

Short CV – Dr. Spyros Kassavetis

Personal Information	
Name and Surname:	Spyridon (Spyros) Kassavetis
Father / Mother Name:	Nikolaos / Ekaterini
Place & Date of Birth:	Athens, Greece 30 April 1975
Work Address:	Physics Dept., Sch. of Sciences Bld., Aristotle University Univ.,
Contact Details:	Tel: +30 6936 685104 (Mob), 23100998076 (Office)
e-mail:	skasa@physics.auth.gr , skass@auth.gr
Position	
-	Special Teaching Fellow, Physics Department, Solid State Physics Section
-	Head of MicroFabrication Group, Nanotechnology Lab LTFN
Studies	
-	PhD in Physics , July 2006, Physics Dept., Aristotle University of Thessaloniki (AUTH) Thesis Title: «Nanostructural Materials Processes and Nanomechanical Properties»
-	MSc in Physics & Technology of Materials , October 2002, Physics Dept., AUTH Thesis Title: “Nanomechanical properties of Thin Films – The substrate effect”
-	BSc in Physics , November 2000, Physics Department, AUTH
-	Languages: Greek (Native Speaker), English, French
Scientific expertise	
-	May 2015 – Today: Head of NanoFabrication Group, Nanotechnology Lab LTFN
-	Sep 2013 – May 2015: Research Fellow, Univ. of Ioannina, Dept. of Materials Science & Engineering,
-	May 2012 – Sep. 2013: Research Fellow, NCSR “Demokritos”, Athens, Greece
-	Jan. 2012 – Apr. 2012: Post-Doc Researcher, Helmholtz Zentrum Berlin, Berlin, Germany,
-	May 2007 – Dec. 2011: Post-Doc Researcher in the Nanotechnology Lab LTFN
Research Activities & Professional Career	
-	Nanophotonics & Plasmonic Nanomaterials & Applications
-	Thin Films Science & Technology
-	Surface Science, Nanomechanical & Optical Properties / Characterization Techniques
Coordination of Research Projects	
1.	«Structural and Nanomechanical Properties of Materials», AUTH, PI Dr. S. Kassavetis, Funded by BIC Violen ABEE
Participation to Research Projects under Contracts	
1.	SmartLine: “ Smart In-line metrology and control for boosting the yield and quality of high-volume manufacturing of Organic electronics ”, Coordinator Prof. S. Logothetidis, H2020-FOF-08-2017, Innovation action, GA no: 768707
2.	Nano-Hybrid: “ Multifunctional nanocoatings with nanohybrid organic-inorganic interfaces ”, Coordinator P. Patsalas, NSRF 2007 – 2013, «Synergasia 2011», GSRT, Greece
3.	SMARTONICS: “ Development of smart machines, tools and processes for the precision synthesis of nanomaterials with tailored properties for Organic Electronics ”, Coordinator Prof. S. Logothetidis, FP7, NMP.2012.1.4-1
4.	ERC, IDEAS «SMARTGATE» – “ Smart Gates for the ‘Green’ Transistor ”, Principal Investigator, Dr. A. Dimoulas. European Research Council, IDEAS – Adv. Investigator Grant 2011 - PE7 Systems and Communication Engineering
5.	« SoHyb - Selbstorganisation in organischen Hybridsolarzellen », Institute Heterogeneous Materials Systems, Helmholtz Zentrum Berlin, Berlin, PI Dr. K. Fostiropoulos, Funded by German Federal Ministry of Science and Education
6.	National Delegate in the Management Committee of the following COST Actions:
1.	MP0804 “ Highly Ionised Pulse Plasma Processes ” (2008 -2012)
2.	MP1303 “ Understanding and Controlling Nano and Mesoscale Friction ”, (2013-2017)
3.	MP1402, “ Hooking together European research in atomic layer deposition (HERALD) ”, (2014-2018)
4.	CA15119, “ Overcoming Barriers to Nanofluids Market Uptake (NANOUPTAKE) ”, (2015 – 2020)
5.	CA15202, « Self-healing As preventive Repair of Concrete Structures (SARCOS) ” (2016-2020)

6. CA17123, "[Ultrafast opto-magneto-electronics for non-dissipative information technology](#)" (2018 – 2022)

Substitute National Delegate in the Management Committee of the following COST Actions:

1. MP1307, «[Stable Next-Generation Photovoltaics:\(StableNextSol\)](#)» (2013-2017)

2. MP1308 [Towards Oxide-Based Electronics \(TO-BE\)](#) (2013-2017)

3. MP1406, «[Multiscale in modelling and validation for solar photovoltaics \(MultiscaleSolar\)](#)» (2014-2018)

4. IC 14001, «[Memristors - Devices, Models, Circuits, Systems and Applications \(MemoCIS\)](#)» (2014-2018)

5. CA17107, "[European Network to connect research and innovation efforts on advanced Smart Textiles](#)" (2018 -2022)

7. «**NANORGANIC**» - "[Development of Nanostructured Organic & Inorganic Materials and Thin Films for the Production of Organic Electronic Devices](#)", AUTH, Coordinator Prof. S. Logothetidis, GSRT, «Synergasia 2009», Greece

8. «**LiLa**» - "[Dissemination of Remote & Virtual Laboratories for Natural Sciences & Engineering](#)", AUTH, Coordinator Prof. S. Logothetidis, Funded by EC, FP7 e-Content Plus

9. "**NANOIDENT**" - "[Creating and disseminating novel nanomechanical characterisation techniques and standard](#)" AUTH, Coordinator Prof. S. Logothetidis, FP7 Coordination and support actions (Coordinating actions)

10. "**ΠΥΘΑΓΟΡΑΣ II**" "**Growth of carbon and boron nitride nanostructures and nanotubes and biocompatibility studies**", AUTH, Coordinator Prof. S. Logothetidis

11. "**FLEXONICS**" «[Ultra-high barrier films for r2r encapsulation of flexible electronics](#) », AUTH, Coordinator Prof. S. Logothetidis, Funded by EC, FP6 NMP STREP (2005 – 2008)

12. «**Nanostructures - Interfaces - Adhesion of organic/inorganic materials: Applications in Blades-Optics-Photovoltaic-Packaging-Displays-Biomaterials, 01EΔ256**», AUTH, Coordinator Prof. S. Logothetidis, GSRT, PENED-2001

Five most important publications

- h-index	18
- Numbers of Citations:	11135
- Publications in International peer-review Journals:	45
- Book Chapters:	01
- Publications in International Conf. Proceedings (peer-review):	05

1. "Formation of plasmonic colloidal silver for flexible and printed electronics using laser ablation", **Kassavetis, S.**, Kaziannis, S., Pliatsikas, N., Avgeropoulos, A., Karantzalis, A.E., Kosmidis, C., Lidorikis, E., Patsalas, P., Applied Surface Science 336 (2015) 262-266.

2. "Plasmonic spectral tunability of conductive ternary nitrides", **Kassavetis, S.**, Bellas, D., Abadias, G., Lidorikis, E., and Patsalas, P., Applied Physics Letters 108 (2016) 263110

3. "Evidence for graphite-like hexagonal AlN nanosheets epitaxially grown on single crystal Ag(111)" P. Tsipas, **S. Kassavetis**, D. Tsoutsou, E. Xenogiannopoulou, E. Goliias, S. A. Giamini, C. Grazianetti, D. Chiappe, A. Molle, M. Fanciulli and A. Dimoulas, Applied Physics Letters, 103 (2013) 251605

4. "Conductive nitrides: Growth principles, optical and electronic properties, and their perspectives in photonics and plasmonics" (Review), Patsalas, P., Kalfagiannis, N., **Kassavetis, S.**, Abadias, G., Bellas, D.V., Lekka, C., Lidorikis, E., Materials Science and Engineering R: Reports 123, (2018), 1-55

5. "Near-Zero Negative Real Permittivity in Far Ultraviolet: Extending Plasmonics and Photonics with B1-MoNx", **Kassavetis, S.**, Ozsdolay, B.D., Kalfagiannis, N., Habib, A., Tortai, J.-H., Kerdsonpanya, S., Sundararaman, R., Stchakovsky, M., Bellas, D.V., Gall, D., Patsalas, P., The Journal of Physical Chemistry C 123 (2019), 21120-211295. "Near-Zero Negative Real Permittivity in Far Ultraviolet: Extending Plasmonics and Photonics with B1-MoNx"