

2011 Scientific Performance

At the end of 2011 there were 26 PhD holding members and 71 researchers and post-graduation students working at the Institute, which in that year were responsible for the publication of 54 articles in peer-reviewed, 16 chapters of internationally edited books, 6 PhD and 34 MSc theses. Additionally, 86 communications were presented in international scientific conferences and 4 patents were granted to, or applied for, by members of IPC. This output is consistent with the trend of the last years, albeit with some variations from year to year. Concurrently, there was an undeniable consolidation of the international visibility of the members of the Institute, as a result of increasing editorial activities, of the consistent organization of scientific events and invitations for conferences and of the award of international prizes.

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Books

1. Gaspar-Cunha, A.; Covas J. A.; **Optimization in Polymer Processing**; Nova Publisher, (ISBN: 978-1-61122-818-2), 2011.

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2. Costa, S.; Duarte, F.M.; Covas, J. A.; **Using matlab to compute heat transfer In free form extrusion MATLAB - A Ubiquitous Tool for the Practical Engineer** , InTech 453-474, 2011, (ISBN: 978-953-307-907-3).
3. Covas, J. A.; Gaspar-Cunha, A.; Introduction [to] "**Optimization in polymer processing**"; , Nova Science Publishers, 1-7, 2011, (ISBN: 978-1-61122-818-2).
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5. Denchev Z.; Viana, J.C.; **X-Ray Scattering Studies Multiphase Polymer Systems in: Handbook of Multiphase Polymer Systems** ; Handbook of Multiphase Polymer Systems, John Wiley & Sons Volume 1 667-701, 2011, (ISBN: 0-470-71420-4).
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10. Machado, A.V.; Covas J. A.; Pessan L. A.; Larocca N.; **Polymer blend compatibilization by copolymers and functional polymers;**

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12. Nóbrega, J. M.; Carneiro, O. S.; **Automatic design of extrusion dies and calibration/cooling systems**

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13. Santos, R.M.; Cramez, M. C.; Botelho M. G.; Machado, A.V.; **Natural and accelerated weathering of Acrylonitrile-Butadiene-Styrene (ABS)**

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3. Ana Lima; **Synthesis and Characterization of Bionanocomposites for Packging Applications** ; Dissertação de Mestrado, 2011.

4. Ana Nunes; **Preparação e caracterização de nanocompósitos à base de PMMA para próteses dentárias** ; Dissertação de Mestrado, 2011.

5. Andreia Fernandes; **Degradação Controlada de EPM no fundido**; Dissertação de Mestrado, 2011.

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11. Daniel Ferreira Carmo Correia; **Study of the processing and properties of mixtures of recycled plastics for outdoor applications** ; Mestrado Integrado em Engenharia de Polímeros, 2011.

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14. Fantina Lima Rosa Esteves; **Production and characterization of structural foams for application with hybrid moulds** ; Mestrado Integrado em Engenharia de Polímeros, 2011.

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