Curriculum Vitae Roger C. Hiorns

Nationality British
Date of birth 15.10.1967
Situation Married, 2 children
E-mail: roger.hiorns@univ-pau.fr
Position Chargé de Recherche, CNRS, HDR
IPREM (CNRS UMR-5254),
Université de Pau et les Pays de l'Adour
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Positions

2009 - present	**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

2018-2019 & 2012-2015	**Titular Member**, IUPAC Polymer Division
2015 - present	**IUPAC Division IV representative**, *Pure and Applied Chemistry*
2015 - 2017	**Member**, Commission Energie et Développement Durable, Communauté de Communes de Vic-Montaner
2014 - present	**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
2007 - 2009	**Editorial Board Member**: *The Open Physical Chemistry Journal; Open Physical Chemistry Reviews and Open Physical Chemistry Letters*
2000 - 2008	**Technical Editor**, *Polymer International*

Publications

Patents	6
Peer Reviewed Articles	**64**
Wikipedia pages	1
Book Chapters	2
Guest Editing Special Issues	5
Invited Lectures at International Conferences	20
Invited Lectures at National Conferences	1
Invited Seminars	29
Conference Oral Presentations by Peer Review	41
Poster presentations by Peer Review	45
***h* factor** (Google Scholar)	**22**
i10-factor (Google Scholar)	**40**
citations (Google Scholar)	>2100
Responsible for funding since 2009	*ca* 4.2 M€

Other Responsibilities to the Scientific Community

Visiting Scholar Universidade Estadual Paulista Júlio de Mesquita Filho (UNESP), Sao Paulo, Brazil, September 2012, September 2015 & September 2017.
School of Engineering & Applied Science, Aston University, UK, April 2012 & October 2017.

Journal Referee *Advanced Materials, Advanced Functional Materials, Advanced Energy Materials, Australian Journal of Chemistry, Biomacromolecules, Chemical Communications, Dalton Transactions, Physical Chemistry Chemical Physics, Journal of the American Chemical Society, Journal of Materials Chemistry, Macromolecules, Macromolecular Materials and Engineering, Macromolecular Chemistry and Physics, Nature, Nature Chemistry, Polymer, Polymer International, The Journal of Organic Chemistry,* and *Organic Letters etc.*

Project Referee Research Centres of Excellence: Aston Centre for International Solar Energy & Water Management, 2011; ANR referee for the 'Programme Blanc', 2012, 2013, 2016; Invited EEC Horizon2020-ITN expert for 2014; College d'Arudy Technology class 2014.

Special Issue Guest Editor

'Melanin and Melanin-like Substances', *Polymer International,* **2016**, volume 65, issue 11;
'DIELOR 2013', A. Moliton, R. C. Hiorns, *Polymer International,* **2014**, volume 63, issue 8;
'DIELOR 2011', A. Moliton, R. C. Hiorns, *Polymer International,* **2012**, volume 61;
'Professor R. G. 'Dick' Jones' Retirement Special Issue', *Polymer International,* **2009**, issue 58;
'DIELOR 2004', A. Moliton, R. C. Hiorns, *Polymer International*, **2006**, issue 55.

Habilitation à Diriger des Recherches (HDR) 2011, Université de Pau et des Pays de l'Adour

'Chimie des Polymères, notamment les copolymères à base de Fullerène/'Polymer Chemistry, notably copolymers based on fullerene'

Jury Members

Prof. Jean-Pierre Vairon, Université Pierre et Marie Curie	(Président)
Prof. Christophe Derail, Université de Pau et des Pays de l'Adour	(Director)
Prof. Piétrick Hudhomme, Université d'Angers	(Rapporteur)
Prof. Jenny Nelson, Imperial College London	(Rapporteur)
Prof. Dr. Mag. Niyazi Serdar Sariciftci, FRSC, Johannes Kepler University of Linz	(Rapporteur)
Dr. Hans-Joachim Egelhaaf, Konarka Technologies GmbH (now OPVIUS GmbH)	(Examinateur)
Dr. Danielle Gonbeau, Université de Pau et des Pays de l'Adour	(Examinateur)

Education

1994-1998 **PhD** (UK) and **Doctorat** (France) by *cotutelle*, 'Synthesis and characterisation of novel copolymers of polymethylphenylsilane'. Directors: Prof. R. G. Jones (University of Kent, UK) and Prof. F. Schué (Université de Montpellier, established 1220).
1993 - 1994 **MSc**, Materials Chemistry, University of Kent (UK).
1986 - 1989 **BSc (Hons)**, Chemistry, University of Birmingham (UK).

Additional Experience

1998-1999 **Editorial Assistant** for the Society of Chemical Industry, London
1989-1993 **Photographer** and b/w printer for the national press (Independent, The Guardian, Times, Daily Mirror *etc*.)

Project Coordinator – Grant Awards

8 Increasing the Efficiency of Organic Solar Panels (INFO). *Agence Nationale de la Recherche*. Funds for EEC project construction. Starting 1/09/2017 to last 18 months. **Project awarded 19 500 €.**

7 Synthesis and Characterisation of Amphiphilic Poly(fullerene) Copolymers for Bio-electronic Applications (SCAFOL). Awarded by *Université de Pau et des Pays de l'Adour*. Funds for one PhD. Starting 1/09/2017 to last 3 years. **Dr R. C. Hiorns (Director), Prof. D. Bégué (Co-director). Project awarded 100 000 €.**

6 Development Grant for Realisation of Graphene-based Materials for Organic Solar Cells, (GRAphT). Awarded by *Aquitaine Science transfer*. Funds for one Post-Doc. Starting 1/11/2015 to last 6 months. **Prof. D. Bégué and Dr R. C. Hiorns (Co-Coordinators, IPREM, France). Project awarded 30 000 €.**

5 '*A Brief Guide to Polymer Terminology*', IUPAC project 2012-048-3-400. Starting 3/6/2013 to last 36 months. Submitted by: Dr R. J. Boucher (J. Wiley and Sons, UK), Dr. C. H. Do (Korea), Dr R. Duhlev (Elsevier, UK), Dr K.-H. Hellwich (Germany), Dr R. C. Hiorns (**Coordinator**, France), Prof. P. Hodge (UK), Prof. P. Kratochvíl (Czech Republique), Prof. R. G. Jones (UK), C. Luscombe (USA); Prof. C. K. Ober (USA); Prof. C. K. Ober (USA); Prof. R. F. T. Stepto (UK); Dr. N. Stingelin (UK), Dr. M. Walter (USA), and Prof. J. Vohlidal (**Co-coordinator**, France). Project awarded 5000 US $.

