Curriculum Vitae

Roger C. Hiorns

Nationality British
Date of birth 15.10.1967
Situation Separated, 2 children
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Position Directeur de Recherche, CNRS, HDR
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Positions

2024 March-August **Visiting Professor** (MS-6), UNESP, Bauru, Brazil (FAPESP 2023/12686-6)

2022 Sept-Dec **Visiting Professor** (MS-6), UNESP, Presidente Prudente, Brazil (FAPESP 2022/07136-4)

2019 -present **Directeur de Recherche CNRS (DR2)**, IPREM (CNRS UMR-5254)
Syntheses of block copolymers for organic photovoltaics and biomaterials

2009 - 2019 **Chargé de Recherche CNRS (CR1)**, IPREM (CNRS UMR-5254)
Syntheses of n-type polymers and block copolymers

2007 - 2009 **Ingénieur en Sciences des Polymères CNRS**, LCPO, ENSCPB, IPB
Syntheses of block copolymers for photovoltaic applications
Directors: Prof. H. Cramail and Dr. E. Cloutet

2002 - 2006 **Ingénieur en Sciences des Polymères**, LPCP, Université de Pau
Preparation of thiophene and C_{60} based polymers for solar cells
Directors: Dr J. François and Prof. J. Desbrières.

2000 - 2002 **Post-doc**, LPCP, Université de Pau. Exploitation of a wide range of organo-metallically mediated polymerizations. Director: Dr B. François.

Responsibilities

2022 **Co-Chair**, Fundação para a Ciência e a Tecnologia (FCT) Portugal, Materials Engineering and Nanotechnology, Individual Call to Scientific Employment Stimulus

2018-2021 & 2012-2015 **Titular Member**, IUPAC Polymer Division

2015 - 2025 **IUPAC Division IV representative**, *Pure and Applied Chemistry*

2015 - 2017 **Member**, Commission Energie et Développement Durable, Communauté de Communes de Vic-Montaner

2014 - 2020 **Chair**, IUPAC Subcommittee on Polymer Terminology

2016 - 2017 **Associate Member**, IUPAC Polymer Division

2010 - 2013 **Secretary**, IUPAC Subcommittee on Polymer Terminology

2010 - 2011 **Associate Member**, IUPAC Polymer Division

2009 - present **Associate Editor**, *Polymer International*

2007 - present **Member**, IUPAC Subcommittee on Polymer Terminology

2000 - 2008 **Technical Editor**, *Polymer International*

Publications

Patents	8
Peer Reviewed Articles	**83**
Wikipedia pages	1
Book Chapters	5
Guest Editing Special Issues, and Associate Editor guiding the Guest Editor	7
Invited Lectures at International Conferences	21
Invited Lectures at National Conferences	1
Invited Seminars	32
Taught courses	3
Conference Oral Presentations by Peer Review	47
Poster presentations by Peer Review	46
***h* index** (Google Scholar)	**28**
i10-index (Google Scholar)	**54**
citations (Google Scholar)	>3100
Responsible for funding since 2009	*ca* 7.3 M€

Other Responsibilities towards the Scientific Community

Visiting Professor, Universidade Estadual Paulista Júlio de Mesquita Filho (UNESP), Presidente Prudente, Brazil, September 2012, 2015, 2017, 2018, February, September and November 2019, February 2020.
Visiting Professor, Escola de Artes, Ciências e Humanidades, Universidade de São Paulo, Feb. 2020.
Visiting Researcher, School of Engineering & Applied Science, Aston University, UK, April 2012 & Oct. 2017.
Referee *Advanced Materials, Advanced Energy Materials, Nature Chemistry, Nature Communications, etc.*

Selected Projects as Coordinator

2024-2027 **'**Efficient Organic Photovoltaic Sensors (EFFECTOR)'. HORIZON-CL5-2024-D3-01-02-EFFECTOR-101172820: Low-power PV. Score 14.5/15. Starting 1/10/2024 to last 36 months. Partners: Dracula Technologies (Fr), Syddansk Universitet, e-peas, Innocell Aps, Teknologian Tutkimuskeskus VTT Oy, Polar Electro Oy, CardLab Aps, Semtech Technologies. Advisory board Members: François Grenier (Brilliant Matters) and Patricia Targon Campana (University of São Paulo).
Project awarded 3.0 million €.

2021-2024 **'**Synthesis and Modeling of Stable and Novel Organic Materials for High Efficiency Solar Cells', European Union's Horizon H2020 Research and Innovation under the MSCA Grant Agreement N° 945416/UPPA, for G. M. Aibara Paschoal**,** PhD Fellow. 100 k€

2021 **'**Polymer-based piezoelectricity improved through the use of novel additives: structure-property relationships'. Eiffel-doctorat/Campus France for Mme Jessyka BITTENCOURT to work at IPREM for 12 months, around 25k€.

