

# ICFSI Program

## Posters Session II

Chair: Virgilio Anjos

- P-TU-01** V. G. A. Carneiro, J. C. da Costa and J. G. Guimarães  
Considerations about interconnection limits on basic subcircuits with single-electron tunneling devices
- P-TU-02** F. A. R. Silva, L. M. Silva, A. M. Ceschin, M. J. A. Sales, S. G. C. Moreira.  
KDP/PEDOT: PSS mixture as a new alternative in the fabrication of pressure sensing devices.
- P-TU-03** J. L. J. Pérez, R. G. Fuentes, E. M. Alvarado, E. R. Gallegos, A. C. Orea and J. T. Cordova.  
Enhanced of the thermal transport in a culture medium with Au nanoparticles.
- P-TU-04** J. L. J. Pérez, R. G. Fuentes, J. A. P. Rojas, J.F. S. Ramírez and A. C. Oreab.  
Study of the thermal diffusivity of nanofluids with bimetallic nanoparticles with Au(core)/Ag(shell) structure.
- P-TU-05** J. L. J. Pérez, A. C. Orea, F. S. Ramírez, E. R. Gallegos and J. G. M. Alvarez.  
Monitoring the of non-radiative relaxation time of PpIX solutions with Au nanoparticles by using photoacoustic spectroscopy.

- P-TU-06** M. Vondráček, M. Švec, V. Dudr, V. Matolín, K. C. Prince and V. Cháb.  
Co-deposition of Pb and Sn on the Si(111)-7x7 surface: chemical states in the ( $\sqrt{3}\times\sqrt{3}$ )R30° structure
- P-TU-07** K. Sato, M. Hiruoka and K. Hirakuri.  
Stable luminescence in pure water from carbon passivated nanocrystalline silicon particles.
- P-TU-08** M. Wegscheider, C. Simbrunner, A. Navarro-Quezada, M. Quast, T. Li, H. Sitter and A. Bonanni.  
Alternate Mg distribution in GaN:d Mg and its effect on structural, optical and electrical characterization.
- P-TU-09** F. A. Ferri, A. R. Zanatta and I. Chambouleyron.  
Induced crystallization in amorphous silicon thin films: Influence of the substrate and the Ni concentration
- P-TU-10** H. Schäfer, L. Schöler, K. Seibel and M. Böhm.  
A monolithically integrated CMOS based labchip using sensor and actuator devices.
- P-TU-11** I. G. Deac, R. Tetean and E. Burzo.  
Ferromagnetic semiconductor behavior in transition metal oxides (La,Pr)<sub>2/3</sub>A<sub>1/3</sub>TM<sub>2</sub>O<sub>3</sub>, A = Ca, Sr and TM = Mn, Co.
- P-TU-12** H. V. A. Galeti, Y. G. Gobato, M. J. S. P. Brasil, V. Lopes-Richard, H. B. de Carvalho, G. E. Marques, M. Henini and G. Hill.  
Time-resolved photoluminescence studies in p-type double barrier diodes.

- P-TU-13** L. F. dos Santos, Y. Galvão Gobato, M. J. S. P. Brasil, G. E. Marques, M. Henini and G. Hill.  
Circular polarization in asymmetric n-type resonant tunneling diodes.
- P-TU-14** D. H. Rodrigues, D. P. A. Holgado, Y. Galvão Gobato, M. J. S. P. Brasil, G. E. Marques, M. Henini and M. Cukr.  
Optical studies in GaMnAs quantum wells.
- P-TU-15** J. S. de Sousa and G. A. Farias  
On the efficiency of current generation in nanocrystal solar cells.
- P-TU-16** E. L. de Oliveira, J. S. de Sousa, F. F. Maia Jr. and E. L. Albuquerque.  
Optical properties of Si<sub>1-x</sub>Gex nanocrystals.
- P-TU-17** J. Sinkkonen, S. Novikov, and A. Varpula.  
Characterization of surface states by SPV-transient.
- P-TU-18** O. V. Molodtsova, V. Yu. Aristov, Y. A. Ossipyan, B. P. Doyle, S. Nannarone and M. Knupfer.  
Cobalt(Iron) contacts on an organic molecular semiconductor: chemistry and electronic properties
- P-TU-19** J. A. P. Ramos, E. Granato, C. V. Achim, S. C. Ying, K. R. Elder and T. Ala-Nissila.  
Ordered structures and phase transitions in a phase field crystal model for strained adsorbed layers
- P-TU-20** C. T. M. Ribeiro and A. R. Zanatta.  
Spectroscopic investigations on thermally synthesized ruby microstructures.