4 '*Incorporation of Fullerene into Polymers for Photovoltaic Applications*' ('*Incorporation du Fullerène en Polymère Pour des Applications Photovoltaïques*', FULLINC). Awarded by *Conseil Region Aquitaine*. Funds for 1 Post-Doc and 1 PhD Fellow. Started 1/11/2012 to last 36 months. **Dr R. C. Hiorns (IPREM, France),** Dr C. Dagron (IPREM, France); Prof. Thomas Chassé (Partner leader, Inst. f. Physik. u. Theor. Chemie., Eberhard Karls Universität Tübingen, Germany), Dr H. Piesert (EKUT); Dr A. Sutherland (Partner leader, Aston University); Dr Hans-Joachim Egelhaaf (Partner Leader, Konarka OPV GmbH, Germany). **Project awarded 144 000 €.**

3 '*Fabrication et caractérisation de cellules solaires basées sur des polymères organiques nanostructurés*' (NANOSOL), Awarded by CAPES/COFECUB – Campus France. Funds for 2 visiting PhD students per year, and exchange voyages by Supervisors. Started 1/1/2012 to last 24 months. **Dr R. C. Hiorns** (**Coordinator, IPREM, France**), Dr D. Bégué (IPREM, France), Dr C. Dagron (IPREM, France); Prof. C. F. O. Graeff (**Coordinator, UNESP, Sao Paulo, Brazil**), Prof. C. Olivetti (UNESP, Sao Paulo, Brazil). **Project awarded *ca* 45 000 €**.

2 '*Ensuring Stability in Organic Solar Cells*' (EstabliS), Marie Curie Initial Training Network (ITN), FP7-PEOPLE-2011-ITN-ESTABLIS-290022. 4 Post-doctoral and 11 PhD Fellows, and one European Project Manager. Starting 1/1/2012 to last 48 months. **Dr R. C. Hiorns** (**Coordinator, France**); Partner Leaders: Dr A. Rivaton (CNRS-Université Blaise Pascal, Clermont-Ferrand, France); Dr P. D. Topham (Vice-Coordinator, Aston University, UK); Prof. T. Chassé (Eberhard-Karls-Universität Tübingen, Germany); Prof. S. Bauer (Johannes Kepler Universität Linz, Austria); Prof. F. Uherek (International Laser Centre, Slovakia); Prof. L. Lüer (Instituto Madrileño de Estudios Avanzados, Spain); Prof. G. Juska (Vilnius University, Lithuania); Dr H.-J. Egelhaaf (Advisor to the Coordinator, Konarka Technologies GmbH, Nürnberg, Germany); Dr S. Tierney (Merck Chemicals Ltd, UK); Dr W. Lövenich (Heraeus Precious Metals GmbH & Co KG, Germany). Director of Training: Dr A. Sutherland (Aston University, UK). Associate Partner Leaders: Dr M. Trocha, Evonik Degussa GmbH, Germany; Dr J. Wecker, Siemens Corporate Technology; Dr. B. Jannon, Amcor.
Project awarded 3 870 292.89 €.

1 '*A Brief Guide to Polymer Nomenclature*', IUPAC project 2008-032-1-400. Started 1/1/2009 to last 36 months. R. J. Boucher (J. Wiley and Sons, UK), Dr R. Duhlev (Elsevier, UK), Dr K.-H. Hellwich (Germany), Dr R. C. Hiorns (France), Prof. P. Hodge (UK), Prof. A. Jenkins (UK) Prof. R. G. Jones (UK); Prof. C. K. Ober (USA); Prof. D. W. Smith Jr (USA); Prof. J.-P. Vairon; and Prof. J. Vohlidal. **Project awarded 5000 US $.**

Project Partner – Grant Awards

9 **'**SuperSolar International and Industrial Engagement Award Visitors' fund, September 2017, coordinated by Dr. A. Sutherland, to visit Aston University, UK for 2 x 2 week stays, **3k€**.

8 Organic Photovoltaic Community Scale Installations, TEP-CV 2016 with Communauté de Communes Vic-Montaner (**Coordinator**), and Partners Belectric OPV GmbH (Dr. Ralph Pätzold), and IPREM (UMR 5254, CNRS) (Dr. Roger C. Hiorns), **2.5M€ of which 500 k€ for organic photovoltaic installations.**

Photo: award ceremony for TEP-CV, December 2016. L-R: Dr. R. C. Hiorns, Mme Ségolène Royal (Ministère de l'Environnement, de l'Énergie et de la Mer), M. P. Baylère (President Commission Commission Energie et Développement Durable, Communauté de Communes de Vic-Montaner), M. Jean-Louis Curret (President, Communauté de Communes de Vic-Montaner).

7 '*Revolutionizing Understanding of Organic Solar Cell Degradation to Design Novel Stable Materials*' (SolarRevolution), Marie-Curie Intra-European Fellowship for Career Development, FP7-PEOPLE-2012-IEF-SolarRevolution-331795. 1 Post-doctoral Fellow. Starting 1.05.2013 to last 24 months. Dr. Mike Wykes (**Principal Investigator**), Dr. Johannes Gierschner (**Coordinator**), Dr. Larry Lüer, Dr. Begoña Milián-Medina, IMDEA Nanoscience, Madrid, Spain; Dr. Roger C. Hiorns (**Partner Leader**), Dr. Didier Bégué, Dr. Christine Dagron-Lartigau, IPREM (EPCP), UMR-5254, France; Dr. Agnès Rivaton (Partner Leader, Clermont-Ferrand), Dr. Hans-Joachim Egelhaaf (Partner Leader, Belectric OPV). **Project awarded €167 000.**