2017-2020 'Amphiphilic poly(fullerene)s for bio-electronic applications', UPPA. 100 k€

2012-2015 '*Incorporation of Fullerene into Polymers for Photovoltaic Applications*' ('*Incorporation du Fullerène en Polymère Pour des Applications Photovoltaïques*'). Conseil Region Aquitaine, France. € 144 000

2011-2015 'Ensuring Stability in Organic Solar Cells' (Establis), Marie Curie Initial Training Network (ITN), FP7-PEOPLE-2011-ITN-ESTABLIS-290022. 15 Partners, 11 PhD Students, 4 postdocs. 3.9 million €.

Selected Publications

Patents

5 World patent PCT/IB2017/088955 A1, 'Semiconducting Mixtures', R. C. Hiorns (CNRS), H. H. Ramanitra (UPPA), D. Bégué (UPPA), H. Santos Silva (UPPA) A. Distler (Belectric OPV GmbH), S. Dowland (Belectric OPV GmbH), G. Morse (MERCK). Merck/CNRS/UPPA/Belectric OPV GmbH. 1 June, **2017**.

Papers

82 Nanostructured films of PM6 and Y6 and their assembly using Langmuir-Schaefer techniques, Maria E. R. S. Medina, Nyara D. Ferreira, Luiz A. R. Junior, Marcelo S. Borro, André V. S. Simõis, Mateus D. Maximino, Carlos J. L. Constantino, Roger C. Hiorns, Maria L. Braunger, Clarissa A. Olivati, *Thin-Solid Films*, *in-press*, **2024**. https://doi.org/10.1016/j.tsf.2024.1

78 Review: Syntheses of biocompatible polymers for drug delivery applications, Linda W. Oktavia, Didier Bégué, Patricia Targon Campana, Roger C. Hiorns, *Polymer International*, **2023**, *72*(10), 881.

71 **Front page**, Review: materials and modelling for organic photovoltaic devices, O. Doat, Bruno H. Barboza, A. Batagin-Neto, D. Bégué, R. C. Hiorns, *Polymer International*, **2022**, *1*, 6-25.

68 **Front page** *In-situ* generation of fullerene from a poly(fullerene), H. Santos Silva, H. H. Ramanitra, B. A. Bregadiolli, Aurélien Tournebize, D. Bégué, S. Dowland, C. Lartigau-Dagron, C. F. O. Graeff, A. Distler, H. Peisert, T. Chassé, R. C. Hiorns, *Journal of Polymer Science, Pt B, Polymer Physics*, **2019**, *57*, 1434.

58 Main-Chain poly(fullerene) multiblock copolymers as organic photovoltaic donor-acceptors and stabilizers, M. Raissi, H. Erothu, E. Ibarboure, H. Bejbouji, H. Cramail, E. Cloutet, L. Vignau, R. C. Hiorns, *J. Mater. Chem. A*. **2017**, *5*, 7533.

56 Oligo- and Poly(fullerene)s for Photovoltaic Applications: Modelled Electronic Behaviours and Synthesis, H. Santos Silva, H. H. Ramanitra, B. A. Bregadiolli, D. Bégué, C. F. O. Graeff, C. Dagron-Lartigau, H. Peisert, T. Chassé, R. C. Hiorns, *J. Polym. Sci. Pt A: Polym. Chem.*, **2017**, *55*, 1345-1355.

52 Increased Thermal Stabilization of Polymer Photovolatic Cells with Oligomeric PCBM',H. H. Ramanitra, S. A. Dowland, B. A. Bregadiolli, M. Salvador, H. Santos Silva, D. Bégué, C. F. O. Graeff, H. Peisert, T. Chassé, S. Rajoelson, A. Osvet, C. J. Brabec, H.-J. Egelhaaf, G. E. Morse, A. Distler, R. C. Hiorns, *J. Mater. Chem. C.*, **2016**, 4, 8121-8129.

51 Sterically Controlled Azomethine Ylide Cycloaddition Polymerization of Phenyl-C_{61}-butyric Acid Methyl Ester', M. Stephen, H. H. Ramanitra, H. Santos Silva, S. A. Dowland, D. Bégué, K. Genevičius, K. Arlauskas, G.Juška, G. E. Morse, A. Distler, R. C. Hiorns, *Chem. Comm.*, **2016**, 52, 6107.