

Felipe Cícaroni Fernandes

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Education and Research Experience

2015 - Present PhD in Engineering

University of Warwick, Coventry, United Kingdom

Supervisors: Prof Kerry Kirwan and Dr Stuart Coles

Project title: Green composite structures from waste vegetable oil.

Funding body: National Counsel of Technological and Scientific Development

2013 -2014 M Sc in Physical Chemistry

Universidade Estadual de Campinas UNICAMP, Campinas, Brazil

Supervisor: Prof Marco Aurelio De Paoli

Master's dissertation title: Composites of polyamide-6 and bleached and semi-bleached cellulose fibers prepared by extrusion.

Funding body: National Counsel of Technological and Scientific Development

2009 -2012 BSc in Chemistry

Universidade Estadual de Campinas UNICAMP, Campinas, Brazil

Supervisor: Prof Ana Flávia Lloqueira

Undergrad. Research project title: Application of ruthenium-based metal polymers in different assemblies of 3G solar cells

Funding body: National Counsel of Technological and Scientific Development

Academic Production

Selected Publications

1. Fernandes F. C., Gadioli, R., Yassitepe, E., De Paoli, M. A. Polyamide-6 composites reinforced with cellulose fibers and fabricated by extrusion: Effect of fiber bleaching on mechanical properties and stability. *Polymer Composites Early View* (2015).
2. De Paoli, M. A., Fernandes F. C. Properties of polyamide-6/cellulose composites enhanced by lignin-containing fibers *SP EP lastics Research Online* **7**, 1- 3 (2015).
3. Benedetti, J. E., Freitas, F. S., Fernandes, F. C., Gonçalves, A. S., Magalhães, A., Lloqueira, A. F. Investigation of the structural properties of poly(ethylene oxide) copolymer as gel polymer electrolyte and durability test in dye-sensitized solar cells *Ionics* **21**, 1771 - 1780 (2015).

Selected Conference Papers and Presentations

1. Fernandes F. C., Wilson, P., Kirwan, K., Coles, S. R. Bio-based thermoset polymers from waste vegetable oil. In: 20th Annual American Chemical Society Green Chemistry & Engineering Conference, Portland, OR, USA (2016).
2. Fernandes F. C., Kirwan, K., Sotenko, M., Coles, S. R. Toward greener epoxy resins based on waste frying oil. In: 23rd Annual Meeting of the Bio-Environmental Polymer Society, Karlsruhe, Germany (2015).
3. Fernandes F. C., Gadioli, R., De Paoli, M. A. Composites of polyamide-6 with bleached or semi-bleached cellulose fibers prepared by extrusion. In: XLV Latin American Symposium on Polymers, Porto de Galinhas, Brazil (2014).

4. De Paoli, M. A., Fernandes F. C., Gadioli, R. Com pósitos de poliamida-6 e fibra de celulose branqueada preparados por extrusão. In: 37^a Reunião Anual da Sociedade Brasileira de Química, Natal, Brazil (2014).
5. Fernandes F. C., Nogueira Ana F. Aplicação de um polímero conjugado contendo rutênio em células solares orgânicas de heterojunção dispersa. In: XX Congresso Interno de Iniciação Científica, Campinas, Brazil (2012).
6. Fernandes F. C., Nogueira, A. F., Freitas De, J. *et al.* Aplicação de um polímero conjugado contendo Európio em células solares orgânicas de heterojunção dispersa. In: 34^a Reunião Anual da Sociedade Brasileira de Química, Florianópolis, Brazil (2011).

Journal Reviewer

2016- Present Journal of Polymers and the Environment

Professional & Teaching experience

2015- 2015 Administrative Assistant

University of Warwick, Coventry, United Kingdom

Part-time job supporting activities associated with the Sustainable Development of Materials, Processes and Fuels Summer School.

2013 -2013 Teaching Assistant

Universidade Estadual de Campinas, UNICAMP, Campinas, Brazil

Teaching assistant for undergraduate level students from Faculty of Chemical Engineering. "Experimental Inorganic Chemistry for Chemical Engineers".

Supervisions

2015- 2016

Danielle Lehane, "Bio-composites from waste vegetable oil reinforced with different fibres" Undergraduate project, University of Warwick, Coventry, United Kingdom.

2016- Present

Billie Argent "Application of recycled infusion bags in HDPE composites prepared by extrusion." WMG Summer Research Internships University of Warwick, Coventry, United Kingdom.

Event organization

2016

WMG Doctoral Conference, University of Warwick, Coventry, United Kingdom. 21st June 2016. Conference Chair.

2015

Sustainable Development of Materials, Processes and Fuels Summer School, University of Warwick, Coventry, United Kingdom. 9-12th June 2015. Administrative Staff.

Skills

Language: Portuguese (Native), English (IELTS 7.5/9), Spanish (Intermediate Level), Italian (Basic level)

2015- Present

Postgraduate Certificate in Transferable Skills in Science

University of Warwick, Coventry, United Kingdom

Postgraduate level Courses in Team Working in a Research Environment and Science Communication