

Curriculum Vitae

Nationality British

Date of birth 15.10.1967

Situation Divorced, 2 children

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http://iprem.univ-pau.fr/fr/_plugins/mypage/mypage/content/rhiorns.html

Roger C. Hiorns FRSC

Position Directeur de Recherche, CNRS, HDR

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Positions

2019 – present	Directeur de Recherche CNRS (DR2), IPREM (CNRS UMR-5254) Syntheses of copolymers for organic photovoltaics, biomaterials and piezoelectrics
2025 Nov – Dec	Visiting Professor (MS-6), EACH, University of São Paulo, São Paulo, Brazil
2024 Feb – Aug	Visiting Professor (MS-6), UNESP, Bauru, Brazil (FAPESP 2023/12686-6)
2022 Sept – Dec	Visiting Professor (MS-6), UNESP, P. Prudente, Brazil (FAPESP 2022/07136-4)
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
2002 – 2006	Ingénieur en Sciences des Polymères, LPCP, Université de Pau Preparation of thiophene and C ₆₀ based polymers for solar cells
2000 – 2002	Post-doc, LPCP, Université de Pau. Organo-metallic mediated polymerizations

Key projects and Awards

2027 – 2030	Coordinator, HORIZON MSCA Doctoral Network 'SOLSTIS' 101312390
2025 – 2027	Coordinator, HORIZON Innovation Action 'EFFECTOR' 1011728290
2012 – 2015	Coordinator, FP7 ITN Doctoral Network 'ESTABLIS' 290022
2026	Distinguished Service Award (DSA), Society of Chemical Industry

Responsibilities

2025 & 2026	Chair, Fundação para a Ciência e a Tecnologia (FCT) Portugal, Materials Engineering and Nanotechnology, Individual Call to Scientific Employment Stimulus
2014 – 2020	Chair, IUPAC Subcommittee on Polymer Terminology
2010 – 2013	Secretary, IUPAC Subcommittee on Polymer Terminology
2007 – present	Member, IUPAC Subcommittee on Polymer Terminology
2018–2021 & 2012–2015	Titular Member, IUPAC Polymer Division
2016–2017 & 2010–2011	Associate Member, IUPAC Polymer Division
2015 – present	IUPAC Division IV representative, <i>Pure and Applied Chemistry</i>
2024 – present	Executive Editor, <i>Polymer International</i>
2009 – 2024	Associate Editor, <i>Polymer International</i>
2000 – 2008	Technical Editor, <i>Polymer International</i>

Publications

Patents	8
Peer Reviewed Articles	91
Wikipedia pages	1
Book Chapters	6
Guest Editing and Associate Editor to Special Issues	7
Invited Lectures at International Conferences	24
Invited Seminars	37
Conference Oral Presentations by Peer Review	51
PhD and postdoctoral Direction and co-Direction	11 and 6
PhD juries	15
<i>h</i> index (Google Scholar)	30
citations (Google Scholar)	>3600
Responsible for funding since 2009	ca 12.2 M€

Other Responsibilities to the Scientific Community

Visiting Professor, Escola de Artes, Ciências e Humanidades, Universidade de São Paulo, Feb. 2020 and March 2025.

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 Researcher, School of Engineering & Applied Science, Aston University, UK, April 2012 & Oct. 2017.

Journal Referee	<i>Advanced Materials, Advanced Functional Materials, Advanced Energy Materials, Australian Journal of Chemistry, Biomacromolecules, Chem. Commun., Dalton Transactions, Physical Chemistry Chemical Physics, J. Am. Chem. Soc., J. Mater. Chem., Macromolecules, Nature, Nature Chemistry, Nature Commun., Polymer International, etc.</i>
Project Referee	Research Centres of Excellence: Aston Management, Aston University 2011; FCT Portugal, Materials Engineering and Nanotechnology, Individual Call to Scientific Employment Stimulus, Co-Chair 2022, Portugal; FCT, ICDT2023, Review Panel Member, Portugal; FCT, CEECInd2020, Review Panel Member, Portugal; FCT, CEECInd2018, Complaint Analysis Panel, Portugal. ANR referee for the 'Programme Blanc', 2012, 2013, 2016, 2020
Member	Sociedade Brasileira de Pesquisa em Materiais, Sociedade Brasileira de Química
Fellow	Royal Society of Chemistry since 2024

