

Dr. Julien BRAS

French nationality, Associate Professor

Born 13th of March 1978, Clamart (92). Married, 1 child

H-index=27

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EDUCATION & EMPLOYMENT

2016 Institut Universitaire Français (IUF) junior member

2011 Ability to supervise Researchers (HDR) – Grenoble INP Pagora, Grenoble, France

Since 2006 : Associate Professor ('Maître de Conférences') at Grenoble INP Pagora & LGP2, France

2004-06: Innovation manager, Ahlstrom, Crepe Paper Product line, France, Finland, Italy.

2004 PhD in renewable resources science – INRA/ENSIACET, Toulouse, France

2001 Engineer in high school of Chemistry (ENSCT, Toulouse, France)

2001 Master (DEA) in renewable resources- Toulouse University

CURRENT RESEARCH ACTIVITIES

Through his different experiences, he develops several competences in: Cellulose fibres, nanofibres and nanocrystals, cellulose derivatives, Biocomposites & Nanocomposites, Surface grafting, Barrier properties, Specialty paper & active packaging.

o **Nanocellulose** production, characterization of micro-fibrillated cellulose and cellulose nanocrystals.

o **Chemical grafting**: surface grafting of molecule in solvent, ionic liquid, aqueous system with several families of molecule or polymer and several strategies (grafting from, grafting onto, click)

o **Materials**: Polymer (nano)composites and fibrous structures : preparation & characterization, DSC, DMA, FTIR, XRD, XPS, NMR, TOFSIMS, etc..

o **Application domains**: paper and packaging industries, polymer composites, biomedical & cosmetic (controlled release)

SCIENTIFIC PRODUCTION

- o 111 journal papers with IF
- o 30 international conf.(oral),
- o 114 international conf. proceedings (poster-oral),
- o 6 chapters of books
- o 9 patents.

SUPERVISED RESEARCHERS

- o 15 post-docs
- o 20 PhD Students
- o 32 Master/Engineers students

MANAGING RESPONSABILITIES

o 2012-... In charge of the group 'Multiscale Biobased Material' of LGP2 (ab.40 pers)

o 2015-...: CS Grenoble INP elected member, CAC UGA

o 2011-15: CEVU Grenoble INP elected member

o 2014-...: Vice Chair of Cost action ActinPak, FP1407

o 2006-...: responsible for 3 European projects in Grenoble INP Pagora, 1 Marie-Curie Project, 1 COST; Coordinator of 1 FEDER

o 2010-13 Pedagogic coordinator of engineer option in Grenoble INP Pagora

o 2009-10 In charge of the research group 'Converting Biomaterial Packaging' of LGP2 (ab.20 pers)

o 2008-... LGP2 scientific committee elected member

CURRENT SCIENTIFIC ANIMATION

- o Marie Curie European project contact
- o COST action vice Chair (2015-2019)
- o WP2 leader of lab of excellence Tec21 (2012-...)
- o Scientific Committee of Carnot institute PolyNat (2013-...)
- o Polynat project coordinator (2, cerise)
- o French national agency (ANR) projects coordinator .
- o Co-chair of Tappi Nano 2016 conference

EXPERT-REVIEWING ACTIVITIES

- o Board Member (2012-2013) and Associate editor (2013-...): Industrial Crops & Product (IF=3,2), special issue editor
- o Science Advisory Board of BiMAC Sweden (2013-16)
- o Recruitment of Assistant Professors and Expert for ANR, ADEME research project or international project
- o Jury member for PhD Theses (13), HDR (2)
- o Reviewer for several journals: Cellulose (6), Journal of Colloid & Interface Science, Industrial Crops and products (8), Biomacromolecules (4), Composite Science Technology, Carbohydrate Polymers (3), Journal of material science (3), journal of material chemistry, Journal of Composites PartA (1), Bioresources (3), Journal of Applied and food chemistry, etc...

APPLIED SCIENCE PARTNERSHIP

- o Several industrial collaborations for Phds, Post-doc or master with a total of about 2700k€ budget (company examples: Ahlstrom, Arjo-wiggins, PDL, Pierre Fabre, Tetrapak, Bluestarsilicon, Cargill, etc..)
- o Several company visit or organizations for student and tutor of sandwich course engineer in company (12)
- o Scientific advisor and part of creation team of 2 start-up: Poly-ink, Inofib
- o Scientific advisor technology transfer project: Linksum: Linkroof, paintbiocell

COLLABORATIONS

At least 3 months collaborations are listed below :

- o Scientific mobility (3 months) W. Orts USDA, Albany-Berkeley, USA en 2010, 1 publication + 4 posters
- o national Collaboration: PBS Rouen, CTP Grenoble, CEA Grenoble, UMET Lille, SIMAP Grenoble, AgroParisTech Paris, CNAM Paris, INRA BIA Nantes, INRA Montpellier
- o European project and main collaborations : SCCP(it), VTT (Fi), KTH (Fi), SHU (UK), KaU (Sue), UAV (Por), Itene (Esp), ZUT (Pol), PTS (All), IVV(All), Innventia (Sue), WRC (NL),
- o Specific collaborations : Université de Girona (Esp – 2 master s), Université de SaoPaulo (Br- 2 master s + 1 post-doc), Université de Washington State (1 prof invité), Université de Rio(1 master), FPInnovation (Can- 3 master), Risoe-DTU (Dan-1 master), PFI (Nor – 2 stagiaires), Itene (Esp – 1 PhD stay), VTT (Fi – trainee), CSIC (Esp – 1 PhD stay), Aalto (Fi-1 master), Q. Univ. (Aus – 1 PhD stay, Univ Pays Basque (Esp-1 post-doc), Virginia Tec (US-3 years PhD), Univ Mac Master (CA-2years, Mitacs funding), SP-KTH (Sw-1PhD stay), Uni Milan (It-join PhD)
- EGIDE fundings : Imhotep (CNRC Egypte : 2008-2009), Samuel de Champlain (FPInnovation, Canada, 2009-2010), Imhotep (CNRC Egypte : 2012-2013).