431
84. "Tungsten oxides as interfacial layers for improved performance in hybrid optoelectronic devices”  
M. Vasilopoulou, L. C. Palilis, D. G. Georgiadou, P. Argitis, S. Kennou, I. Kostis, G. Papadimitropoulos, N. A. Stathopoulos, A. A. Iliadis, N. Konofaos and D. Davazoglou  
Thin Solid Films, **519** (2011) 5748-5753
85. "An X-ray Photoelectron Spectroscopy study of ultra-thin oxynitride films”  
S.Ladas, L. Sygellou, S.Kennou, M. Wolf, G. Roeder, A. Nutsch, M.Rambach, W.Lerch  
Thin Solid Films, **520** (2011) 871-875
86. "Reduction of tungsten oxide: a path towards dual functionality utilization as efficient anode and cathode interfacial layers in Organic Light Emitting Diodes”  
M. Vasilopoulou, L.C. Palilis, D. G. Georgiadou<sup>1</sup>, A. M. Douvas, P. Argitis, S.Kennou, L. Sygellou, G. Papadimitropoulos, I.Kostis, N. A. Stathopoulos and D. Davazoglou

87. "Reduced Molybdenum Oxide as an Efficient Electron Injection Layer in Organic Light Emitting Diodes"  
M. Vasilopoulou, L.C. Palilis, D. G. Georgiadou, P. Argitis, S. Kennou,  
L.Sygellou, I.Kostis, G. Papadimitropoulos, N. Konofaos, A. Iliadis and D.  
Davazoglou  
Appl. Phys. Letters, **98** (2011) 123301
88. "ZrO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> thin films on Ge(100) grown by ALD: An XPS Investigation"  
L.Sygellou, V. Gianneta, N. Xanthopoulos, D. Skarlatos, S. Georga, C. Krontiras,  
S.Ladas, and S Kennou  
Surface Science Spectra, 18, (2011), 58
89. "Effect of boiling aqua regia on MOCVD and MBE p-type GaN surfaces and Cr/p-GaN interfaces"  
F. G. Kalaitzakis, G. Konstantinidis, L. Sygellou, S. Kennou, S. Ladas, N. T. Pelekanos  
Microelectronic Engineering, 90 (2012) 115-117
- 89 "An interface study of ITO on PET with Nickel Phthalocyanine by photoelectron Spectroscopies : The effect of cleaning pretreatment "  
D. Tsikritzis, F. Petraki and S. Kennou  
Microelectronic Engineering, 90 (2012) 66-68
90. "Reduced Transition Metal Oxides as Electron Injection Layers in Hybrid-PLEDs Microelectronic Engineering"  
Vasilopoulou M., Georgiadou D.G., Palilis L.C., Argitis P., Kennou S., Sygellou L., Konofaos N., Davazoglou D.  
Microelectronic Engineering, 90 (2012) 59-61



91. "High performance OLEDs embedding tungsten suboxide as efficient hole injection layer"  
M. Vasilopoulou, G. Papadimitropoulos, L. C. Palilis, D. G. Georgiadou, P. Argitis, S. Kennou, I. Kostis, N. Vourdas, N. A. Stathopoulos, and D. Davazoglou  
Organic Electronics, 13 (2012) 796-806
  
92. "Barrier-less hole injection through subgap states in OLEDs using MoO<sub>x</sub> (x<3) anode interfacial layers"  
M. Vasilopoulou, L.C. Palilis, D. G. Georgiadou, S. Kennou, I. Kostis, D. Davazoglou and P. Argitis.  
Appl. Phys. Lett., 100 (2012) 013311
  
93. "Nanostructured substoichiometric tungsten oxide with semiconducting properties"  
I. Kostis, L. Michalas, M. Vasilopoulou, N. Konofaos, G. Papaioannou, A. A. Iliadis, S. Kennou, G. Papadimitropoulos and D. Davazoglou"  
J. Phys. D: Appl. Phys. 45 (2012) 445101.
  
94. "Interfacial properties of ALD-deposited Al<sub>2</sub>O<sub>3</sub> /p-type Germanium MOS structures: influence of oxidized Ge interfacial layer dependent on Al<sub>2</sub>O<sub>3</sub> thickness"  
M. Botzakaki, A. Kerasidou, L. Sygellou, V. Ioannou-Sougleridis, N. Xanthopoulos, S. Kennou, S. Ladas, N. Z. Vouroutzis, Th. Speliotis, and D. Skarlatos  
Electronic Materials and Processing , ECS Solid State Letters , 1(2) (2012), 32
  
95. "The Influence of Hydrogenation and Oxygen Vacancies on Molybdenum Oxides Work Function and Gap States for Application in Organic Optoelectronics"  
M. Vasilopoulou, , I. Kostis, L.C. Palilis, D. G. Georgiadou, S. Kennou, L. Sygellou, A. Douvas, A. Soultati, G. Papadimitropoulos, D. Davazoglou and P. Argitis.  
Journal of the American Chemical Society, 134 (39) ( 2012) 16178