6 'Synthesis and Application of Block Copolymers for Interfacial Stability in Organic Solar Cells' (SYNABCO), FP7-PEOPLE-IEF-SYNABCO-273316, Intra-European Fellowships (IEF) post-doc for 2 years starting 1/9/2011 with Industrial contact with Konarka Technologies GmbH. Participants: Dr Harikrishna Erothu (IEF Fellow, Aston University, UK), Dr Paul Topham (Coordinator, Aston University, UK), **Dr R. C. Hiorns (Partner Leader, IPREM, France)**, Dr Christine Dagron-Lartigau (IPREM, UPPA, France) and Prof. Ahmed Allal (IPREM, UPPA, France). Attained 93.6/100. **Project awarded 209 092 €.**

5 **'**CEllules PHOtovoltaïques Organiques à Couche active Stabilisée', CEPHORCAS, ANR project. Started 1.1.11, to last 4 years. Coordinator, G. Wantz (IPB, Bordeaux), IPREM (EPCP), Christine Dagron-Lartigau (Partner Leader, IPREM, UPPA). **Project awarded *ca* 750 k€.**

4 **'**Terminology for Chain Polymerizations', IUPAC project 2010-007-1-400, submitted by: Prof. P. Kubisa (Poland), Dr R. C. Hiorns (France), Prof. R. G. Jones (UK), Prof. T Kitayama (Japan), Prof. K. Matyjaszewski (USA), Dr G. Moad (**Coordinator**, Australia), and Prof. G. Russell (New Zealand). **Project awarded 6000 US $.**

3 'Revision of, 'IUPAC Recommendations on Macromolecular Nomenclature – Guide for Authors of Papers and Reports in Polymer Science and Technology"', IUPAC project 2008-020-1-400, submitted by: Prof. K.-H. Hellwich (Germany), Dr R. C. Hiorns (France), Prof. Phil Hodge (**Coordinator**, UK), Prof. J. Kahovec, Prof. R. G. Jones, and Prof. W. Mormann (Germany). **Project**

awarded 5000 US $.

2 'Glossary of Terms Relating to Electromagnetic Field-Responsive Polymers', IUPAC project 2006-028-1-400, submitted by: Prof. J. Vohlídal (**Coordinator**, Czech Republic), R. C. Hiorns (France), Prof. R. G. Jones (UK), Prof. C. Ober (USA), Prof. F. Schué (France), and Prof. J. Stejskal (Czech Republic). **Project awarded 6000 US $.**

1 'Fullerene based copolymers for opto-electronic applications', Initiator and Project Assembly for an EGIDE / RSC Franco-British Alliance with Dr S. J. Holder, University of Kent (UK), 2007-2008. **Project awarded 3000 € per participant.**

Publications

Peer Reviewed Papers

67 'Bromomethylation of π-conjugated substrates', H. Santos Silva, H. H. Ramanitra, B. A. Bregadiolli, D. Bégué, C. F. O. Graeff, R. C. Hiorns, *in preparation*.

66 'Degradation studies of polyfullerenes for organic photovotaics', H. Santos Silva, D. Bégué, S. Dowland, H. Peisert, T. Chassé, R. C. Hiorns, *in preparation*.

65 **'**ATRAP extends its reach: PolyPCBM for Organic Photovoltaics', H. H. Ramanitra, S. A. Dowland, B. A. Bregadiolli, H. Santos Silva, D. Bégué, C. F. O. Graeff, Heiko Peisert, T. Chassé, G. Morse, A. Distler, R. C. Hiorns, *in preparation*.

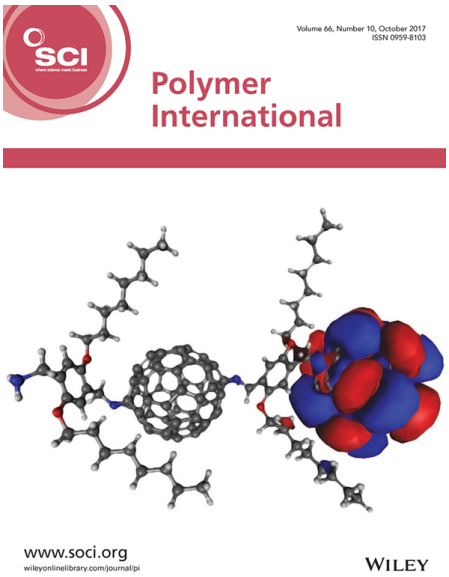
64 'Molecular organization relationship of low-bandgap polymers at the air-water interface and in solid films,' V. J. R. De Oliveira, E. A. Da Silva, M. L. Braunger, H. Awada, H. De Santana, R. C. Hiorns, C. Dagron-Lartigau, C. de Almeida Olivati, *Journal of Molecular Liquids*, **2018**, 268, 114-121. DOI: 10.1016/j.molliq.2018.07.018

63 'Langmuir and Langmuir-Schaffer Films of Low-bandgap Polymers', M. L. Braunger, E. A. Silva, H. Awada, H. S. Silva, D. Bégué, R. C. Hiorns, C. Dagron-Lartigau, C. A. Olivati, *Polymer International*, **2018**, *67*(8), 1028-1034. DOI: 10.1002/pi.5604

62 **'**Targeting Ideal Acceptor-Donor Materials Based on Hexabenzocoronene', Hugo Santos Silva, Sebastian Metz, Roger C. Hiorns, Didier Bégué, *Journal of Molecular Structure*, **2018**, *1161*, 442-452. DOI: 10.1016/j.molstruc.2018.02.067

61 'The role of donor polymer and PEDOT:PSS formulation on delamination processes in inverted organic solar cells', Alberto Gregori, Aurélien Tournebize, Stefan Schumann, Heiko Peisert, Roger C. Hiorns, Thomas Chassé, Christine Lartigau-Dagron, Ahmed Allal, *Solar Energy Materials & Solar Cells*, **2018**, 174, 25-33. DOI: 10.1016/j.solmat.2017.08.024

60 **Front Page** 'Towards the Syntheses of Main-Chain Oligo- and Poly(azafulleroid)s and their Use in Organic Photovoltaic Devices', Bruna A. Bregadiolli, Laura Corcoles, Lauren Kang, Hasina H. Ramanitra, Craig M. S. Combe, Rodrigo Marques Ferreira, Hugo Santos Silva, Didier Bégué, Francisco C. Lavada, Christine Dagron-Lartigau, Christine K. Luscombe, Clarissa Olivati, Carlos F. O. Graeff, Roger C. Hiorns, *Polymer International*, **2017**, 66, 1364-1371. DOI: 10.1002/pi.5419.



