

Lista de Publicações

1. Artigos publicados de esta tese

- **P. Ayala**, F.L. Freire Jr., M.H. Rummeli, A. Grüneis, T. Pichler. *Chemical Vapor Deposition of Functionalized Single-Walled Carbon Nanotubes with defined nitrogen doping*. **Physica Status Solidi b** (submetido Maio 2007)
- **P. Ayala**, A. Grüneis, C. Kramberger, M.H. Rummeli, I.G. Solórzano, F.L. Freire Jr. T. Pichler. *Effects of the reaction atmosphere composition on the synthesis of single and multiwall nitrogen doped nanotubes*. **Journal of Chemical Physics** (submetido Mar 2007)
- **P. Ayala**, A. Grüneis, T. Gemming, D. Grimm, B. Büchner, M.H. Rummeli, J. Schumann, R. Kaltofen, F.L. Freire Jr., T. Pichler. *Influence of the catalyst pre-treatment on the growth of vertically aligned Nitrogen-containing nanotubes* **Chemistry of Materials** (submitted Feb 2007)
- **P. Ayala**, A. Grüneis, T. Gemming, D. Grimm, C. Kramberger, M.H. Rummeli, F.L. Freire Jr., H. Kuzmany, R. Pfeiffer, A. Barreiro, B. Büchner, T. Pichler. *Tailoring N-doped single and double wall carbon nanotubes from a non-diluted Carbon/Nitrogen feedstock*. **Journal of Physical Chemistry C** 101 (2007) 2879.
- **P. Ayala**, F.L. Freire, Jr., L. Gu, David J. Smith, I.G. Solórzano, D.W. Macedo, J.B. Vander Sande, H. Terrones, J. Rodriguez-Manzo and M. Terrones *Decorating carbon nanotubes with nanostructured nickel particles via chemical methods* **Chemical Physics Letters**, 431 (2006) 104-109

2. Outros artigos relacionados com esta tese

- M.H. Rummeli, C. Kramberger, A. Grüneis, **P. Ayala**, T. Gemming, B. Büchner, T. Pichler *On the graphitisation nature of oxides for the formation of carbon nanostructures*, **Chemistry of Materials Communications** (submetido Junho 2007)

- M.H. Rümmeli, C. Kramberger, F. Schäffel, E. Borowiak-Palen, T. Gemming, B. Rellingaus, O. Jost, M. Löffler, **P. Ayala**, T. Pichler, R.J. Kalenczuk *Catalyst size dependencies for carbon nanotube synthesis*, **Physica Status Solidi (b)** (submetido Maio 2007)
- A. Grüneis, D. Grimm, C. Kramberger, **P. Ayala**, M.H. Rümmeli, J. Schuman, R. Kaltofen, B. Büchner, C. Schaman, H. Kuzmany, T. Gemming, A. Barreiro, T. Pichler. *Staged chemical vapor deposition: a novel approach for the growth of pure and ultra long vertically aligned single wall carbon nanotubes* **Chemical Physics Letters** (submetido Nov 2006)
- A. Grüneis, C. Kramberger, D. Grimm, T. Gemming, M.H. Rümmeli, A. Barreiro, **P. Ayala**, T. Pichler, Ch. Schaman, H. Kuzmany, J. Schumann, B. Büchner. *Eutectic limit for the growth of carbon nanotubes from a thin iron film by chemical vapor deposition of cyclohexane*. **Chemical Physics Letters** 425 (2006) 301-305
- A. Grüneis, M.H. Rümmeli, C. Kramberger, D. Grimm, T. Gemming, A. Barreiro, **P. Ayala**, T. Pichler, H. Kuzmany, C. Schaman, R. Pfeiffer, J. Schumann, B. Büchner Growth of carbon nanotubes from wet chemistry and thin film multilayer catalysts. **Physica Status Solidi (b)** 243 (2006) 3054-3057
- M.H. Rümmeli, C. Kramberger, M. Löffler, M. Kalbac, H.-W. Hübers, A. Grüneis, A. Barreiro, D. Grimm, **P. Ayala**, T. Gemming, F. Schäffel, L. Dunsch, B. Büchner, T. Pichler *Synthesis of single wall carbon nanotubes with invariant diameters using a modified laser assisted chemical vapour deposition route* **Nanotechnology** 17 (2006) 5469-5473
- M.H. Rümmeli, A. Grüneis, M. Löffler, O. Jost, R. Schönfelder, C. Kramberger, D. Grimm, T. Gemming, A. Barreiro, E. Borowiak-Palen, M. Kalbac, **P. Ayala**, H.-W. Huebers, B. Büchner, T. Pichler *Novel catalysts for low temperature synthesis of single wall carbon nanotubes*, **Physica Status Solidi (b)** 243 (2006) 3101-3105

3. Contribuições em livros de conferências e Proceedings

P. Ayala, F.L. Freire Jr, I.G. Solórzano-Naranjo *TEM characterization of pyrolytically grown multiwalled carbon nanotubes*. **Brazilian Journal of Morphological Science** (2005) 389-390. Águas de Lindóia.

P. Ayala, I.G. Solórzano-Naranjo, F.L. Freire Jr. *TEM characterization of carbon nanotubes-reinforced metal- matrix nanocomposi-*

tes. **Proceedings 8th Inter-American Congress on Electron
Microscopy**, 2005 La Havana