

## CONFERENCE PRESENTATIONS

### A. International Conferences

- A.1 "Highly ordered porous alumina and porous Si films for electronic, photonic and sensor applications", A. G. Nassiopoulou (**invited talk**), REGMINA Workshop on MEMS and NEMS technologies, Belgrade, June 4-5 2009
- A.2 "Silicon nanostructuring through self-assembled masking layers", A. G. Nassiopoulou (**invited talk**), EMRS 2009\_Symposium M, Bioinspired and Biointegrated materials as new frontier nanomaterials, Strasbourg, 9-13 June 2009
- A.3 "De la Micro- à la Nanoélectronique et les Microsystèmes", A. G. Nassiopoulou (**invited talk**), International Workshop on Research, Innovation, Enterprises in Communication Technologies, 4 November 2008, Pôle Elgazala, Tunisie
- A.4 "Electronics and micromachining using porous silicon", A. G. Nassiopoulou (**invited talk**), Porous Semiconductors – Science & Technology, PSST – 2008, March 10-14 2008, Mallorca, Spain
- A.5 "Porous anodic alumina thin films on Si as masking layers for silicon surface nanostructuring and as templates for nanostructure growth", A. G. Nassiopoulou (**invited talk**), V. Gianneta, F. Zacharatos, M. Kokonou, M. Hauffman, 1st International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems, Halkidiki, Greece, 16-18 June 2008
- A.6 "The Greek micro-nanotechnology and MEMs landscape", A. G. Nassiopoulou (**invited talk**), 14th Micromachine Summit, Daejeon, Korea, April 30 – May 3, 2008
- A.7 "Silicon nanocrystals in SiO<sub>2</sub> thin layers: Growth, ordering and light emitting properties", A. G. Nassiopoulou (**invited talk**), S. Gardelis, V. Gianneta, E. Lioudakis and A. Othonos, 2008 Virtual Conference on Nanoscale Science and Technology VC-NST, July 24-29, 2008 Fayetteville, Arkansas 72701, USA
- A.8 "Enhancement and red shift of photoluminescence (PL) of fresh porous Si under prolonged laser irradiation or ageing: Role of surface vibration modes", S. Gardelis, A.G. Nassiopoulou, M. Mahdouani, R. Bourguiga, S. Jaziri, EMRS Spring Meeting, Strasbourg, France, 2008
- A.9 "Nanoelectronics, Micro and Nanosystems", A. G. Nassiopoulou, Information and Brokerage Event, Moscow, 21-23/10/2008
- A.10 "Electronics and micromachining using porous silicon", A. G. Nassiopoulou, Porous Semiconductors – Science & Technology, PSST – 2008, March 10-14 2008, Mallorca
- A.11 "Beyond Moore flexible platform at EU level for Nanoelectronics and MEMS/NEMS", A. G. Nassiopoulou, 14th Micromachine Summit, Daejeon, Korea, April 30 – May 3, 2008

- A.12** "Surface-related states in oxidized silicon nanocrystals enhance carrier relaxation and inhibit Auger recombination", A. Othonos, E. Lioudakis, A. G. Nassiopoulou, 2008 Virtual Conference on Nanoscale Science and Technology VC-NST, July 24-29, 2008 Fayetteville, Arkansas 72701, USA.
- A.13** "CMOS-integrated low-loss porous Si technology for on-chip RF inductors", F. Zacharatos, H. Contopanagos, and A. G. Nassiopoulou, 38th European Solid-State Device Research Conference (ESSDERC2008), 15-19 September 2008, Edinburgh, Scotland, U.K.
- A.14** "Structural, chemical and light emission properties of very thin anodic silicon films fabricated by short single pulses", S. Gardelis, A.G. Nassiopoulou, F. Petraki, S. Kennou, I. Tsiaoussis, N. Frangis, XXIV Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Crete, 2008, **Invited**
- A.15** "Ordering of Si and Ge nanocrystals in 2-D layers for nanodot memory devices", A. G. Nassiopoulou (**invited talk**), International Conference on Physics, Chemistry and Applications of Nanostructures, Nanomeeting 2007, Belarus, 22-25 May 2007
- A.16** "Structural and light-emitting properties of ultra thin anodic silicon films formed at the early stages of anodization of bulk silicon", S. Gardelis (**invited talk**), International Conference on Physics, Chemistry and Applications of Nanostructures, Nanomeeting 2007, Belarus, 22-25 May 2007
- A.17** "Silicon Nanocrystals embedded in SiO<sub>2</sub>: Optical and transport properties" A. G. Nassiopoulou (**invited talk**), 2nd European Optical Society Topical Meeting on Optical Microsystems, Italy, 30 September – 3 October 2007
- A.18** "Characterization of Silicon Nanocrystal non-Volatile Memory Structures with Double Nanocrystal Layers", A. G. Nassiopoulou (**invited talk**), ANNA-Analytical Network for Nanotech, held at Munich, 29 November 2007
- A.19** "Nanopatterning the Si Surface Through Porous Anodic Alumina Masking Layers", F. Zacharatos, V. Gianneta and A. G. Nassiopoulou, 3rd International Conference "Micro & Nano" 2007, held at NCSR "Demokritos", 18-21 November 2007
- A.20** "Confined porous alumina thin films on Si for local silicon substrate nanopatterning", V. Gianneta, F. Zacharatos and A. G. Nassiopoulou, Europ. Mater. Resear. Soc. (E-MRS) Conference, Symposium K, May 28th - June 1st 2007
- A.21** "Ordered highly dense macroporous Si arrays through anodic porous alumina thin films on Si", F. Zacharatos, V. Giannetta and A. G. Nassiopoulou, Europ. Mater. Resear. Soc. (E-MRS) Conference, Symposium K, May 28th - June 1st 2007
- A.22** "Determination of critical points of nanocrystalline silicon films: the role of grain boundaries in the optical properties", E. Lioudakis, A. Othonos and A. G. Nassiopoulou, 3rd International Conference "Micro & Nano" 2007, held at NCSR "Demokritos", 18-21 November 2007
- A.23** "Self-assembly of Si nanostructures on nanopatterned substrates: Application in nanocrystal memories" (**invited talk**) A. G. Nassiopoulou, 4th International Workshop on Nanosciences & Nanotechnologies (N&N07), Thessaloniki, 16-18 July 2007
- A.24** "Broadband Electrical characterization of Porous Silicon at Microwave Frequencies", H. Contopanagos, D. Pagonis and A. G. Nassiopoulou, 3rd International Conference "Micro & Nano" 2007, held at NCSR "Demokritos", 18-21 November 2007
- A.25** "Monitor the properties of silicon nanocrystals embedded in SiO<sub>2</sub> matrix using ultrashort laser pulses", E.Lioudakis, A. Othonos, A. Emporas and A. G. Nassiopoulou, 3rd International Conference "Micro & Nano" 2007, held at NCSR "Demokritos", 18-21 November 2007