59 'The Contribution of IUPAC to Polymer Science Education', Chan Chin Han, Christopher M. Fellows, Michael Hess, Roger C. Hiorns, Voravee Hoven, Gregory T. Russell, Cláudio G. dos Santos, Adriana Šturcová, Patrick Theato, *J. Chem. Edu.*, **2017**, 94(11), 1618-1628. DOI: 10.1021/acs.jchemed.6b00800.

58 'Main-Chain Poly(fullerene) Multiblock Copolymers as Organic Photovoltaic Donor-Acceptors and Stabilizers', Mahfoudh Raissi, Harikrishna Erothu, Emmanuel Ibarboure, Habiba Bejbouji, Henri Cramail, Eric Cloutet, Laurence Vignau, Roger C. Hiorns, *J. Mater. Chem. A*. **2017**, *5*, 7533-7544. DOI: 10.1039/C7TA01980G

57 'Suppression of Thermally Induced Fullerene Aggregation in Polyfullerene Based Multi-Acceptor Organic Solar Cells', Simon A. Dowland, Michael Salvador, José Darío Perea, Nicola Gasparini, Stefan Langner, Sambatra Rajoelson, Hasina H. Ramanitra, Benjamin D. Lindner, Andres Osvet, Christoph J. Brabec, Roger C. Hiorns, Hans-Joachim Egelhaaf, *ACS Applied Materials & Interfaces*, **2017**, *9*, 10971. DOI: 10.1021/acsami.7b00401

56 'Oligo- and Poly(fullerene)s for Photovoltaic Applications: Modelled Electronic Behaviours and Synthesis', Hugo Santos Silva, Hasina H. Ramanitra, Bruna A. Bregadiolli, D. Bégué, Carlos F. O. Graeff, Christine Dagron-Lartigau, Heiko Peisert, Thomas Chassé, Roger C. Hiorns, *Journal of Polymer Science Part A: Polymer Chemistry*, **2017**, *55*, 1345-1355. DOI:10.1002/pola.28502.

55 'Main-Chain Fullerene and Dye Oligomers: Towards Alternating Fullerene Polymers for Organic Photovoltaics', Meera Stephen, Simon Dowland, Alberto Gregori, Hasina R. Ramanitra, Hugo Santos Silva, Craig M. S. Combe, Didier Bégué, Christine Dagron-Lartigau, Kristijonas Genevičius, Kęstutis Arlauskas, Gytis Juška, Andreas Distler, Roger C. Hiorns, *Polymer International*, **2017**, *66*, 388-398. DOI: 10.1002/pi.5273.

54 **'**Mini-review: Charge Transport and its Characterisation using Photo-CELIV in Bulk-Heterojunction Solar Cells', Meera Stephen, Kristijonas Genevičius, Gytis Juška, Kestutis

Arlauskas, Roger C. Hiorns, *Polymer International*, **2017**, *66*, 13-25. DOI: 10.1002/pi.5274.

53 **'**Designing intrinsically photostable low band gap polymers: a smart tool combining EPR spectroscopy and DFT calculations', Hugo Santos Silva, Isabel Fraga Domínguez, Anthony Perthué, Paul D. Topham, Pierre-Olivier Bussière, Roger C. Hiorns, Christian Lombard, Agnès Rivaton, Didier Bégué, Brigitte Pépin-Donat, *J. Mater. Chem. A.,* **2016**, *4*, 15647-15654. DOI: 10.1039/C6TA05455B.

52 'Increased Thermal Stabilization of Polymer Photovolatic Cells with Oligomeric PCBM', Hasina H. Ramanitra, Simon A. Dowland, Bruna A. Bregadiolli, Michael Salvador, Hugo Santos Silva, Didier Bégué, Carlos F. O. Graeff, Heiko Peisert, Thomas Chassé, Sambatra Rajoelson, Andres Osvet, Christoph J. Brabec, Hans-Joachim Egelhaaf, Graham E. Morse, Andreas Distler, Roger C. Hiorns, *J. Mater. Chem. C*., **2016**, 4, 8121-8129.DOI: 10.1039/C6TC03290G

51 'Sterically Controlled Azomethine Ylide Cycloaddition Polymerization of Phenyl-C_{61}-butyric Acid Methyl Ester', Meera Stephen, Hasina H. Ramanitra, Hugo Santos Silva, Simon A. Dowland, Didier Bégué, Kristijonas Genevičius, Kęstutis Arlauskas, Gytis Juška, Graham E. Morse, Andreas Distler, Roger C. Hiorns, *Chem. Comm.*, **2016**, 52, 6107-6110. DOI: 10.1039/C6CC01380E.

50 'Synthesis of Main-chain Poly(fullerene)s from a Sterically Controlled Azomethine Ylide Cycloaddition Polymerization', Hasina H. Ramanitra, Hugo Santos Silva, Bruna A. Bregadiolli, Abdel Khoukh, Craig. M. S. Combe, Simon A. Dowland, Didier Bégué, Carlos F. O. Graeff, Christine Dagron-Lartigau, Andreas Distler, Graham Morse, Roger C. Hiorns, *Macromolecules*, **2016**, 49(5), 1681-1691. DOI: /10.1021/acs.macromol.5b02793.

49 'Graphene-based acceptor molecules for organic photovoltaic cells: a predictive study identifying high modularity and morphological stability', D. Bégué, E. Guille, S. Metz, M.-A, Arnaud, H. Santos-Silva, M. Seck, P. Fayon, C. Dagron-Lartigau, P. Iratçabal, R. C. Hiorns, *RSC Advances*, **2016**, *6*, 13653-13656. DOI: 10.1039/C5RA25531G

48 'Correlating geometry of multidimensional carbon allotropes molecules and stability', Hugo Santos Silva, Jacky Cresson, Agnès Rivaton, Didier Bégué, Roger C. Hiorns, *Organic Electronics*, **2015**, *26*, 395–399. DOI: 10.1016/j.orgel.2015.08.004.

