

# Публикации в пълен текст

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## Публикации, включени в докторската дисертация:

- (1) Terziyska P., Blanc C., Pernot J., Contreras S., Robert J-L., Camassel J., Morvan E., Dua C., and Brylinski C., „Evaluation de structures MESFET sur la base de mesures d'Effet Hall en température“, Rencontre Franco-Espagnole sur la Chimie et la Physique de l'Etat Solide, Sant Feliu de Guixols, 20-23 Mars 2002.
- (2) Terziyska, P., C. Blanc, J. Pernot, H. Peyre, S. Contreras, G. Bastide, J. Robert, J. Camassel, E. Morvan, C. Dua and C. Brylinski, "Evaluation of MESFET structures from temperature-dependent Hall effect measurements." *physica status solidi (a)* 195(1): 243-247 (2003).
- (3) Terziyska, P., J. Pernot, S. Contreras, J.-L. Robert, L. Di Cioccio and T. Billon (2003). Transport investigation of low-nitrogen-doped 6H-SiC ion-implantation vs. in situ doping. *Materials Science Forum*, Vols. 433-436, pp. 399-402, (2003).

## Публикации, които не са включени в докторската дисертация:

- (1) Миланова М., Каканаков Р., Терзийска П., „Високоефективни слънчеви елементи за концентрирано слънчево излъчване на основата на  $A^3B^5$  хетероструктури“, Трета национална конференция по възобновяеми енергийни източници, 23-24 Октомври 2003, София, България. Стр. 100-105.
- (2) Blanqué, S., J. Lyonnet, R. Pérez, P. Terziyska, S. Contreras, P. Godignon, N. Mestres, J. Pascual and J. Camassel, "Full wafer size investigation of N+ and P+ co-implanted layers in 4H-SiC." *physica status solidi (a)* 202(4): 698-704 (2005).
- (3) Blanque, S., J. Lyonnet, J. Camassel, R. Perez, P. Terziyska, S. Contreras, P. Godignon, N. Mestres and J. Pascual, "Homogeneity of Nitrogen and Phosphorus Co-Implants in 4H-SiC: Full Wafer Scale Investigation." *Materials Science Forum* 483-485: 645-648 (2005).
- (4) Milanova, M. and P. Terziyska, "Low-temperature liquid-phase epitaxy growth from Ga-As-Bi solution." *Thin solid films* 500(1): 15-18 (2006).
- (5) Butcher, K. S. A., D. Alexandrov, P. Terziyska, V. Georgiev, D. Georgieva and P. W. Binsted, "InN grown by migration enhanced afterglow (MEAglow)." *physica status solidi (a)* 209(1): 41-44 (2012).