- A.26** "Copper-filled macroporous Si for microchannel heat sink technology", F. Zacharatos and A. G. Nassiopoulou, 13th Thermic Workshop, 17 – 19 September 2007 Budapest
- A.27** "Anodic Porous Alumina Thin Films on Si: Interface Characterization", V. Gianneta, S. N. Georga, C. A. Krontiras, A. G Nassiopoulou, 3rd International Conference "Micro & Nano" 2007, held at NCSR "Demokritos", 18-21 November 2007
- A.28** "Auger Recombination in Silicon Nanocrystals", M. Mahdouani, R. Bourguiga, S. Jaziri, S. Gardelis, A.G. Nassiopoulou, 3rd International Conference "Micro & Nano" 2007, held at NCSR "Demokritos", 18-21 November 2007
- A.29** "Assembly and electrical investigation of tiopronin- and citrate-stabilized Au nanoparticle chains between electrodes on patterned oxidized Si substrates under the influence of an electric field", A Zoy and A G Nassiopoulou, 3rd International Conference "Micro & Nano" 2007 , held at NCSR "Demokritos", 18-21 November 2007
- A.30** "TEM characterization of ultra-thin nanocrystalline Si films grown on quartz and presenting quantum properties", Ch.B. Lioutas, N. Vouroutzis, I. Tsiaoussis, N. Frangis and A.G. Nassiopoulou, 3rd Intern. Conf. "Micro & Nano" 2007, held at NCSR "Demokritos", 18-21 November 2007
- A.31** "Structural study of ultra thin anodic silicon layers for nanoelectronic and photonic applications", S. Gardelis, F. Petraki, S. Kennou, A. G. Nassiopoulou, 3rd International Conference Micro & Nano 2007, held at NCSR "Demokritos", 18-21 November 2007
- A.32** "Copper Wires in Macroporous Si for Microchannel Heat Sink Technology", F. Zacharatos and A. G. Nassiopoulou, Micro&Nano 2007, 18-21 November 2007 Athens
- A.33** "A thermal vacuum detector fabricated by a combination of MEMS and PCB technologies", A. Petropoulos, G. Kaltsas, A. G. Nassiopoulou, 3rd International Conference "Micro & Nano" 2007, held at NCSR "Demokritos", 18-21 November 2007
- A.34** "Fabrication and evaluation of a gas flow sensor, implemented on organic substrates by a novel integration technology", A. Petropoulos, G. Kaltsas, A. G. Nassiopoulou, 3rd International Conference "Micro & Nano" 2007, held at NCSR "Demokritos", 18-21 November 2007
- A.35** "Copper Wires in Macroporous Si Template for Microchannel Heat Sink Technology", F. Zacharatos and A. G. Nassiopoulou, 3rd International Conference "Micro & Nano" 2007, held at NCSR "Demokritos", 18-21 November 2007
- A.36** "Dielectric Characterization of Macroporous Silicon Thick Layers For Use As Capacitors In High Voltage Application", M. Theodoropoulou, D. N. Pagonis, A. G. Nassiopoulou, C. A. Krontiras, S. N. Georga, 3rd Intern. Conf. "Micro & Nano" 2007, held at NCSR "Demokritos", 18-21 November 2007
- A.37** "Semiconductor quantum dots for nanoelectronic devices and on-chip integration", A. G. Nassiopoulou (**Invited Talk**), third Workshop on functional materials, FMA 2006, September 17-23 2006, Athens, Greece
- A.38** "Micro-Nanoelectronics-Nanotechnology. The world of the infinitely small", A. G. Nassiopoulou (**Invited Talk**), 4th International Student Conference of the Balkan Physical Union, ISCBPU-4, Bodrum, 29/8-1/8/2006
- A.39** "Lateral ordering of semiconductor nanocrystals within SiO<sub>2</sub> for non-volatile memories and other nanoelectronic devices", A. G. Nassiopoulou (**Invited Talk**), NANOMAT-2006, Antalya, 21-23 June 2006

- A.40** “Porous silicon for on-chip integration”, A. G. Nassiopoulou (**Invited Talk**), PSST-2006, Barcelona-Spain, 12-17 March 2006
- A.41** “Silicon nanocrystal non-volatile memory devices”, A. G. Nassiopoulou (**Invited Talk**), SINANO Workshop, Montreux, 22/9/2006
- A.42** “Porous silicon for sensors and on-chip integration of RF components”, A. G. Nassiopoulou (**Invited Talk**), 42th International Conference on Microelectronics, Devices and Materials and Workshop on MEMs, NEMs, September 13-15, 2006, Slovenia
- A.43** “Lateral ordering of semiconductor nanocrystals within SiO<sub>2</sub> for nanoelectronic devices”, A. G. Nassiopoulou (**Invited Talk**), 3rd Workshop N&N, Thessaloniki, 10-12 July 2006
- A.44** “Light emission from silicon: Reality or dream?”, A. G. Nassiopoulou (**Invited Talk**), 1st International Workshop on Transparent Conductive Oxides (IS-TCO 2006), Crete, 23-25 October, 2006
- A.45** “Microelectronics-Nanotechnology: Present status and future trends”, A. G. Nassiopoulou (**Invited Lecture**), University of Thessaloniki, Physics Department, New year opening ceremony, 18/10/2006
- A.46** "Quantum wires and dots, applications in Nanoelectronics and sensors", A. G. Nassiopoulou (**Invited Lecture**), University of Thessaloniki, N&N, New year opening ceremony, 18/10/2006
- A.47**
- “High density of silicon nanocrystals nucleated on oxidized or non-oxidized stepped silicon substrates patterned by electrochemistry”, M. Kokonou, A. G. Nassiopoulou and K. P. Giannakopoulou, European Materials Research Society Spring Meeting (E-MRS 2006), Nice, France, May 29 – June 2, 2006
- A.48** “Doubly stacked silicon nanocrystal memory structures with improved charge retention time”, A. G. Nassiopoulou and A. Salonidou, European Materials Research Society Spring Meeting (E-MRS 2006), Nice, France, May 29 – June 2, 2006
- A.49** “Photoluminescence properties and passivation of thin porous silicon films grown in the transition regime”, S. Gardelis and A. G. Nassiopoulou, European Materials Research Society Spring Meeting (E-MRS 2006), Nice, France, May 29 – June 2, 2006
- A.50**
- “Quantum confinement and interface structure of large Si nanocrystals embedded in a-SiO<sub>2</sub>”, E. Lioudakis, G. C. Hadjisavvas, P. C. Kelires, A. G. Nassiopoulou and A. Othonos, European Materials Research Society Spring Meeting (E-MRS 2006), Nice, France, May 29 – June 2, 2006
- A.51** “New challenges in nanoelectronics and sensors”, A. G. Nassiopoulou, (**invited talk**), WSEAS Intern. Conference on Engineering Education, July 8-10, 2005, Athens, Greece
- A.52** “Silicon nanocrystals in thin SiO<sub>2</sub> layers for light emission and nonvolatile memories”, A. G. Nassiopoulou, (**invited talk**), First International Workshop on Semiconductor Nanocrystals (SEMINANO 2005), September 10-12, 2005, Budapest Hungary
- A.53** "From Micro to Nanoelectronics and Nanotechnology: a revolutionary development", A. G. Nassiopoulou (**invited talk, award of honorary plaque**), Workshop on Micro and Nanoelectronics", TEI Lamias, 18 May 2005
- A.54** “From Micro to Nanoelectronics and Nanotechnology: Contribution to Society and National Economies”, A. G. Nassiopoulou (**invited talk**), Workshop on “Physics and the other Sciences”, Thessaloniki, 9 December 2005