47 'Fullerene-capped Copolymers for Bulk Heterojunctions: Device Stability and Efficiency Improvements', M. Raïssi, H. Erothu, E. Ibarboure, H. Cramail, L. Vignau, E. Cloutet, R. C. Hiorns, *J. Mater. Chem. A.,* **2015**, *3*, 18207-18221. DOI: 10.1039/C5TA02705E

46 'Terminology and nomenclature: a prerequisite or nuisance for polymer science education?'**,** R. C. Hiorns, *Macromolecular Symposia*, **2015**, *355*(1), 13-19.

45 'Synthesis, Thermal Processing and Thin Film Morphology of Poly(3-Hexylthiophene)-Poly(Styrene Sulfonate) Block Copolymers', H. Erothu, J. Kolomanska, P. Johnston, S. Schumann, D. Deribew, D. T. W. Toolan, A. Gregori, C. Dagron-Lartigau, G. Portale, W. Bras,

T. Arnold, A. Distler, R. C. Hiorns, P. Mokarian-Tabari, T. W. Collins, J. R. Howse, P. D. Topham, *Macromolecules,* **2015**, *48,* 2107-2117.

44 'Is there a photostable conjugated polymer for efficient solar cells?' A. Tournebize, J.-L. Gardette, C. Taviot-Guého, D. Bégué, M. A. Arnaud, C. Dagron-Lartigau, H. Medlej, R. C. Hiorns, S. Beaupré, M. Leclerc, A. Rivaton, *Polymer Degradation and Stability*, **2015**, *112*, 175-184.

43 'A universal route to improving conjugated macromolecule photostability', H. Santos Silva, A. Tournebize, D. Bégué, H. Peisert, T. Chasse, J.–L. Gardette, S. Therias, A. Rivaton, R. C. Hiorns, *RSC Adv*ances, **2014**, *4*, 54919-54923.

42 'Conjugated-Polymer Grafting on Inorganic and Organic Substrates: A New Trend in Organic Electronic Materials', H. Awada, A. Bousquet, R. C. Hiorns, C. Dagron-Lartigau, L. Billon, *Progress in Polymer Science*, **2014**, 39, 1847-1877.

41 'Editorial: Organic electronics and eternal youth', R. C. Hiorns, A. Moliton, *Polymer International*, **2014**, *63*(8), 1333-1335.

40 'Versatile Functional Poly(3-hexylthiophene) for Hybrid Particles Synthesis by the Grafting Onto Technique: Core@Shell ZnO Nanorods', H. Awada, H. Medlej, S. Blanc, M.–H. Delville, R. C. Hiorns, A. Bousquet, C. Dagron-Lartigau, L. Billon, *Journal of Polymer Science Part A: Polymer Chemistry*, **2014**, 52(1), 30-38.

39 'New insights into the mechanisms of photo-degradation / stabilization of P3HT:PCBM active layers using poly(3-hexyl-d_{13}-thiophene)', A. Tournebize, P.-O. Bussiere, A. Rivaton, J.-L. Gardette, H. Medlej, R. C. Hiorns, C. Dagron-Lartigau, F. C. Krebs, K. Norrman, *Chemistry of Materials*, **2013**, 25(22), 4522-4528.

38 'Effect of spacer insertion in a commonly used dithienosilole/benzothiadiazole-based low band gap copolymer for polymer solar cells', H. Medlej, H. Awada, M. Abbas, G. Wantz, A. Bousquet, E. Grelet, K. Hariri, T. Hamieh, R. C. Hiorns, and C. Dagron-Lartigau, *European Polymer Journal*, **2013**, 49(12), 4176-4188.

37 **'**Enhanced thermal stability of organic solar cells by using photolinkable end-capped polythiophenes'**,** S. Khiev, L. Derue, G. Ayenew, H. Medlej, R. Brown, L. Rubatat, R. C. Hiorns, G. Wantz, C. Dagron-Lartigau, *Polymer Chemistry*, **2013**, *4*, 4145-4150.

36 **'**Facile synthesis of poly(3-hexylthiophene)-*block*-poly(ethylene oxide) copolymers via Steglich esterification', H. Erothu, A. A. Sohdi, A. C. Kumar, A. J. Sutherland, C. Dagron-Lartigau, A. Allal, R. C. Hiorns, P. D. Topham, *Polymer Chemistry*, **2013**, *4*, 3652–3655.

35 **'**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. Vohlídal, *Pure and Applied Chemistry*, **2012**, *84*, 2167-2169.

Reprinted 12 Times in the Following Journals

'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. Vohlídal, *Institut Kimia Malaysia Magazine*, **2016**,*122.*

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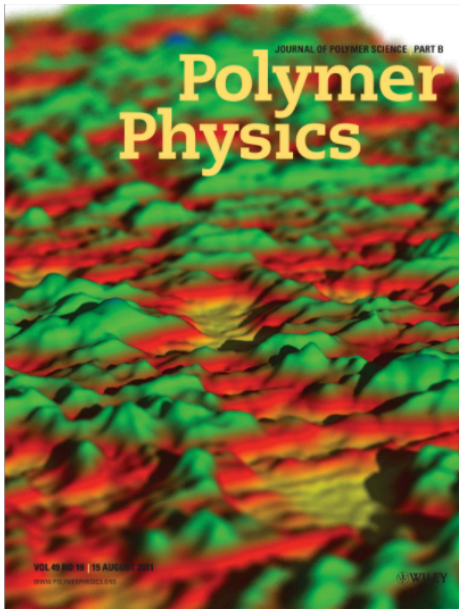