- (6) Butcher, K. S. A., D. Alexandrov, P. Terziyska, V. Georgiev and D. Georgieva, "Initial experiments in the migration enhanced afterglow growth of gallium and indium nitride." *physica status solidi (c)* 9(3-4): 1070-1073 (2012).
- (7) Binsted, P. W., K. S. A. Butcher, D. Alexandrov, P. Terziyska, D. Georgieva, R. Gergova and V. Georgiev, "InN on GaN Heterostructure Growth by Migration Enhanced Epitaxial Afterglow (MEAglow)." *MRS Proceedings* 1396: mrsf11-1396-01307-1341 (2012).
- (8) Terziyska, P. T., K. S. A. Butcher and D. Alexandrov, "Investigation of the presence of metal droplets after pulsed InN and GaN epitaxial growth using atomic force microscopy and nanoindentation." *Applied Surface Science* 258(24): 9997-10001 (2012).
- (9) Butcher, K. S. A., B. W. Kemp, I. B. Hristov, P. Terziyska, P. W. Binsted and D. Alexandrov, "Gallium Nitride Film Growth Using a Plasma Based Migration Enhanced Afterglow Chemical Vapor Deposition System." *Japanese Journal of Applied Physics* 51(1S): 01AF02 (2012).
- (10) Milanova, M., P. Vitanov, P. Terziyska, G. Popov and G. Koleva, "Structural and electrical characteristics of InGaAsN layers grown by LPE." *Journal of Crystal Growth* 346(1): 79-82 (2012).
- (11) Terziyska, P. T., K. S. A. Butcher, D. Gogova, D. Alexandrov, P. Binsted and G. Wu "InN nanopillars grown from In-rich conditions by migration enhanced afterglow technique." *Materials Letters* 106: 155-157, (2013).
- (12) Milanova, M., P. Vitanov, P. Terziyska, G. Koleva and G. Popov, "Nitrogen incorporation into GaAsN and InGaAsN layers grown by liquid-phase epitaxy." *Physica Status Solidi (c)* 10(4): 597-600 (2013).
- (13) Lai, Y., S. Yu, P. Rafailov, E. Vlaikova, S. Valkov, S. Petrov, J. Koprinarova, P. Terziyska, V. Marinova and S. Lin, "Chemical vapour deposition growth of graphene layers on metal substrates." *Journal of Physics: Conference Series* 558(1): 012059 (2014).
- (14) Terziyska, P. T., K. S. A. Butcher, P. Rafailov and D. Alexandrov "Growth of vertically oriented InN nanorods from In-rich conditions on unintentionally patterned sapphire substrates." *Applied Surface Science* 353: 103-105 (2015).
- (15) M. Milanova, P. Vitanov, P. Terziyska, G. Koleva, C. Barthou, B. Clerjaud, „Study of LPE grown dilute nitride GaInAsN layers with small concentration of Nitrogen by PL and Hall effect measurements“, *Bulgarian Chemical Communications*, Volume 47, Special Issue B (pp. 71-75) (2015).
- (16) Tonya D. Andreeva, A. K. Danailova, P. Terziyska, S. B. Krumova, S. G. Taneva, R. Krastev, The Hofmeister anion effect on morphology of polyelectrolyte multilayers for biofunctionalization of cardiovascular stents. *Bulgarian Chemical Communications*, Volume 48, Special Issue A (pp. 23 - 28) (2016).
- (17) Terziyska, P. T., K. S. A. Butcher, "Self-Catalytic Growth of InN Nanowires". *Bulgarian Journal of Physics* 43, 54-63 (2016).

- (18) B.S. Blagoev, D.Z. Dimitrov, V.B. Mehandzhiev, J. I. Pavlic, D. Kovacheva, P. Terziyska, K. Lovchinov, E. Mateev, Electron transport in lightly Al doped ZnO nanolayers obtained by atomic layer deposition, Journal of Physics: Conference Series 700, 012040 (2016).
- (19) B. S. Blagoev, E. Vlakhov, V. Videkov, B. Tzaneva, G. Łuka, B. S. Witkowski, P. Terziyska, J. Leclercq, T. A. Krajewski, E. Guziewicz, D. Z. Dimitrov, V. B. Mehandzhiev and P. Sveshtarov, Atomic Layer Deposition of ZnO:Al on PAA substrates, Journal of Physics: Conference Series (accepted for publication)
- (20) K. Gesheva, M. A. Arvizu, G. Bodurov, T. Ivanova, G. A. Niklasson, M. Iliev, T. Vlakhov, P. Terziyska, G Popkirovi, M Abrashev, S Boyadjiev, G Jägerszki, I M Szilágyi and Y Marinov, Optical, structural and electrochromic properties of sputter deposited W-Mo oxide thin films, Journal of Physics: Conference Series (accepted for publication).
- (21) I. Balchev, Kr. Tzvetkova, S. Kolev, P. Terziyska, A. Szekeres, I. Miloushev, T. Tenev, K. Antonova, R. Peyeva, T. Ivanova, I. Avramova, M. Tzvetkov, G. Avdreev, E. Valcheva, T. Milenov and S. Tinchev, Synthesis and characterization of thin amorphous carbon films doped with nitrogen on (001) Si substrates, Journal of Physics: Conference Series (accepted for publication).
- (22) A. Paskaleva, D. Spassov, P. Terziyska, Electric, dielectric and optical properties of Ga<sub>2</sub>O<sub>3</sub> grown by metal organic chemical vapour deposition, Journal of Physics: Conference Series (accepted for publication).

## Докторска дисертация:

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- (1) Terziyska, Penka. Propriétés de transport de  $\alpha$ -SiC: application aux composants électroniques, Université des Sciences et Techniques du Languedoc Montpellier 2, (2003).
- (2) Терзийска Пенка. Електронни транспортни свойства на  $\alpha$ -SiC: Приложение в полупроводниковите прибори, Автореферат, (2003).