Habilitation à Diriger des Recherches (HDR)

'Chimie des Polymères, notamment les copolymères à base de Fullerène/Polymer Chemistry, notably copolymers based on fullerene', awarded **2011** by the Université de Pau et des Pays de l'Adour

Education

1994 – 1998 PhD (UK) and Doctorat (France) by *cotutelle*, 'Synthesis and characterisation of novel copolymers of polymethylphenylsilane', Synthèse et Caractérisation de Nouveaux Copolymères à Bloc à Base de Poly(méthylphénylsilylène). Directors: Prof. R. G. Jones (University of Kent, UK) and Prof. F. Schué (Université de Montpellier). Funded by FP3.

1993 – 1994 MSc, Materials Chemistry, 'Synthesis of novel silicon-based polymers', University of Kent (UK).

1986 – 1989 BSc (Hons), Chemistry, University of Birmingham (UK)

Key grant awards as project coordinator

19 'Highly Efficient and Stable Organic Photovoltaic Indoor Sensors (SOLSTIS)'. HORIZON-MSCA-2025-Doctoral Network-01-01-SOLSTIS-101312390. 1/1/2027 – 31/12/2030. Partners: Oxford University, Dracula Technologies, Polar Electro Oy, CardLab Aps, Syddansk Universitet, Innocell Aps, University of Edinburgh, Université Catholique de Louvain, University of Oulu. Associate Partners: Université de Limoges, NRC (Canada), Teknologian Tutkimuskeskus VTT Oy, Brilliant Matters, EACH-University of São Paulo, e-peas, KAUST, Nano-C Inc, UPPA. Project awarded 4 880 710.08 €.

17 'Efficient Organic Photovoltaic Sensors (EFFECTOR)'. HORIZON-CL5-2024-D3-01-02-EFFECTOR-101172820: Low-power PV. 1/1/2025 – 31/12/2027. Partners: Dracula Technologies, 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 P. Targon Campana (University of São Paulo). Project awarded 2 999 671.90 €.

2 'Ensuring Stability in Organic Solar Cells' (ESTABLIS), MSCA (ITN), FP7-PEOPLE-2011-ITN-ESTABLIS-290022. 1/1/2012 – 31/12/2025. Partners: Université Blaise Pascal, Aston University, Eberhard-Karls-Universität Tübingen, Johannes Kepler Universität Linz, International Laser Centre, Instituto Madrileño de Estudios Avanzados, Vilnius University, Konarka Technologies GmbH, Merck Chemicals Ltd, Heraeus Precious Metals GmbH & Co KG, Associate Partners: Evonik Degussa GmbH, Siemens Corporate Technology, Amcor. Project awarded 3 870 292.89 €.