- A.55** “Nanotechnology at IMEL with applications in ICT, Health Care and Environment”, A. G. Nassiopoulou (**invited talk**), Workshop: “NCSR Demokritos in a knowledge-based society”, Zappio, 6 July 2005
- A.56** “More than Moore: Technologies for Nanoelectronics, MEMs and other emerging applications”, Androula G. Nassiopoulou (**invited talk**), ISNM 2005 (Third International Symposium on Nanomanufacturing), Limassol. Cyprus, November 3-5, 2005
- A.57** “Study of a Novel Thermal Accelerometer System”, G. Kaltsas, D. Goustouridis and A. G. Nassiopoulou, Eurosensors XIX, Barcelona, Spain, Sept. 11-14, 2005
- A.58** "Technology for the formation of Macroporous silicon over Cavity", D.N. Pagonis, J. Semai and A.G. Nassiopoulou, International Conference on Micro and Nano Engineering, Vienna, Austria 19-22 Sept., 2005
- A.59** "Free-Standing Macroporous Silicon Membranes Over Nanoporous/Cavity by Electrochemical Process" , D. N. Pagonis, J. Semai and A. G. Nassiopoulou, 3rd International Symposium on Nanomanufacturing (ISNM 2005), Nicosia, Cyprus, November 3-5, 2005
- A.60** “Arrays of SiO<sub>2</sub> nanoislands grown electrochemically on Si through nanoporous anodic alumina”, M. Kokonou, A. G. Nassiopoulou and K. P. Giannakopoulos, 3rd International Symposium on Nanomanufacturing (ISNM 2005), Nicosia, Cyprus, November 3-5, 2005
- A.61** “Interband transitions in Si Nanostructures within effective mass approximation”, X. Zianni, A. G. Nassiopoulou, (**Invited talk**), International Conference Nanomeeting 2003, Minsk, Belarus (May, 2003)
- A.62** “FORUM FIB: Fabrication organisation and use of memories obtained by Focused Ion Beam”, I. Berbezier, A. Karmous, A. Ronda, T. Stoica, R. Geurt and A.G. Nassiopoulou, 2nd International Conference on Microelectronics, Microsystems and Nanotechnology (MMN 2004), November 14-17, Athens, Greece
- A.63** “Ultrafast carrier dynamics in highly implanted and annealed polycrystalline silicon films”, E. Lioudakis, A. Othonos and A.G. Nassiopoulou, 2nd International Conference on Microelectronics, Microsystems and Nanotechnology (MMN 2004), November 14-17, Athens, Greece
- A.64** “Simultaneous use of flow and pressure sensors for flow determination in both laminar and turbulent regions”, G. Kaltsas, D. Goustouridis, A. G. Nassiopoulou and D. Tsoukalas, 2nd International Conference on Microelectronics, Microsystems and Nanotechnology (MMN 2004), November 14-17, Athens, Greece
- A.65** “Nanotemplate alumina films on a silicon substrate fabricated by electrochemistry”, M. Kokonou, A. G. Nassiopoulou, K. P. Giannakopoulos and N. Boukos, 2nd International Conference on Microelectronics, Microsystems and Nanotechnology (MMN 2004), November 14-17, Athens, Greece
- A.66** “Generation of guided terahertz electromagnetic waves in semiconductor superlattices”, R. H. Tarkhanyan and A.G. Nassiopoulou, 2nd International Conference on Microelectronics, Microsystems and Nanotechnology (MMN 2004), November 14-17, Athens, Greece
- A.67** “Investigation of electronic conductivity of nanoparticle coated microcrystals”, A. Zoy, A. G. Nassiopoulou, M. Murugesan and B. Moore, 2nd International Conference on Microelectronics, Microsystems and Nanotechnology (MMN 2004), November 14-17, Athens, Greece

- A.68** “Investigation of different operation modes of a micromechanical thermal flow sensor, using a microcontroller-based interface circuit”, P. Asimakopoulos, G. Kaltsas and A. G. Nassiopoulou, 2nd International Conference on Microelectronics, Microsystems and Nanotechnology (MMN 2004), November 14-17, Athens, Greece
- A.69** “Influence of near interface oxide traps on the charging characteristics of Si nanocrystals embedded within SiO<sub>2</sub>”, V. Ioannou-Sougleridis and A. G. Nassiopoulou, 2nd International Conference on Microelectronics, Microsystems and Nanotechnology (MMN 2004), November 14-17, Athens, Greece
- A.70** “Stress characteristics of suspended Porous Silicon microstructures on silicon”, K. Anestou, D. Papadimitriou, C. Tsamis and A. G. Nassiopoulou, 2nd International Conference on Microelectronics, Microsystems and Nanotechnology (MMN 2004), November 14-17, Athens, Greece
- A.71** “Silicon nanocrystal memory cells by low pressure chemical vapor deposition of amorphous silicon on SiO<sub>2</sub> and oxidation”, E. Tsoi, P. Normand, A. G. Nassiopoulou, V. Ioannou-Sougleridis and A. Salonidou, 2nd International Conference on Microelectronics, Microsystems and Nanotechnology (MMN 2004), November 14-17, Athens, Greece
- A.72** “Density of interface traps in ultra thin porous anodic alumina films on silicon”, M. Theodoropoulou, P. K. Karahaliou, S. N. Georga, C. A. Krontiras, M. N. Pisanias, M. Kokonou and A. G. Nassiopoulou, 2nd International Conference on Microelectronics, Microsystems and Nanotechnology (MMN 2004), November 14-17, Athens, Greece
- A.73** “Ordered 2-D arrays of Ge quantum dots embedded in ultra thin SiO<sub>2</sub>”, A. Olzierski, A. G. Nassiopoulou and A. Travlos, European Materials Research Society Conference (EMRS 2004), Strasbourg, France
- A.74** “Very thin anodic alumina films with ordered pore arrays on a silicon substrate”, M. Kokonou, A. G. Nassiopoulou and K. P. Giannakopoulos, International Conference on Porous Semiconductor Science and Technology (PSST 2004), Valencia, Spain, March 14-19, 2004
- A.75** “Photoluminescence of very thin anodic alumina films on a silicon substrate”, M. Kokonou and A. G. Nassiopoulou, International Conference on Porous Semiconductor Science and Technology (PSST 2004), Valencia, Spain, March 14-19, 2004
- A.76** “A CMOS compatible thermal accelerometer without solid proof mass, based on porous silicon thermal isolation”, G. Kaltsas, D. Goustouridis and A. G. Nassiopoulou, IEEE Sensors 2004, Vienna, Austria, October 24-27, 2004
- A.77** “A CMOS compatible process for porous silicon/air cavity formation for application in thermal sensors and microfluidic devices”, D. N. Pagonis, A. G. Nassiopoulou and G. Kaltsas, 4th Int. Con. on Porous Semiconductors Science and Technology (PSST 2004), Cullera-Valencia, Spain, March 14-19, 2004
- A.78** “Porous silicon micro-hotplates for low power thermal sensors. Measurements at reduced pressures and estimation of porous silicon thermal conductivity”, C. Tsamis, K. Spyropoulos and A.G. Nassiopoulou, 4<sup>th</sup> International Conference on “Porous Semiconductors Science and Technology”, PSST 2004, Valencia, Spain March 2004