96. "Atomic layer deposited ultra thin zirconium oxide electron injection/hole blocking layer for efficient organic light emitting diodes"  
L C. Palilis, M. Vasilopoulou, S.Kennou, S.N. Georga, D.Skarlatos, C.A. Krontiras, N. A. Stathopoulos, P. Argitis.  
Org. Electronics 14 (2013), 312
97. The Effect of Organic and Metal Oxide Interfacial layers on the Performance of Inverted Organic Photovoltaics  
A. Savva, F. Petraki, P. Elefteriou, L. Sygellou, M. Voigt, M.Giannouli, K. Kapnisis, S. Kennou, J. Nelson, D. D.C. Bradley, C. J. Brabec and S. A. Choulis  
Advanced Energy Materials, 3 (2013), 391
98. "Electrical characteristics of ALD deposited Al<sub>2</sub>O<sub>3</sub> thin films on p-type Germanium substrates"  
M. Botzakaki, A. Kerasidou, N. Xanthopoulos, D. Skarlatos, S. Kennou, S. Ladas, S.N. Georga, and C.A. Krontiras  
Physica Status Solidi c, 10 (1) (2013) 137-140
99. "Probing the properties of atomic layer deposited ZrO<sub>2</sub> films on p-Germanium substrates"  
A. Kerasidou, M. Botzakaki, , N. Xanthopoulos, D. Skarlatos, S. Kennou, S. Ladas, S.N. Georga, and C.A. Krontiras  
Journ. Vac. Sci. Techn. A, 31(1) (2013) 01A126-1
100. "Electronic and Interface Properties of Polyfluorene Films on GaN for Hybrid Optoelectronic Applications"  
G. Itskos, X. Xristodoulou, E. Iliopoulos, S. Ladas, S. Kennou, M. Neophytou, S. Choulis  
Appl. Phys. Lett., 102, 063303 ( 2013)
101. "Electronic properties of semiconducting naphthalene bisimide derivatives – ultraviolet photoelectron spectroscopy versus electrochemistry"

R.Rybakiewicz, P. Gawrys , D. Tsikritzis, , K. Emmanouil, S. Kennou,  
M. Zagorska, A. Pron  
Electrochimica Acta, 96 (2013) 13-17

102. Solution processable tungsten polyoxometalate as highly effective cathode interlayer for improved efficiency and stability polymer solar cells

L.C. Palilis, M. Vasilopoulou, A. M. Douvas, D.G. Georgiadou, S. Kennou, N. A. Stathopoulos, V. Constantoudis and P. Argitis  
Solar Energy Materials and Solar Cells, 114 (2013) 205-216

103. “Investigation of naphthalene bisimide derivatives / Gold interfaces: The influence of alkylthienyl groups in N-substituents on the energy levels”

D. Tsikritzis, P. Gawrys, M. Zagorska, S. Kennou  
Microelectronic Engineering, in press

104. Electronic Properties of a Perylene Bisimide interfaced with gold or aluminum: The influence of the substrate

K. Emmanouil, P. Gawrys, M. Zagorska and S. Kennou  
Microelectronic Engineering, in press

105. “ALD deposited ZrO<sub>2</sub> ultrathin layers on Si and Ge substrates: A multiple technique characterization “

M.A. Botzakaki , N. Xanthopoulos, E. Makarona, C.Tsamis, S. Kennou, S.Ladas, S.N. Georga and C.A. Krontiras  
Microelectronic Engineering, in press

### ***Publications in Conference Proceedings (9)***

1. “Formation and electronic properties of semiconducting ReSi<sub>2</sub> films on Si(111)”  
S. Kennou, T.A. Nguyen Tan and J.Y. Veuillen  
Proceedings of the 4<sup>th</sup> International Conference “Formation of Semiconductor Interfaces”, World Scientific (1993) 621

2. “Luminescence from Silicon nanostructures fabricated by using conventional lithography and reactive ion etching techniques”  
A.G. Nassiopoulou, S. Grigoropoulos, A. Travlos, S. Ladas, S. Kennou, I. Raptis and D. Papadimitriou  
Proceedings of the Electrochemical Society Meeting, Reno, Nevada, U.S.A., May 1995
3. “Ex-situ Hydrogenation of a-SiC thin films”  
J.A. Kalomiros, E.C. Paloura, A. Ginoudi, S. Kennou, S. Ladas, Ch. Lioutas, N. Vouroutzis, A. Anagnostopoulos and J. Spyridelis  
Proceedings of Greek-Bulgarian Symposium on Semiconductor Physics, Sofia, 1995
4. “Solid interface studies with applications in microelectronics”  
S. Kennou, S. Ladas, A. Siokou, I. Dontas and V. Papaethimiou  
Proceedings of First Conference on Microelectronics, Microsystems and Nanotechnology, World Scientific, 2000
5. “A study of the Ni-Phthalocyanine/gold interface using X-ray and ultraviolet photoelectron spectroscopies”  
F. Petraki, V. Papaefthimiou and S. Kennou  
Journal of Physics: Conference Series, Second Conference on Microelectronics, Microsystems and Nanotechnology, Volume 10, 2005
6. “A spectroscopic study of the interface of Nickel Phthalocyanine with PEDOT:PSS film”  
F. Petraki, S. Kennou, J. Rakusan, M. Karaskova, M. Biler and S. Nespurek  
Journal of nanostructured polymers and Nanocomposites 3/4 (2007) 136
7. “Thin Film analysis and model characterization studies in relevance to microelectronics”  
I. Dontas, V. Papaefthimiou, S. Kennou, S. Ladas

8. "Gas sensing properties of ZnO field-effect transistor enhanced by Au nanoparticles"

F.V. Farmakis, K. Alexandrou, C. Tsamis, Th. Speliotis, I. Fasaki, M. Kompitsas, S. Kennou, S. Ladas, P. Jedrasik

Eurosensors 2008

9. "Fabrication and characterization of Cr-based Schottky Diode on n-type 4H-SiC"

Koliakoudakis, C., Dontas, J., Karakalos, S., Kayambaki, M., Ladas, S., Konstantinidis, G., Kennou, S., Zekentes, K.

Materials Science Forum 615 -617, (2009) 651-654