- P-TU-21** F. F. Maia Jr., J. S. de Sousa, M. Z. S. Flores and V. N. Freire  
Structural and electronic properties of glycine and alanine on 2x1-Si(100) surfaces.
- P-TU-22** Z. J. Horváth, A. E. Pap, K. T. Eppich, P. Basa, L. Dobos B. Pécz, and L. Tóth.  
Electrical behaviour of MIS structures with ultrathin chemical oxide.
- P-TU-23** Z. J. Horváth and V. Rakovics  
Electrical behaviour of nanocrystalline CdS/InP heterojunction p-n diodes.
- P-TU-24** M. N. d' Eurydice, G. M. Sipahi, S. C. P. Rodrigues, E. F. da Silva Jr.  
Optical properties of ternary and quaternary nitrides alloys.
- P-TU-25** M. A. D. Carvalho, D. R. Miquita, M. I. N. da Silva, M. V. B. Moreira, A. G. de Oliveira, and J. C. González.  
X-ray diffraction and atomic force microscopy studies of Iron silicides nanostructures grown by Reactive Deposition Epitaxy on Si(111).
- P-TU-26** J. C. Brant, D. C. Elias, B. S. Archanjo, G. N. Fontes, R. M. Paniago, F. Plentz and E. S. Alves.  
STM and AFM characterization of single-and double-layers of graphene.
- P-TU-27** A. Chaves, J. A. K. Freire and G. A. Farias.  
Confinement in Double Quantum Dots.
- P-TU-28** A. A. de Andrade, V. Anjos and M. J. V. Bell.  
Thermal Lens Technique in Amorphous SiN.

- P-TU-29** **P. Rodríguez** and G. González de la Cruz.  
Influence of Starch as capping agent on the optical properties of CdS nanoparticles.
- P-TU-30** **W. M. de Azevedo**, M. C. C. Areias, I. L. de Mattos and M. Navarro.  
Preparation and characterization of silver hexacyanoferrate/conducting polymer nano composite.
- P-TU-31** **J. R. Cárdenas**, E. A. de Vasconcelos, W. M. de Azevedo, E. F. da Silva Jr., I. Pepe, A. Ferreira da Silva, S. Santedicola Ribeiro and K. Abreu Silva.  
Silicon-conducting polymer heterojunction: a new ultraviolet photodetector
- P-TU-32** **N. Peltekis**, B. Holland, L. Piper, A. DeMasi, J. E. Downes, H. E. Trodahl, K. E. Smith, I. T. McGovern and C. McGuinness.  
The Local Electronic Structure of Tin Phthalocyanine studied by Resonant Soft X-ray Emission Spectroscopies.
- P-TU-33** **M. D. Moreira**, P. Venezuela and T. M. Schmidt.  
Structural and electronic properties of the adsorption of hydroxyl on InP nanowire surface.
- P-TU-34** **M. D. Moreira**, P. Venezuela and R. H. Miwa.  
Ab initio study of (InP)*m*/(InAs)*n* nanowires.
- P-TU-35** M. E. Reimer, M. Korkusiński, J. Lefebvre, J. Lapointe, P. Poole, G. Aers, D. Dalacu, W. R. McKinnon, S. Frédérick, P. Hawrylak, **R. L. Williams**.  
Engineering Hidden Symmetry within Gated Quantum Dots - A Scalable Route to Entangled Photon Pairs.

- P-TU-36** **A. Alfaro-Martínez** and I. Hernández-Calderón. Interface homogenization of CdSe ultra-thin quantum wells grown by atomic layer epitaxy and finished with fractional monolayers.
- P-TU-37** H. Toku, **R. S. Pessoa**, L. F. Q. P. Marchesi, H. S. Maciel, M. Massi, and A.S. da Silva Sobrinho. Variation of substrate bias voltage, a key for controlling the crystallographic orientation of thin films.
- P-TU-38** **R. S. Pessoa**, H. Toku, H. S. Maciel, G. Petraconi, and M. Massi. Effect of residence time on the morphology of Si etched in SF<sub>6</sub> plasmas.
- P-TU-39** H. J. Myoung, S. Y. Lee, S-L. Maeng, I. Chin, G. A. J. Amaratunga, **S-H. Kim**. Photoelectronchemical energy converting devices based on blend of P3HT and Fullerene.
- P-TU-40** **T. Lalinský**, R. Rufer, G. Vanko and S. Mir. AlGa<sub>N</sub>/Ga<sub>N</sub> heterostructure based surface acoustic wave structures for chemical sensors.
- P-TU-41** **J. Osvald**. Numerical analysis of gate leakage current in AlGa<sub>N</sub> Schottky diodes.
- P-TU-42** K. Hinrichs, S. D. Silaghi, D.M. Rosu, D. R. T. Zahn and **N. Esser**. Structural analysis of biomolecular films.
- P-TU-43** **D. R. T. Zahn**, M. Friedrich, J. Sindu, S. Rudra, D. Lehmann, and N. Esser. Vacuum ultraviolet ellipsometry investigation of ultrathin organic films and their heterostructures.

- P-TU-44** V. M. Dzhagan, M. Ya. Valakh, A. E. Raevskaya, A. L. Stroyuk, S. Ya. Kuchmiy, and D. R. T. Zahn.  
Characterization of semiconductor core-shell nanoparticles by resonant Raman scattering and photoluminescence spectroscopy.
- P-TU-45** J. Nishinaga, A. Kawaharazuka and Y. Horikoshi.  
RHEED intensity oscillations of C60 growth.