- A.79** “Low dimensional Si or Ge for application in nanodevices”, A. G. Nassiopoulou, (**Invited talk**), International Workshop on ultimate Lithography and Nanodevice Engineering, Agelonde, France, 13-16 June 2004
- A.80** “2-D arrays of Semiconductor nanocrystals in thin SiO<sub>2</sub> layers application in quantum dot memories”, A. G. Nassiopoulou, (**Invited talk**), E-MRS spring Meeting Symposium I, May 24-28, 2004
- A.81** “Low-dimensional Si for optoelectronics and memory devices, A. G. Nassiopoulou, (**Invited talk**), NATO Advanced Study Institute on Nanostructured and Advanced Materials for Optoelectronic, Photovoltaic & Sensor applications, Sozopol, Bulgaria, September 6-17, 2004
- A.82** “Porous silicon for sensor applications”, A. G. Nassiopoulou, (**Invited talk**), NATO Advanced Study Institute on Nanostructured and Advanced Materials for Optoelectronic, Photovoltaic & Sensor applications, Sozopol, Bulgaria, September 6-17, 2004
- A.83** “The influence of thermal treatment on the stress characteristics of suspended Porous Silicon membranes on silicon”, D. Papadimitriou, C. Tsamis and A. Nassiopoulou, Eurosensors XVII, Guimaries, Portugal, (September 21 - 24, 2003)
- A.84** “Flow study in both turbulent and laminar flow with a system of thermal flow and capacitive pressure sensors”, G. Kaltsas, D. Goustouridis, A. G. Nassiopoulou, D. Tsoukalas , S.Chantzandroulis, “EUROSENSORS XVII, p.22 Guimaraes Portugal, (September 21-24, 2003)
- A.85** “Fabrication of suspended membranes for thermal sensors using high-density plasma etching”, Tserepi, C. Tsamis, E. Gogolides and A. G. Nassiopoulou, International Symposium on “Design, Test, Integration and Packaging of MEMS/MOEMS”, DTIP 2002, Cannes-Mandelieu, France, May 2002
- A.86** “Fabrication of suspended porous silicon micro-hotplates for thermal sensor applications”, C. Tsamis, A. Tserepi and A. G. Nassiopoulou, 3<sup>rd</sup> International Conference on “Porous Semiconductor Science and Technology”, PSST 2002, Tenerife, Spain, March 2002
- A.87** “Dry etching of Porous Silicon in High Density Plasmas”, A. Tserepi, C. Tsamis, E. Gogolides and A. G. Nassiopoulou, 3<sup>rd</sup> International Conference on “Porous Semiconductor Science and Technology”, PSST 2002, Tenerife, Spain, March 2002
- A.88** “Transient and AC electrical conductivity of porous silicon thin films”, M. Theodoropoulou, C. A. Krontiras, N. Xanthopoulos, S. N. Georga, M. N. Pisanias, C. Tsamis and A. G. Nassiopoulou, 3<sup>rd</sup> International Conference on “Porous Semiconductor Science and Technology”, PSST 2002, Tenerife, Spain, March 2002
- A.89** “Multi-component behavior of the photoluminescence lifetime in porous Si”, X Zianni and A.G. Nassiopoulou, 3<sup>rd</sup> International Conference on “Porous Semiconductor Science and Technology”, PSST 2002, Tenerife, Spain, March 2002
- A.90** “Thermal properties of suspended porous silicon micro-hotplates for thermal sensor applications”, C. Tsamis, A. Tserepi and A. G. Nassiopoulou, Eurosensors XVI, Prague, Czech Republic, September 15-18, 2002
- A.91** “Implantation Masking Technology for Selective Porous Silicon Formation”, D. Pagonis, G. Kaltsas and A. G. Nassiopoulou, 3<sup>rd</sup> International Conference on “Porous Semiconductor Science and Technology”, PSST 2002, Tenerife, Spain, March 2002

- A.92** “High Density of Silicon Nanocrystals of Uniform Sizes in Porous Alumina. Highly Efficient Photoluminescence”, M. Kokonou, S. Lazarouk, A. G. Nassiopoulou, A. Travlos, G. Kaltsas, D. Pagonis, 3<sup>rd</sup> International Conference on “Porous Semiconductor Science and Technology”, PSST 2002, Tenerife, Spain, March 2002
- A.93** “A novel method for the fabrication of suspended porous silicon membranes for chemical sensors”, C. Tsamis, A. Tserepi and A. G. Nassiopoulou, International Meeting on Chemical Sensors, Boston, 7-10 July 2002, USA
- A.94** “Calculated PL lifetimes of Si nanowires: The effect of direct and indirect transitions”, X Zianni and A. G. Nassiopoulou, European Materials Research Society Conference E-MRS 2002, Strasbourg, June 18-21, 2002
- A.95** “Gas Flow Meter for Applications in Medical Equipment for Respiratory Control - Study of the Package and Housing”, G. Kaltsas and A. G. Nassiopoulou, EUROSENSORS XVI - 16th European Conference on Solid-State Transducers, Prague, Czech Republic, Sept. 15-18, 2002
- A.96** “Highly efficient photoluminescence from silicon nanocrystals in porous alumina”, M. Kokonou, A. G. Nassiopoulou, S. Lazarouk and A. Travlos, European Materials Research Society Conference E-MRS 2002, Strasbourg, June 18-21, 2002
- A.97** “Charging effects in nanocrystals embedded in SiO<sub>2</sub> films”, D. N. Kouvatso, V. Ioannou-Sougleridis and A. G. Nassiopoulou, European Materials Research Society Conference E-MRS 2002, Strasbourg, June 18-21, 2002
- A.98** “Electric field induced blue shift of the photoluminescence from silicon nanocrystals in SiO<sub>2</sub>”, A. G. Nassiopoulou, T. Ouisse and V. Ioannou-Sougleridis, European Materials Research Society Conference E-MRS 2002, Strasbourg, June 18-21, 2002
- A.99** “Temperature dependence of the transient and ac conductivity of porous silicon thin films”, M.Theodoropoulou, C.A.Krontiras, N.Xanthopoulos, S.N.Georga, M.N.Pisaniias C. Tsamis and A.G.Nassiopoulou, European Materials Research Society Conference E-MRS 2002, Strasbourg, June 18-21, 2002
- A.100** “Carrier transport and electroluminescence in Si/CaF<sub>2</sub> superlattices”, (**invited talk**), V. Ioannou-Sougleridis, A. G. Nassiopoulou, T. Ouisse, F. Bassani and F. Arnaud d’Avitaya, International Conference Nanomeeting 2001, Minsk, Bellarussia, 22-25 May
- A.101** “Emission and absorption in Si quantum wires”, X Zianni and A.G. Nassiopoulou, Nanomeeting 2001, Minsk, Bellarussia, 22-25 May
- A.102** “Stabilization of Power Consumption of the Heater of a Micromachined Silicon Gas Flow Sensor”, A. Nassiopoulos, G. Kaltsas and A. G. Nassiopoulou, IEEE International Conference on Electronics, Circuits, and Systems (ICESC) 2001, Malta, Sep. 2-5, 2001 (IEEE Part, vol.1, 2001, pp.121-4, Piscataway, NJ, USA)
- A.103** “MEMs and Silicon Sensors at IMEL”, 6th World Micromachine Summit, Hiroshima, Japan, April 10-12, 2000
- A.104** “Nanocrystalline Si in Si/SiO<sub>2</sub> superlattices. Properties and applications”, A. G. Nassiopoulou, 1st International Conference MMN 2000, Athens, 20-22 November 2000
- A.105** “Integrated gas flow sensor fabricated by porous Si technology”, G. Kaltsas and A. G. Nassiopoulou, 1st International Conference MMN 2000, Athens, 20-22 November 2000