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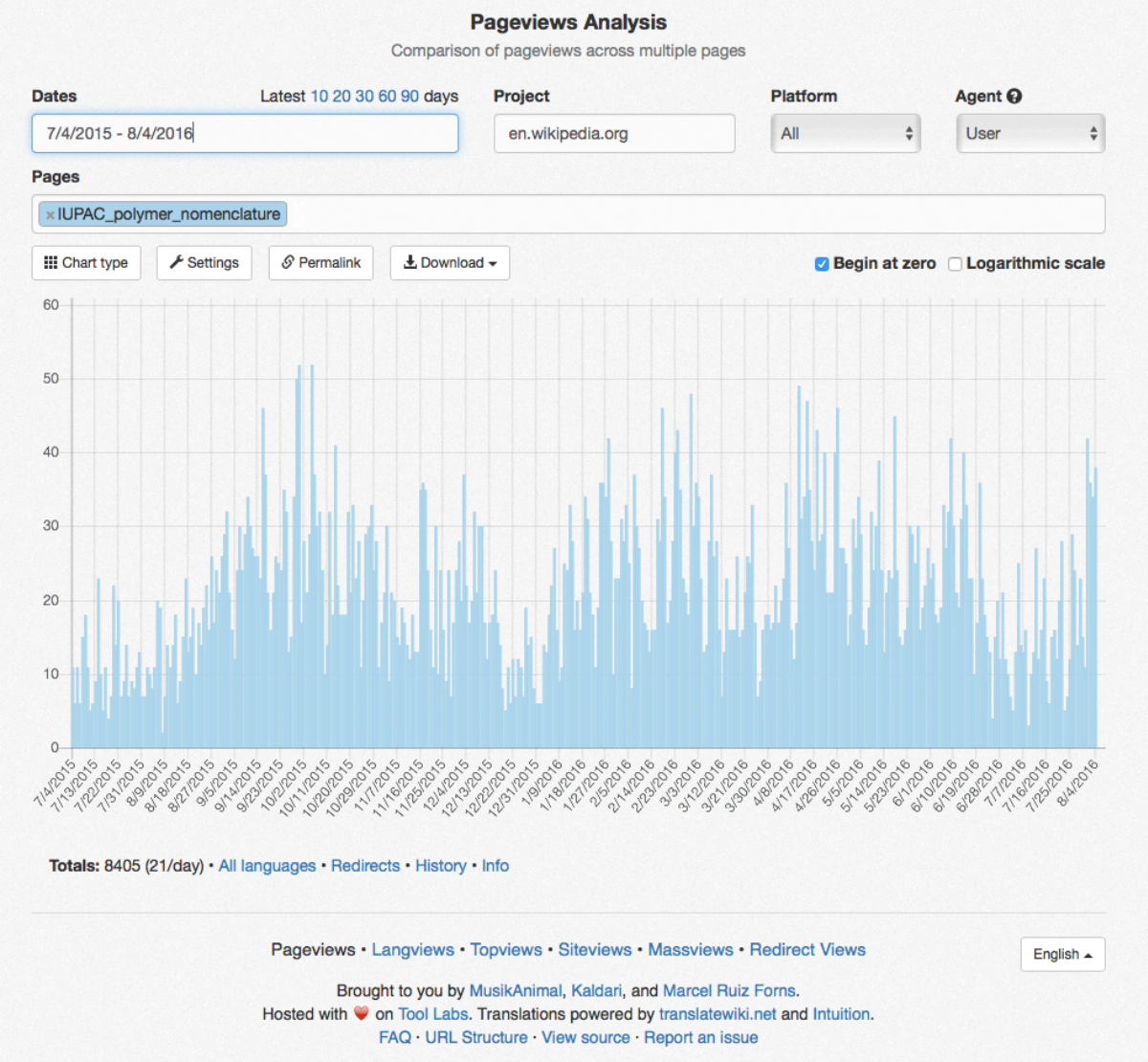

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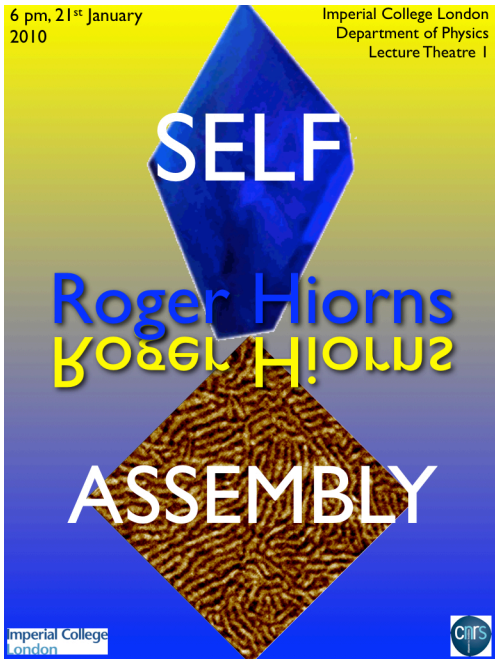

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13 'Auto-désorption/ionisation de copolymères à base de poly (3-alkylthiophène) et fullerène par MALDI-TOF', H. Preud'homme, R. C. Hiorns, C. Dargron-Lartigau, R. Lobinski, Symposium de Chimie et Biologie Analytiques, Montpellier, **2005**.

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15. 'Photovoltaïques : la révolution est lancée', Sud Ouest, 11 April 2017, Romain Bély. See http://www.sudouest.fr/2017/04/11/photovoltaiques-la-revolution-est-lancee-3356560-4344.php

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9 **'**Fullerene as a Repeat Unit in a Novel Donor-Acceptor Polymer' *Synfacts* 2010, *10*, 1127-1127, as selected by Timothy M. Swager and Stefanie A. Sydlik, published October 2010, working from article 27, 'Synthesis of Donor-Acceptor Multiblock Copolymers Incorporating Fullerene Backbone Repeat Units', R C. Hiorns, E. Cloutet, E. Ibarboure, A. Khoukh, H. Bejbouji, L. Vignau, H. Cramail, *Macromolecules*, **2010**, 43, 6033-6044.

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2 '풀러렌과 고분자의 조합: 태양 전지 응용', National Science Digital Links (NDSL), Korea, Global Trends Briefing, published 01/06/2009

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Meeting Chair, International Advisory Committees, and Conference Session Chair

IUPAC

Chair of IUPAC Subcommittee on Polymer Terminology

5 July **2018**, Cairns, Australia.
4 July **2017**, São Paulo, Brazil.
3 July **2016**, Istanbul, Turkey.
2 August **2015,** Busan, South Korea.
1 July **2014,** Chiang Mai, Thailand.

