Doundoulakis Georgios_publications

PUBLICATIONS IN JOURNALS

1. ***Selective-area growth of GaN nanowires on SiO2-masked Si (111) substrates by molecular beam epitaxy***
   J. E. Kruse, L. Lymperakis, S. Eftychis, A. Adikimenakis, G. Doundoulakis, K. Tsagaraki, M. Androulidaki, A. Olziersky, P. Dimitrakis, V. Ioannou-Sougleridis, P. Normand, T. Koukoula, Th. Kehagias, Ph. Komninou, G. Konstantinidis, and A. Georgakilas
   JOURNAL OF APPLIED PHYSICS 119, 224305 (2016)
2. ***Multimodal microscopy test standard for scanning microwave, electron, force and optical microscopy***
   Olaf C. Haenssler, M. F. Wieghaus, A. Kostopoulos, G. Doundoulakis, E. Aperathitis, S. Fatikow, G. Kiriakidis
   JOURNAL OF MICRO-BIO ROBOTICS 14, 51 (2018)

PUBLICATIONS IN PROCEEDINGS OF INTERNATIONAL CONFERENCES

1. ***Spontaneous growth of III-V semiconductor nanopillars by molecular beam epitaxy for nanoelectronic, photonic and sensor applications (invited)***
   A. Georgakilas, A. Adikimenakis, S. Eftychis, J. Kruse, K. Tsagaraki, M. Androulidaki, E. Iliopoulos, Z. Hatzopoulos, P. Tzanetakis, Ph. Komninou, T. Koukoula, Th. Kehagias, G. P. Dimitrakopulos, J. Kioseoglou, A. Lotsari, Th. Karakostas, G. Konstantinidis, G. Doundoulakis, K. Zekentes, P. Dimitrakis, V. Ioannou-Sougleridis, A. Olziersky, P. Normand
   4th IC4N-2013, Workshop on Nanowires and Nanostructures: Fabrication, Characterization, Applications, Corfu, Greece, 16-20 June, 2013

2. ***A study on the fabrication of devices and the characterization of GaN nanowires and the GaN/Si heterojunction***
   G. Doundoulakis, A. Bairamis, E. Tsikritsaki, A. Stavrinidis, Ch. Zervos, G. Konstantinidis, M. Kayampaki, S. Eftychis, J. Kruse, A. Adikimenakis and A. Georgakilas
   38th WOCSDISE proceedings, Workshop on Compound Semiconductor Devices and Integrated Circuits, 15-18 June 2014, Delphi, Greece, pp. 129-130 (book of extended abstracts)

3. ***Nanopatterning of Si (111) substrates for selective growth of III-nitride nanowires by plasma-assisted molecular beam epitaxy***
   P. Dimitrakis, A. Olziersky, V. Ioannou-Sougleridis, P. Normand, J. E. Kruse, S. Eftychis, G. Doundoulakis, K. Tsagaraki, M. Androulidaki, G. Konstantinidis, A. Georgakilas **38th WOCSDISE** proceedings, Workshop on Compound Semiconductor Devices and

Integrated Circuits, 15-18 June 2014, Delphi, Greece, pp. 131-132 (book of extended abstracts)

4. ***Importance of substrate temperature in one-step or two-step process of spontaneous GaN nanowire growth by plasma-assisted molecular beam epitaxy***
   S. Eftychis, J. Kruse, L. Lymperakis, K. Tsagaraki, G. Doundoulakis, M. Androulidaki, T. Koukoula, Th. Kehagias, Ph. Komninou and A. Georgakilas
   38th WOCSDISE proceedings, Workshop on Compound Semiconductor Devices and Integrated Circuits, 15-18 June 2014, Delphi, Greece, pp. 173-174 (book of extended abstracts)

5. **I*mportance of substrate temperature in one-step or two-step process of spontaneous GaN nanowire growth by plasma-assisted molecular beam epitaxy***
   S. Eftychis, J. Kruse, L. Lymperakis, K. Tsagaraki, G. Doundoulakis, M. Androulidaki, T. Koukoula, Th. Kehagias, Ph. Komninou and A. Georgakilas
   38th WOCSDISE, Workshop on Compound Semiconductor Devices and Integrated Circuits, 15-18 June 2014, Delphi, Greece

6. **Selective Growth of GaN Nanopillars on patterned Si (111) substrates**
   J.E. Kruse, S. Eftychis, G. Doundoulakis, K. Tsagaraki, M. Androulidaki, A. Olziersky, P. Normand and A. Georgakilas
   IWN 2014, International Workshop on Nitride Semiconductors, 24-29 August 2014, Wroclaw, Polland

7. ***The effect of substrate temperature on the nucleation and the growth of GaN nanopillars on Si (111) substrates***
   S. Eftychis, J. Kruse, K. Tsagaraki, M. Androulidaki, A. Adikimenakis, G. Doundoulakis and A. Georgakilas
   IWN 2014, International Workshop on Nitride Semiconductors, 24-29 August 2014, Wroclaw, Polland

8. ***Electrical characterization of individual GaN Nanopillars synthesized by Plasma assisted Molecular Beam Epitaxy***
   G. Doundoulakis, A.Stavrinidis, S. Eftychis, J. Kruse, M. Androulidaki, K. Tsagaraki, M. Kayambaki, G. Konstantinidis, P. Normand, K.Zekentes and A. Georgakilas
   ICNS-11, International Conference on Nitride Semiconductors, 30 August - 4 September 2015, Pekino, China

9. **Test standard for Light, Electron and Microwave Microscopy to enable robotic processes**
   O. C. Haenssler, A. Kostopoulos, G. Doundoulakis, E.Aperathitis, S.Fatikow, G.Kiriakidis
   MARSS 2017, International Conference on Manipulation, Automation and Robotics at Small Scales, 2017, Montreal, Canada

10. **Evaluation and understanding of size effects on the conductivity of spontaneously grown GaN nanowires**
    G. Doundoulakis , A. Stavrinidis, S. Eftychis, M. Androulidaki, K. Tsagaraki, M. Kayambaki, G. Konstantinidis and A. Georgakilas
    EUROMAT 2017, European Congress and Exhibition on Advanced Materials and Processes, Thessaloniki, 17-22 Sept. 2017, Greece