- A.106** “Radiative recombination in Si/SiO<sub>2</sub> superlattices”, A. G. Nassiopoulou, P. Photopoulos, T. Ouisse and D. Kouvatsos, 1st International Conference MMN 2000, Athens, 20-22 November 2000
- A.107** “Emission and abortion in Si quantum wires grown in (100) plane”, X. Zianni and A. G. Nassiopoulou, 1st International Conference MMN 2000, Athens, 20-22 November 2000
- A.108** “Electrical modelling and characterization of Si/SiO<sub>2</sub> superlattices”, T. Ouisse, A. G. Nassiopoulou, D. N. Kouvatsos, MMN 2000 Conference, Athens, 20-22 November 2000
- A.109** “Vertical transport mechanisms ins nc-Si/CaF<sub>2</sub> superlattices”, V. Ioannou-Sougleridis, T. Ouisse and A. G. Nassiopoulou, MMN 2000 Conference, Athens, 20-22 November 2000
- A.110** “Electroluminescence from nc-Si/CaF<sub>2</sub> superlattices”, V. Ioannou-Sougleridis, T. Ouisse and A. G. Nassiopoulou, MMN 2000 Conference, Athens, 20-22 November 2000
- A.111** “Effectiveness of local thermal isolation by porous silicon in silicon thermal sensor”, D.Pagonis, C. Tsamis and A. G. Nassiopoulou, MMN 2000 Conference, Athens, 20-22 November 2000
- A.112** “Thermal conductivity of porous silicon layers probed by micro-Raman spectroscopy”, D. Papadimitriou, L. Tsoura, C. Tsamis and A. G. Nassiopoulou, MMN 2000 Conference, Athens, 20-22 November 2000
- A.113** “Ag-Co multilayers: From film growth to GMR sensor”, M. Angelakeris, P.Poulopoulos, O. Valassiades, I. Stoemenos, N. K. Flevaris, D. Niarchos, A. G. Nassiopoulou, International Symposium on Spin-Electronics, Halle (Germany), 3-6 July 2000
- A.114** “GMR study leading to sensor fabrication on the Ag-Co system”, M. Angelakeris, P. Poulopoulos, O. Valassiades, N. K. Flevaris, D. Niarchos, A. G. Nassiopoulou, in 3<sup>rd</sup> European Conference on Magnetic Sensors and Actuators, Dresden (Germany), 19-21 July 2000
- A.115** “Interband transitions in Si quantum wires grown in {100} plane”, X. Zianni and A.G. Nassiopoulou, International Materials Research Society Conference MRS 2000, 27-30 November 2000, Boston.
- A.116** “Light emitting properties of nc-Si/SiO<sub>2</sub> single and multilayer structures” P. Photopoulos, A. G. Nassiopoulou and A. Travlos, Symposium on Microcrystalline and Nanocrystalline Semiconductors, European Materials Research Society Conference (E-MRS 1999), Strasbourg, May 1999
- A.117** “Dielectric characteristics of nc-Si/CaF<sub>2</sub> multi-quantum wells”, V. Tsakiri, V. Ioannou-Sougleridis, A. G. Nassiopoulou, F. Bassani, S. Menard, F. Arnaud d’ Avitaya, Symposium on Microcrystalline and Nanocrystalline Semiconductors, European Materials Research Society Conference (E-MRS 1999), Strasbourg, May 1999
- A.118** “Low temperature Raman and photoluminescence study of Si/CaF<sub>2</sub> multiquantum wells” D. Papadimitriou, A. G. Nassiopoulou, F. Bassani and F. Arnaud d’ Avitaya, Symposium on Microcrystalline and Nanocrystalline Semiconductors, European Materials Research Society Conference (E-MRS 1999), Strasbourg, May 1999
- A.119** “Nanocrystalline silicon for light emitting devices”, A. G. Nassiopoulou (**invited talk**) International Conference Nanomeeting 99, Minsk, Belarus, 17-21 May 1999

- A.120** “Nanocrystalline silicon superlattices for visible light emission and novel memory devices”, A.G.Nassiopoulou (**invited talk**), International Conference OPTDIM-99, Kiev, 7-9 October 1999
- A.121** “Nanocrystalline silicon for microelectronic applications” A. G. Nassiopoulou (**invited talk**) 8th Greek National Physics Conference. Olympia, Greece 28-31 January 1999
- A.122** “Trapping levels in (nc-Si/CaF<sub>2</sub>)<sub>n</sub> multiquantum wells”, V. Ioannou-Sougleridis and A. G. Nassiopoulou, European Materials Research Society Conference (E-MRS 1999), May30-June 2, 2000-Strasbourg, France
- A.123** “Photo-and Electroluminescence from Si/SiO<sub>2</sub> superlattices”, P. Photopoulos, A. G. Nassiopoulou and D. Kouvatsos, European Materials Research Society Conference (E-MRS 1999), May30-June 2, 2000-Strasbourg, France
- A.124** “Electrical and Optical characterization of light emitting devices based on Si/CaF<sub>2</sub> multilayers”, A. G. Nassiopoulou, V. Tsakiri, V. Ioannou-Sougleridis, P. Photopoulos, S. Menard, F. Bassani, F. Arnaud d’ Avitaya (**invited talk**), European Materials Research Society Conference (E-MRS 1998), Symposium B-II3, Strasbourg, June 1998
- A.125** “Visible and near IR electroluminescence from nc-Si”, A. G. Nassiopoulou and P. Photopoulos, European Conference PHASDOM’98, Switzerland, October 1998
- A.126** “Carrier transport in Si/CaF<sub>2</sub> multi quantum wells”, A. G. Nassiopoulou, V. Ioannou-Sougleridis, V. Tsakiri, S. Menard, F. Bassani, F. Arnaud d’ Avitaya, International Materials Research Society Conference (MRS 98), Boston, November 30 - December 4, 1998
- A.127** “High pressure studies on the origin of porous silicon photoluminescence”, D. Papadimitriou, Y. S. Raptis, G. Kaltsas and A. G. Nassiopoulou, Intern. Confer. on porous Semiconductors Science and Technology (PSST-1998), abstract 024, Mallorca, Spain, March 1998
- A.128** “Detailed study on the polarization dependence of Raman scattering and photoluminescence emission of silicon [001] quantum wires”, D. Papadimitriou and A. G. Nassiopoulou, Intern. Conf. on Porous Semicond. Sci. & Techn (PSST-1998), abstract P1-02, Mallorca, Spain, March 1998
- A.129** “Porous silicon technology for bulk silicon micromachining and thermal isolation”, G. Kaltsas and A. G. Nassiopoulou, Intern. Conf. on Porous Semiconductors Science and Technology (PSST-1998), Mallorca, Spain, 16-20 March 1998
- A.130** “Novel C-MOS compatible silicon gas flow sensor with porous silicon thermal isolation”, G. Kaltsas, A. G. Nassiopoulou, Eurosensors XII, Southampton, 13-16 September 1998
- A.131** “Giant magnetoresistance Co/Cu multilayer sensors for use in magnetic field mapping”, C. Christides, S. Stavroyiannis, G. Kallias, A. G. Nassiopoulou and D. Niarchos, Eurosensors XII, Southampton, 13-16 September 1998
- A.132** “Low dimensional silicon for integrated optoelectronics”, A. G. Nassiopoulou (**invited talk**), International Semiconductor Conference (CAS’98), Sinaia, Romania October 6-10, 1998