Conference Organisation Committees

International Advisory Committee Member, Kathmandu Symposia on Advanced Materials (KaSAM), Kathmandu, Nepal, October, **2018**.

International Advisory Committee Member Energy Materials Nanotechnology Meeting on Polymer (EMN), Hong Kong, China, January, **2016**.

Event Chair, Science Committee Chair, European Training School and Conference on Organic Photovoltaic Stability, Cargese, Corsica, France, June, **2015** and as Coordinator for Establis, overseer for this conference and training event (*ca* 105 people).

International Advisory Committee Member of The Seventh International Symposium on Engineering Plastics (EP'2015), Xining, Chain, August **2015**.

International Advisory Committee Member, International Conference on Green Initiatives in Science and Technology, Faridabad, India, January **2015**.

International Advisory Committee Member and **Session Chair** of Energy Materials Nanotechnology Meeting on Polymer (EMN), Orlando, Florida, January, **2015**.

Co-Chair, 6th International Summit on Organic Photovoltaic Stability (ISOS-6), Chambery, France, December **2013**.

Session Chair of DIELOR 2013, Limoges, November **2012**.

Session Chair of GFP2011 Session Chair, Pau, November **2011**

Session Chair and **Organizing Committee Member**, 3rd Aquitaine Conference on Polymers, October **2011**.

Organizing Committee Member, 2nd Aquitaine Conference on Polymers, **2009**.

Outreach

15 **‘**Le Photovoltaïque Organique : L’Energie Solaire du Futur ?’, lecture for 13-14 year olds at College Langevin Wallon, Tarnos, March 2018.

14 **‘**Le Photovoltaïque Organique : L’Energie Solaire du Futur ?’, lecture for 16-18 year olds at Lycée Théophile-Gautier, Tarbes, March 2017.

13 ‘Food-dye solar cells’, practical classes in making solar cells using items from a local supermarket, Papakura High School, Auckland, New Zealand, February 2017.

12 ESOS Solar Outreach event, June 2016, http://www.project-establis.eu/esos, Cargèse, Corsica, France.

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Scientist’s visit inspires students

By TAO LIN

Squeezing Twink, food colouring, a sponge and copper inside a plastic CD case might seem a dubious solution for saving the world.

But the unlikely combination has given Papakura High School students a glimpse into a better future.

The students, ranging from year 9s to senior physics students, enjoyed a visit from Dr Roger Hiorns, an English researcher for the French National Centre for Scientific Research.

He taught them how to make solar cells out of normal supermarket items as a science experiment with a crucial message.

“I really want them to understand solar energy and also to know it can be our future. If we carry on burning fossil fuels then we are going to run ourselves into the ground,” he says.

The experiment involved putting food colouring and iodine solution on a kitchen sponge and encasing it with a CD case that had pencil rubbed inside it.

Each case had copper wires sticking out and these were used to measure the amount of voltage generated when a light was shone on to the case.

Hiorns says his fellow researchers have taken the same experiment to a number of other countries including Germany, Spain, Russia and Poland as well as around the United Kingdom as part of a requirement of some funding received from the European Economic Committee.

He says he was “stunned” by the questions asked by Papakura High’s year 9 students, showing their appreciation of solar energy.

Papakura High School’s head of science Cheryl Mitchell says it shows a lot when that many year 9 students stay focused for that length of time.

“Forty-five year 9 students were engaged for two hours. That’s says to me they were enjoying what they were doing. That was because they could understand what they were doing,” she says.

As well as exposing the students to the possibilities of solar energy, Hiorns’ visit also served another purpose from the school’s perspective.

“They get the idea that the world is your oyster,” Mitchell says. “Education can lead to anything they want. Right now they can be anything they want to be and education can take them there. All they have to do is work at it.”

Mitchell says she’s planning to invite more science professionals to the school to give talks or teach guest classes to try and help students become inspired for their own futures.

She also plans to start up an environmental club at the school following Hiorns’ visit.

Educational visit: Researcher from the French National Centre for Scientific Research Dr Roger Hiorns taught a group of Papakura High School students how to make solar cells out of items from the supermarket to help them understand solar energy. From left: Janesh Latchman, Emily Thammavongsar, Tehinureina Karaka and Arven Gonzales. Photo: TAO LIN

10 ‘Les nouvelles cellules solaires’, Meera Stephene, Jeanne François, Roger C. Hiorns, College d’Arudy, France, December 2014.

9 ‘Les nouvelles cellules solaires’, Hasina H. Ramanitra, Alberto Gregori, Jeanne François, Roger C. Hiorns, College d’Arudy, France, Novembre 2014.

8 ‘Organic Photovoltaics’, Roger Hiorns, Lycée Jacques Monod, Pau, France, January, 2014.

7 ‘Parrain Scientifique’, Lycée Saint Cricq, Pau, 2013 to present date.

6 ‘Career Science’, Alberto Gregori, Roger Hiorns, Lycée Saint Cricq, Pau, September 2013.

5 Chair and Organiser, **‘**Platform for exchange’ A forum for Horizon 2020, future projects and employment.’ IPREM, Pau, November 2013, with *ca* 40 participants from industry and academia.

4 **‘**Bientôt des panneaux solaires en plastiques?’, Presentation and discussion, Café des Sciences, Pau, October 2012.

3 Presentation of Polymers and Solar Cells, 6ème Édition du Goûter des Sciences à la Maison Écocitoyenne de Bordeaux, 4th of June 2012. With *Les Petits Débrouaillards* presentations and

activities for 100 students from the schools A. Dupeux, Paul Doumer, Pins Francs and Ste Marie Bastide. **Videos** and photos of the activities are visible on http://www.lespetitsdebrouillardsaquitaine.org/spip.php?article459

2 'Chimie et photovoltaïque: comment sauver la planète?' Class presentation for 12-14 year olds, L'Ensemble Scolaire Pradeau-La Sède, Tarbes, France, May 2011.

1 'Plastique et photovoltaïque : comment sauver la planète?' Class presentation for 13-14 year olds, Lycée Mont de Marson, Mont de Marson, France, February 2011.

Book Translations

4 'Solid-State Physics for Electronics', A. Moliton, Wiley-ISTE (London), **2009**.

