

Dr. Julien BRAS

French nationality, Associate Professor

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

H-index=55, Total citations >13000

Grenoble INP Pagora - UGA, 241 rue de la papeterie, 38400 St Martin d'Hères, France

Email : Julien.bras@grenoble-inp.fr



EDUCATION, EMPLOYMENT & AWARD

2021-... Associate Professor at Grenoble INP Pagora & LGP2, France

2019-2021 Senior Expert and department head in institute of packaging science, Nestle research center, Lausanne, Switzerland

2006-2019 Associate Professor ('Maître de Conférences') at Grenoble INP Pagora & LGP2, France

2016-2019 Institut Universitaire Français (IUF) junior member, excellence in science in France

2017 Tappi Nanocellulose Mid Term Career International Award

2017 French "Academy of Science" Major Prize of Innovation (IMT Espoir)

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

2001 Master in renewable resources- Toulouse University

CURRENT RESEARCH ACTIVITIES

Main competences in: Cellulose fibres, nanofibres and nanocrystals, cellulose derivatives, Biocomposites & Nanocomposites, Surface grafting, Barrier properties, antimicrobial surface, Specialty paper & active packaging, biomaterial process engineering.

o **Nanocellulose** production, characterization of microfibrillated 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, silane)

o **Materials:** Polymer (nano)composites and fibrous structures: preparation & characterization, aerogel, foam,

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

SCIENTIFIC PRODUCTION

o 175 journal papers with IF

o 49 international conf.(oral), 22 invited speaker

o 150 international conf. proceedings (poster-oral),

o 13 book chapters of books

o 14 patents.

SUPERVISED RESEARCHERS

o 20 post-docs

o 29 PhD Students

o 59 Master/Engineers students

MANAGING RESPONSABILITIES

o 2021-...Responsible of International Affairs & International Master Biomaterials/Biorefinery at Grenoble INP Pagora

o 2019-21 Department Head Science & Analytical at Nestle Institute of Packaging Science

o 2017-19. Deputy Director of LGP2 (ab.90 pers)

o 2012-19 Head of the group 'Multiscale Biobased Material' of LGP2 (ab.40 pers)

o 2015-19 CS Grenoble INP elected member,

o 2015-19: CAC Univ. Grenoble Alpes elected member

o 2011-15: CEVU Grenoble INP elected member

o 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 2008-19. LGP2 scientific committee elected member

SCIENTIFIC ANIMATION

o COST action vice Chair (ActinPak, 2015-2019)

o WP2 leader of lab of excellence Tec21 (2012-19)

o Scientific Committee of Carnot institute PolyNat (2013-19) and Steering group member (2017-19)

o WP3 Leader of Glycoalps CDP Excellence Institute (IDEX) o Marie Curie European project (univ.contact, research coord 2013-2017)

o Polynat projects coordinator

o French national agency (ANR) projects coordinator (1) and main contact (2).

o Co-chair of Tappi Nano 2016 conference (320 att.), chair of subcommittee pack & paper (2015-...)

EXPERT-REVIEWING ACTIVITIES

o Board Member (2012-2013) and Associate editor (2013-...):

Industrial Crops & Product (IF=3,8), 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 Expert for Finland Academy – Biomass conversion (2017)

o Jury member for PhD Theses (10), HDR (4), International Opponent (7), International reviewer (4)

o Reviewer for several journals: Cellulose, Journal of Colloid & Interface Science, Industrial Crops and products, Biomacromolecules, Composite Science Technology, Carbohydrate Polymers, Journal of material science, journal of material chemistry, Journal of Composites PartA, Bioresources, 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 3600k€ budget (company examples: Arjo-wiggins, PDL, Pierre Fabre, Tetrapak, Bluestarsilicon, Cargill, WiPack, Owens Corning, etc..)

o Several company visit organizations for student and tutor of sandwich course engineer (16) in company

o Scientific advisor and part of creation team of 2 start-up: Poly-ink (2011-2019), Inofib (2014-2019)

o Scientific advisor for technology transfer project Linksum: CellOz, 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, INRA AgroParisTech Paris, CNAM Paris, INRA BIA Nantes, CERMAV, INRA Montpellier, CERMAV, Mines Inst. Ales, ICCMO Orsay,

o European project and main collaborations : SCCP(it), VTT (Fi), KTH (Fi), SHU (UK), KaU (Sue), UAV (Por), Itene (Sp), ZUT (Pol), PTS (All), IVV(All), Innventia (Sue), WRC (NL), BoU (It), KCPK (NTH), UniMi (It), SWU (UK), Rise (Sw)

o Specific collaborations : Université de Girona (Esp – 2 master s), Université de SaoPaulo (Br- 2 masters + 1 post-doc), Université de Wash. State (1 invited prof), University Rio (1 master), FPInnovation (Can- 3 master), Risoe-DTU (Dan-1 master), PFI (Nor – 2 masters), Itene (Esp – 1 PhD stay), VTT (Fi – trainee), CSIC (Esp – 1 PhD stay), Aalto (Fi-1 master), Q. Univ. (Aus – 1 PhD stay, Univ Basic Country (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), Aalto (STSM,Trainee – Join PhD), NTNU – Rise, Univ (Nor, join PhD), Swansea (UK, join PhD)

• EGIDE fundings: Imhotep (CNRC Egypt : 2008-2009), Samuel de Champlain (FPInnovation, Canada, 2009-2010), Imhotep (CNRC Egypt : 2012-2013).