- A.133** “Electrical characterization of electroluminescent devices based on silicon silicon nanocrystallites on thin SiO<sub>2</sub> layers”, V. Ioannou-Sougleridis, A. G. Nassiopoulou, P. Photopoulos, V. Tsakiri and A. Travlos, II Intern. Symp. Light Emitting Low Dimensional Silicon Structures” Lagonissi Attikis, Greece, June 1997
- A.134** “Electroluminescence from Si/CaF<sub>2</sub> multilayers grown by MBE”, V. Ioannou-Sougleridis, V. Tsakiri, P. Photopoulos, A. G. Nassiopoulou, F. Bassani, L. Vervoort, F. Arnaud d’Avitaya, II Intern. Symp. Light Emitting Low Dimensional Silicon Structures” Lagonissi Attikis, Greece, June 1997
- A.135** “Hydrostatic pressure effects on the photoluminescence and Raman scattering in free standing porous silicon of variable porosity”, D. Papadimitriou, Y. S. Raptis, A. G. Nassiopoulos, G. Kaltsas, II International Symposium on Light emitting Low Dimensional silicon structures, Lagonissi Attikis, Greece, June 1997
- A.136** “Porous Silicon of Variable Porosity under Hydrostatic Pressure: Raman and Photoluminescence studies”, D. Papadimitriou, Y. S. Raptis, A. G. Nassiopoulos, G. Kaltsas, II-International Symposium on light emitting low dimensional silicon structures, Lagonissi-Attiki, 23-25 June 1997
- A.137** “Effect of Silicon Surface Pre-oxidation on Porous Silicon formation”, P. Photopoulos, A. G. Nassiopoulos and E. Valamontes, II-International Symposium on light emitting low dimensional silicon structures, Lagonissi-Attiki, 23-25 June 1997
- A.138** “Micro-Raman characterization of stress distribution within free standing mono- and poly-crystalline silicon membranes”, M. Siakavellas, E. Anastassakis, G. Kaltsas, A. G. Nassiopoulos, International Micro and Nano Engineering Conference (MNE), Athens Greece, 15-18 Sept. 1997
- A.139** “Stress effect on suspended polycrystalline silicon membranes fabricated by using porous silicon micromachining”, G. Kaltsas, A. G. Nassiopoulos, H. Talaat, Eurosensors XI, Warsaw, Poland, Sept. 21-24, 1997
- A.140** “Microraman study of mechanical stress in polycrystalline silicon bridges”, H. Talaat, S. Negm, H. Schaffer, G. Kaltsas and A. G. Nassiopoulos, International Materials Research Society Conference (MRS 97), Boston, December 1997
- A.141** “Raman Microprobe Analysis of strained polysilicon deposited layers”, H. Talaat, S. Negm, H. E. Schaffer, F. Adar and A. G. Nassiopoulos, ICFSI-6, 6<sup>th</sup> International Conference on the formation of Semiconductor Interfaces, Cardiff, 23-27 June 1997
- A.142** “Electroluminescent Solid State Devices based on Silicon Nanowires, Fabricated by using Lithography and Etching Techniques”, A. G. Nassiopoulos, S. Grigoropoulos and D. Papadimitriou, European E-MRS Conference, Strasbourg, May 1996
- A.143** “Silicon Macromachining using Porous Silicon Technology”, G. Kaltsas and A. G. Nassiopoulos, “International Conference on Micro- and Nano-Engineering 96”, Glasgow, 22-25 September 1996
- A.144** “Low dimensional silicon for Integrated Optoelectronics”, A. G. Nassiopoulou (**Invited Lecture**), University of Linjoping, Sweden, 5 September 1996

- A.145** “Comparison of Scanning X-ray Microfluorescence and Energy Dispersive X-ray Analysis for the Elemental Characterization of Thin Coatings”, E. Valamontes and A. G. Nassiopoulos, International Conference EMAS’95, Microbeam Analysis Society, St Malo, 14-19 May 1995
- A.146** “Electron Probe X-ray Analysis of Coatings. Sensitivity and Resolution”, E. Valamontes and A. G. Nassiopoulos, International Conference EMAS’95, Microbeam Analysis Society, St Malo, 14-19 May 1995
- A.147** “Application of the Boltzmann transport equation to the thickness determination of thin films”, G. Kaltsas, N. Glezos, E. Valamontes, A. G. Nassiopoulos, International Conference EMAS’95, Microbeam Analysis Society, St Malo, 14-19 May 1995
- A.148** “Erbium silicide films on (100) silicon, grown in high vacuum: fabrication and properties”, G. Kaltsas, A. Travlos, P. Revva, A. G. Nassiopoulos, A. Traverse, European Conference E-MRS Spring Meeting, Strasbourg, May 1995
- A.149** “High Crystalline Quality Erbium Silicide Films on (100) Silicon, Grown in High Vacuum”, G. Kaltsas, A. G. Nassiopoulos, A. Travlos, N. Frangis, J. Van Landuyt International Conference: Silicon Heterostructures: From Physics to Devices, Crete, September 1995
- A.150** “Characterization of Light Emitting Silicon nanopillars produced by lithography and etching”, S. Grigoropoulos, A. G. Nassiopoulos, A. Travlos, D. Papadimitriou, S. Kennou and S. Ladas, International Conference on Si heterostructures: from Physics to devices, Crete, Greece, September 1995
- A.151** "Photoluminescence from sub-ten nanometer Si pillar arrays", A. G. Nassiopoulos (**invited talk**), 3rd International Symposium on quantum confinement: Quantum wires and dots, 188th Meeting of the Electrochemical Society, Chicago, Illinois, October 1995
- A.152** “Progress Towards Silicon Optoelectronics Using Porous Silicon Technology and Other Luminescent Silicon Nanostructures”, A.G. Nassiopoulos (**invited talk**) Eastman Kodak Company, Rochester, New York, October 16, 1995
- A.153** “Optoelectronics devices based on porous silicon and other silicon nanostructures” A. G. Nassiopoulou (**invited talk**), University of Cyprus, 14 November 1995
- A.154** “Progress Towards Silicon Optoelectronics Using Porous Silicon Technology and Other Luminescent Silicon Nanostructures”, A. G. Nassiopoulos (**invited talk**), Eastman Kodak Company, Rochester, New York, October 16, 1995
- A.155** "Optoelectronics devices based on porous silicon and other silicon nanostructures", A. G. Nassiopoulou (**invited talk**), University of Cyprus, 14 November 1995
- A.156** "Titanium and Tantalum silicides for micron and sub-micron C-MOS circuits", A. G. Nassiopoulos (**invited talk**), 16th SPIG Conference, Belgrade 1994
- A.157** “One-and two-dimensional silicon nanostructure fabrication for light emission studies”, A. G. Nassiopoulos, S. Grigoropoulos, E. Gogolides and D. Papadimitriou, Joint E-MRS/C-MRS Conference, Beijing, December 1994
- A.158** “TiSi<sub>2</sub>/Si interface of silicide formed by annealing of multilayer Ti/Si structures on silicon”, A.G. Nassiopoulos, N.Frangis, A.Travlos and P.Revva, Inst. Phys. Conf. Series 134(4), (1993) 199