Reported at: <https://cordis.europa.eu/project/id/290022/reporting>

A dozen key publications

- 12 Review: Main-Chain Polyfullerenes: Taking Fullerene to the Next Dimension, M. A. G. B. Gomes, O. Ponce Gomes, P. Targon Campana, D. Bégué, R. C. Hiorns, *Polym. Int.* <https://doi.org/10.1002/pi.70122>
- 11 A Brief Guide to Polymer Terminology (IUPAC Technical Report), R. C. Hiorns, J. Vohlidal, R. Boucher, C. H. Chan, C. M. Fellows, M. Hess, R. G. Jones, P. Kratochvíl, C. K. Luscombe, J. B. Matson, G. Moad, O. Philippova, S. Slomkowski, N. Stingelin, P. Théato, J.-P. Vairon, M. Vert, *Pure and Applied Chemistry*, **2026**, <https://doi.org/10.1515/pac-2023-0304>.
- 10 A radical and environmentally friendly route to poly(fullerene)s incorporating C₆₀, C₇₀ and PCBM, E. Batagianni, O. Doat, N. Elissalt, D. E. Mounadjji Bouassa, J. C. Bittencourt, G. Cardoso Goncalves, V. Fernandes Moreno, J. V. Morais Lima, S. L. Fernandes, R. Ferranti, A. Khoukh, L. C. da Silva Filho, D. L. da Silva Agostini, C. de Almeida Olivati, P. Targon Campana, C. F. O. Graeff, D. Bégué, R. C. Hiorns, *Macromolecules*, **2025**, 58(3), 1686–1704 <https://doi.org/10.1021/acs.macromol.4c02154>
- 9 Review: Syntheses of biocompatible polymers for drug delivery applications, L. W. Oktavia, D. Bégué, P. Targon Campana, Roger C. Hiorns, *Polymer International*, **2023**, 72(10), 881. <https://doi.org/10.1002/pi.6529>
- 8 Influence of the solvents in the morphology of Langmuir and Langmuir-Schaefer films of PCBM and PCBM-based oligomers and polymers, L. Roncaselli, E. da Silva, M. Braunger, H. Ramanitra, M. Stephen, L. Citolino, J. Fernandes, A. Simões, C. J. Constantino, D. Agostini, D. Bégué, R. Hiorns, C. Olivati, *Physical Chemistry Chemical Physics*, **2022**, 24, 12442. <https://doi.org/10.1039/d1cp05408b>
- 7 Polyfullerene thin films applied as NH₃ sensors, A. V. Santos Simões, L. K. Martins Roncaselli, V. J. Rodrigues de Oliveira, M. E. Rocha Santos Medina, H. H. Ramanitra, M. Stephen, D. L. Silva Agostini, R. C. Hiorns, C. de Almeida Olivati, **2021**, 24(1), e20210435, *Materials Research*, <https://doi.org/10.1590/1980-5373-MR-2021-0435>
- 6 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, 7533-7544. <http://dx.doi.org/10.1039/C7TA01980G>
- 5 World patent PCT/IB2017/088955 A1, 'Semiconducting Mixtures', G. Morse, R. C. Hiorns, H. H. Ramanitra, D. Bégué, H. Santos Silva, A. Distler, S. Dowland, 2017.
- 4 Increased Thermal Stabilization of Polymer Photovoltaic Cells with Oligomeric PCBM, H. H. Ramanitra, S. A. Dowland, B. A. Bregadiolli, M. Salvador, H. S. 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. <https://doi.org/10.1039/c6tc03290g>
- 3 Synthesis of Main-chain Poly(fullerene)s from a Sterically Controlled Azomethine Ylide Cycloaddition Polymerization', H. H. Ramanitra, H. Santos Silva, B. A. Bregadiolli, A. Khoukh, C. M. S. Combe, S. A. Dowland, D. Bégué, C. F. O. Graeff, C. Dagron-Lartigau, A. Distler, G. Morse, R. C. Hiorns, *Macromolecules*, **2016**, 49(5), 1681-1691. <https://doi.org/10.1021/acs.macromol.5b02793>
- 2 Main-chain fullerene polymers for photovoltaics devices, R. C. Hiorns, E. Cloutet, E. Ibarboure, L. Vignau, N. Lemaitre, S. Guillerez, C. Absalon, H. Cramail, *Macromolecules*, **2009**, 42, 3549-3558. <https://doi.org/10.1021/ma900279a>
- 1 A Brief Guide to Polymer Nomenclature, R. C. Hiorns, R. J. Boucher, R. Duhlev, K.-H. Hellwich, P. Hodge, A. D. Jenkins, R. G. Jones, J. Kahovec, G. Moad, C. K. Ober, D. W. Smith, R. F. T. Stepto, J.-P. Vairon, J. Vohlidal, *Pure and Applied Chemistry*, **2012**, 84, 2167-2169. <http://dx.doi.org/10.1351/PAC-REP-12-03-05>