3 'Applied Electromagnetism and Materials', A. Moliton, Springer (New York), **2007**.

2 'Basic Electromagnetism and Materials', A. Moliton, Springer (New York), **2006**.

1 'Optoelectronics of Molecules and Polymers', A. Moliton, Springer (New York) **2005**.

Jury Participation

Hanwha-Total Award, and the Samsung IUPAC Young Polymer Scientist Prize
Jury member, **2018, 2016, 2014**.

PhD jurist

8 Bhushan Ramesh Patil, 'Interfacial layers and semi-transparent electrodes for large area flexible organic photovoltaics', CRPP, University of Southern Denmark, December **2017**.

7 Petru Apostol, 'Synthesis and liquid crystal and magnetic properties of 1,8,15,22-tetraalkoxy-metal(II/III)-phthalocyanines', CRPP, Université de Bordeaux 1, (***rapporteur***), September **2016**.

6 Parantap Sarkar, 'The Ceramidonine and Perkin Approaches to Aromatic Nanoribbons', CRPP, Université de Bordeaux 1, (***rapporteur***), July **2011**.

5 Aurel Diacon, 'Polymers functionalized with chromophores for applications in photovoltaics, photonics and medicine', Universitatea Politehnica di Bucuresti and Université d'Angers (***rapporteur***), September **2011**.

4 Julien Kelber, 'Cristaux liquids colonnaires donneurs et accepteurs pour cellules solaires organiques', CRPP, Université de Bordeaux 1, September **2011**.

3 H. Erothu, 'Synthesis and Photovoltaic Properties of Novel Copolymers Based on Poly(3-hexylthiophene)', ENSCBP, Institut Polytechnique de Bordeaux, France, **2011**.

2 F. Ouhib, 'Elaboration de matériaux dérivés du polythiophenes. Application aux cellules p hotovoltaïques organiques.' Université de Pau et des Pays de l'Adour, **2007**.

1 S. Lamaison, 'Effet de la microstructure sur les propriétés rhéologiques de différents polymères linéaires', Université de Pau et des Pays de l'Adour, **2002**.

Training and Research Management

Supervision of Postdoctoral and PhD Research Fellows

18 Eleftheria Batagianni**,** PhD Fellow cotutelle with UNESP, Brazil, 09/2017-08/2020. Director with Co-director Prof. Didier Bégué.

17 Edilene SILVA, Ciências sem Fronteiras PhD Fellow cotutelle with UNESP, Brazil, 4/2015-3/2016. Co-encadrant.

16 Dr. Craig COMBE, Region Aquitaine, Fullinc Postdoctoral Fellow, 12/2013-12/2014. Director 100%.

15 Dr. Harikrishna Erothu, Co-Director, in project SYNABCO, FP7-PEOPLE-IEF-SYNABCO-273316, 2011-2012, Intra-European Fellowships (IEF) post-doc, directed by Dr Paul Topham.

14 Meera STEPHEN, FP7-PEOPLE-ITN-Establis-290022, PhD Fellow, (cotutelle with Vilnius University, Lithuania), 1/2013-12/2015. Director 33%/67% with Prof. Kestutus Arlauskas. PhD completed 10/2016 with *Felicitations de Jury.*

13 Maria Luisa BRAUNGER, CAPES/COFECUB PhD Fellow (Brazil, UNESP, cotutelle), 3/2011-10/2015. Cotutelle, UNESP, Brazil. Co-encadrant. PhD completed 10/2015 with *Felicitations de Jury..*

12 Bruna BREGADIOLLI, CAPES/COFECUB PhD Fellow, (Brazil, UNESP, cotutelle with Prof. Carlos F. O. Graeff), 10/2011-9/2015. Cotutelle, UNESP, Brazil. Director 100%. PhD completed 10/2016 with *Felicitations de Jury.*

11 Hasina H. RAMANITRA, Region Aquitaine, Fullinc PhD Fellow, and in cotutelle with Prof. T. Chassé and Dr. H. Peisert of the University of Tübingen 11/2012-10/2015. Director 100%. PhD completed 12/2015 with *Magna Cum Laude Felicitations de Jury.*

10 Alberto GREGORI, FP7-PEOPLE-ITN-Establis-290022, PhD Fellow, 9/2012-8/2015. Co-encadrant.

9 Hugo SANTOS SILVA, FP7-PEOPLE-ITN-Establis-290022, PhD Fellow, 9/2012-8/2015. Director with Prof. Bégué and in cotutelle with Prof. T. Chassé and Dr. H. Peisert of the University of Tübingen. PhD completed 16/7/2015 with *Summa Cum Laude/Felicitations de Jury.*

8 Marc-Alexandre ARNAUD, ECP/EPCP, IPREM, defended October 2012, "Modelling of Intra and Inter-Macromolecular Conjugation in Polythiophenes". Co-encadrant.

7 Hussein MEDLEJ, EPCP, IPREM, UPPA, 11/2008-10/2011. "Copolymères à blocs « rigide-rigides » à base de thiophène pour l'application photovoltaïque". Co-encadrant.

6 Harikrishan EROTHU, LCPO, ENSCBP, IPB, defended February 2011, "The synthesis and characterisation of well-defined block copolymers for photovoltaic applications" Co-encadrant.

5 Farid OUHIB, defended 2008, LPCP, UPPA, "Elaboration de matériaux dérivés du polythiophène. Application aux cellules photovoltaïques organiques". Co-encadrant.

4 Adel CHAÏEB, defended 2005, LPCP, UPPA, "Synthèse et caractérisation de nouveaux dérivés du poly(*p*-phénylène vinylène) PPV". Co-encadrant.

3 Sandrine LAMAISON, defended 2002, LPCP, UPPA, "Effet de la microstructure sur les propriétés rhéologiques de différents polymères linéaires". Co-encadrant.

2 Emmanuel BEAUDOIN, defended 2001, LPCP, UPPA, Co-encadrant.

1 Emmanuel MIGNARD, defended 2001, LPCP, UPPA, "Synthese et Caractérisation de Nouveaux Copolymeres en Étoile à Coeur de Fullerène Comportant des Séquences de Poly(1,4-phenylène)". Co-encadrant.