- A.159** “Electron Probe Microanalysis of thin overlayers. Different contributions to the total signal and point-to-point resolution, calculated by Monte-Carlo calculations”, E. Valamontes and A. G. Nassiopoulos, European Conf. on Energy Dispersive X-ray Analysis, Myconos, May 1992
- A.160** “Comparative study of back-foil X-ray fluorescence and Electron Probe Microanalysis for the characterization of very thin overlayers”, A. G. Nassiopoulos, E. Valamontes, N. Grammaticas, D. Philipou and D. Frangogiannis, Eur. Conf. on Energ. Dispers. X-ray Analysis, Myconos, May 1992
- A.161** “Wet silylation and dry development with the AZ5214TM photoresist”, E. Gogolides, C. Misiakos, A. G. Nassiopoulos, E. Tsoi and M. Hatzakis, Intern. Conf. on Microc. Engin. 92, Erlagen, Germany, 1992
- A.162** “Microelectronics Materials” A. G. Nassiopoulou (**invited talk**) Workshop on “Modern Trends in Research and Technology of Condensed Matter”, organized by the Hellenic Society of Condensed Matter, Athens, 1st June 1992, Published in the Proceedings p. 20 (1992)
- A.163** “Modern trends in Microelectronics», A. G. Nassiopoulou (**invited talk**), 7th Panhellenian Conference on Physics and 6th Joint Conference of the Greek and Cypriot Physics Societies, Nicosia, 1992
- A.164** "Total Enhancement Factor in X-ray Microanalysis of Thin Overlayers", A. G. Nassiopoulos (**Invited talk**), 24th. Cong. Elec. Micr., Israel, April 1990
- A.165** “Contribution of the X-ray Induced Auger electrons in quantitative Auger Electron Spectroscopy calculated by Monte Carlo techniques”, E. Valamontes, A. G. Nassiopoulos, Europ. Conf. on Appl. Surf. Interf. Anal, Antibes, France, 1989. Abstr. p.130
- A.166** “Auger Backscattering factors for stratified materials determined by X-ray emission”, O. Jbara, J. Cazaux, X. Thomas, A. G. Nassiopoulos, E. Valamontes, Europ. Conf. Appl. Surf. Interf. Anal, Antibes, France, 1989, Abstr. p. 266
- A.167** “MOSFET operation at very low temperature”, Hafez, F. Balestra, G. Ghibaud, G. Kamarinos, E. Rocofyllou, A. G. Nassiopoulos, D. Tsamakis, 9<sup>th</sup> Conference on the Condensed Matter Division, Nice, France, 1989
- A.168** “Caracterisation et Modelisation des MOSFETs a tres basse temperature’’, Hafez, G. Ghibaud, F. Balestra, G. Kamarinos, A. G. Nassiopoulos, E. Rocofyllou, D. Tsamakis, Congres de la Societe Francaise de Physique, Lyon, Sept. 1989
- A.169** “SEELS in the reflection mode, compared to EELS of fast electrons”, A. G. Nassiopoulos, J. Cazaux, X. Thomas, “ECOSS-7” (European Conference on Surface Science) Aix-en-Provence, April 1985
- A.170** “On the X-ray induced Auger electron effects”, J. Cazaux, D. Gramari, S. Moutou, A.G. Nassiopoulos, 10<sup>th</sup> International Congress on X-ray Optics and Microanalysis, Toulouse, France, Sept. 1983
- A.171** “X-ray Photoelectron Microprobe Analysis and related techniques”, Cazaux, D. Gramari, D. Mouze, A.G. Nassiopoulos, J.Perrin, 10<sup>th</sup> ICXOM, France, 1983

## B. Greek Conferences and Lectures

- B.1** "Nanoelectronics at the Center of Edge Technologies", A. G. Nassiopoulou (**invited talk**), Workshop on Nanotechnology, organized by the Greek National Physics Society, 9 May 2009
- B.2** "Electronics and micromachining using porous silicon", A. G. Nassiopoulou (**invited talk**), 2nd International Summer School on "Nanosciences & Nanotechnologies" (SS-NN08), Thessaloniki, Greece, 12-18 July 2008
- B.3** "Nanoelectronics at the Center of high technologies", A. G. Nassiopoulou (**invited talk**), 8th Scientific Symposium on High Technologies in Physical Sciences, 3-5 October 2008, Aegion, Greece
- B.4** "Micro&Nanoelectronics: Present status and perspectives", A. G. Nassiopoulou, 14.4.2008, NCSR Demokritos, Athens, Greece
- B.5** "Από τη Μικρο- στη Νανοηλεκτρονική, Δυνατότητες και προοπτικές", A. G. Nassiopoulou, Summer School, NCSR Demokritos, July 2008
- B.6** "Current trends in Nanoelectronics and MEMS", A. G. Nassiopoulou, 8.7.2008, NCSR Demokritos, Athens, Greece
- B.7**  
"Successive layer charging of Si nanocrystals in a double layer nanocrystals structure within SiO<sub>2</sub>", M. Theodoropoulou, A. Salonidou and A. G. Nassiopoulou, 23rd Panhellenian Solid State and Materials Science Conference, held at NCSR Demokritos, Athens, 23 – 26 September 2007
- B.8** "Electrochemical growth of ordered Si nanostructures on a silicon substrate for photonic applications", F. Zacharatos, V. Giannetta and A. G. Nassiopoulou, 3rd Panhellenian Symposium on Porous Materials, Thessaloniki, 1-2 November 2007
- B.9** "Ordered nanostructures on Si through porous anodic alumina thin films for photonic applications", F. Zacharatos, V. Gianneta and A. G. Nassiopoulou, 23rd Panhellenian Solid State and Materials Science Conference, held at NCSR Demokritos, Athens, 23 – 26 September 2007
- B.10** "Growth of ordered SiO<sub>2</sub> nanodots on selected areas on Si through porous anodic alumina thin films", V. Gianneta and A. G. Nassiopoulou, 3rd Panhellenian Symposium on Porous Materials, Thessaloniki, 1-2 November 2007
- B.11** "Microelectronics beyond Moore" A. G. Nassiopoulou, Summer School NCSR Demokritos, 9-20 July 2007
- B.12** "Micromachined Sensors and MEMs", A. G. Nassiopoulou, Invited Seminar TEI of Chalkida, 7 December 2006
- B.13** "From Micro- to Nanoelectronics, Nanotechnology and MEMs", A. G. Nassiopoulou, Seminar Summer School held at NCSR "Demokritos" 10-21 June 2006
- B.14** "Semiconductor quantum wires and dots: New properties, new applications", A. G. Nassiopoulou, Seminar Summer School held at NCSR "Demokritos" 10-21 June 2006
- B.15** "Arrays of SiO<sub>2</sub> nanodots on Si through porous anodic alumina masking layers", V. Gianneta, M. Kokonou and A. G. Nassiopoulou, 22nd Panhellenian Solid State and Materials Science Conference, held at Patras, 24 – 27 September 2006
- B.16** "Porous alumina on silicon as template for Growing Au nanodots arrays", V. Gianneta and A. G. Nassiopoulou, 22nd Panhellenian Solid State and Materials Science Conference, held at Patras, 24 – 27 September 2006

- B.17** “Fabrication of ordered SiO<sub>2</sub> dots on Si substrate through a porous alumina thin film”, V. V. Gianneta, M. Kokonou and A. G. Nassiopoulou, XVIII Greek Conference on Solid State Physics and Materials Science, Patra, September 2006
- B.18** “Macroporous silicon with regular arrays of vertical pores on p-type wafers”, D. N. Pagonis, J. Semai and A. G. Nassiopoulou, XXI Panhellenian Conference on Solid State physics and Materials Science, Nicosia, Cyprus 28-31 August 2005
- B.19** “Self assembly of colloidal gold nanoparticles in-between micrometer electrode gaps by dielectrophoresis”, A. Zoy, A. G. Nassiopoulou, M. Murugesan and B. D. Moore, XXI Panhellenian Conference on Solid State physics and Materials Science, Nicosia, Cyprus 28-31 August 2005
- B.20** “From Micro to Nanoelectronics and Nanosystems: Research and Applications” A. G. Nassiopoulou (**invited lecture**), Chemical Process Engineering Research Institute (CPERI), Center for Research and Technology Hellas (CERTH), Thessaloniki, 21-4-2004
- B.21** “Silicon nanocrystals embedded in thin SiO<sub>2</sub> layers by the LPCVD technique for memory applications” E Tsoi, A Salonidou, A G Nassiopoulou, V. Ioannou-Sougleridis, P Normand, K. Giannakopoulos and A. Travlos, XX Panhellenian Conference on Solid State Physics and Materials Science, Ioannina, 26-29 September, 2004
- B.22** “Silicon nanocrystals in SiO<sub>2</sub> for memory devices”, A.G. Nassiopoulou, V. Ioannou-Sougleridis, A. Travlos (**invited paper**) NATO ARW, “Frontiers in molecular-scale science and technology of nanocarbon, nanosilicon and biopolymer integrated nanosystems” Ilmenau, Germany (July 12-16 2003)
- B.23** «Κύκλωμα Σταθεροποίησης της Ισχύος στην Θερμαινόμενη Αντίσταση Μικρομηχανικού Αισθητήρα Ροής Αέριων», Α. Νασιόπουλος, Γ. Καλτσάς, Α. Γ. Νασιόπουλος, 9ο Πανελλήνιο Συνέδριο Φυσικής, Χίος, 1-4 Νοεμβρίου, 2001
- B.24** “Porous Silicon for chemical sensors”, NATO ARW Summer School, Frontiers in “Molecular-scale Science and Technology of nanocarbon, nanosilicon and biopolymer integrated nanosystems”, C. Tsamis and A. G. Nassiopoulou, Ilmenau, Germany, Published in the Proceedings
- B.25** “Hydrogen catalytic reaction on Pd doped Porous Silicon”, C. Tsamis, L. Tsoura, A. Travlos, A. G. Nassiopoulou, C. E. Salmas, K. S. Hatzilyberis and G. P. Androutopoulos, International Workshop on Materials and Technologies for Chemical Sensors, MATCHEMS, Brescia, Italy, 13-14 September 2001
- B.26** “Silicon nanostructures in Si/SiO<sub>2</sub> superlattices for light emission applications: possibilities and limits”, A. G. Nassiopoulou, T. Ouisse and P. Photopoulos (**invited talk**), NATO Advanced Research Workshop on “Frontiers of nano-optoelectronic systems: molecular-scale engineering and processes”, Kiev, Ukraine, May 22-26, 2000
- B.27** “Electroluminescence from Si in nc-Si/CaF<sub>2</sub> and Si/SiO<sub>2</sub> superlattices”, A. G. Nassiopoulou, V. Ioannou-Sougleridis, D. Kouvatsos, P. Photopoulos and V. Tsakiri, European MEL-ARI WORKSHOP, Edinburgh, 5-7 April 2000
- B.28** “Mechanisms of carrier transport and electroluminescence in Si/CaF<sub>2</sub> quantum wells” V. Ioannou - Souglerides, V. Tsakiri, A. G. Nassiopoulou, S. Menard. M. Liniger, F. Bassani, F. Arnaud d’ Avitaya, 3rd Annual Workshop Melari opto, Athens, Greece, October 13-15, 1999

- B.29** “Nanocrystalline silicon light emitting diodes”, P. Photopoulos, D. Kouvatsos, A. Travlos and A. G. Nassiopoulou, XI Greek National Conference on Solid State Physics, Patras 27-29 September 1999
- B.30** “Dielectric and Optical Properties of nc-Si/CaF<sub>2</sub> multiquantum wells”, V. Tsakiri, V. Ioannou-Sougleridis, P. Photopoulos, A. G. Nassiopoulou, F. Bassani and F. Arnaud d’Avitaya, XI Greek National Conference on Solid State Physics, Patras 27-29 September 1999
- B.31** «Φωτοдиодοι από πολυστρωματικά υμένια (Si/CaF<sub>2</sub>) σε υπόστρωμα πυριτίου: Ηλεκτρικός και οπτικός χαρακτηρισμός», Β. Τσακίρη, Β. Ιωάννου-Σουγλερίδης, Α. Νασιοπούλου, F. Bassani, F. Arnaud d’ Avitaya, XIV Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης Ιωάννινα, 15-18 Σεπτεμβρίου 1998 (βραβείο καλύτερης προφορικής εργασίας από μεταπτυχιακό σπουδαστή Β. Τσακίρη)
- B.32** «Φωτοφωταύγεια στο ορατό και εγγύς υπέρυθρο σε θερμοκρασία περιβάλλοντος από νανοκρυσταλλικό πυρίτιο επάνω σε λεπτά στρώματα SiO<sub>2</sub>» Π. Φωτόπουλος, Β. Ιωάννου-Σουγλερίδης, Α. Νασιοπούλου, XIV Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης Ιωάννινα, 15-18 Σεπτεμβρίου 1998
- B.33** «Μικροηλεκτρονική πυριτίου: η τεχνολογία και οι σημαντικότερες ερευνητικές κατευθύνσεις στην εποχή μας», Α. Νασιοπούλου, ειδική διάλεξη-μάθημα, 12 Δεκεμβρίου 1998, Πανεπιστήμιο Κρήτης
- B.34** «Ο ρόλος των ερευνητικών κέντρων στην μεταπτυχιακή εκπαίδευση και την ανάπτυξη ανθρώπινου δυναμικού», Α. Νασιοπούλου, Ημερίδα Ελληνικής Εταιρείας Επιστήμης και Τεχνολογίας Συμπυκνωμένης Ύλης, 8 Μαΐου 1998, ΕΚΕΦΕ «ΔΗΜΟΚΡΙΤΟΣ»
- B.35** «Γιγαντιαία μαγνητοαντίσταση σε πολυστρωματικά υμένια Agm-Con», Μ. Αγγελακέρης, Π. Πουλόπουλος, Ο. Βαλασιάδης, Ν. Κ. Φλεβάρης, Δ. Νιάρχος, Α. Νασιοπούλου XII Πανελλήνιο Συνεδρίου Φυσικής Στερεάς Κατάστασης, Ιωάννινα, 15-18 Σεπτεμβρίου 1998
- B.36** “Visible and near infrared electroluminescence from nanocrystalline silicon”, A. G. Nassiopoulou, P. Photopoulos and V. Ioannou-Sougleridis, MEL-ARI OPTO 2nd annual workshop, 14-16 October 1998, Tel-Aviv
- B.37** "Nanocrystalline silicon for applications in optoelectronics», A. G. Nassiopoulou (**invited talk**), Physics Department, University of Thessaloniki, 18th February 1998
- B.38** «Κβαντικά νήματα και νανοκρυσταλλίτες πυριτίου: Νέα προοπτική για ολοκλήρωση οπτοηλεκτρονικών στο πυρίτιο», Ημερίδα με θέμα : Υλικά νανοδιαστάσεων για τεχνολογίες του 2000, ΕΚΕΦΕ «ΔΗΜΟΚΡΙΤΟΣ» 4 Ιουλίου 1997
- B.39** «Μελέτη Raman και φωταύγειας κβαντικών νημάτων πυριτίου», Δ. Παπαδημητρίου και Α. Νασιοπούλου, XIV Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Θεσσαλονίκη, 1997
- B.40** “Growth of erbium silicide films on (100) silicon as characterized by electron microscopy and diffraction”, N. Frangis, J. Van Larduyt, G. Kaltsas, A. Travlos and A. G. Nassiopoulou, Proceed. 5th Congress of the Greek Society of Electron Microscopy, Xanthi, Greece 9-11 May 1997, p.33 (1997)
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