Name: Djallel BOUZID
Rank: Professor
Department: Process Engineering
Email Address: bouzid@enp-constantine.dz, bouziddjallel@yahoo.fr
Educational Profile:

- Doctorat Science/PhD in Process Engineering, Université Claude Bernard Lyon1, Villeurbanne, France
- Master in Polymer, material and composite, Université Claude Bernard Lyon1, Villeurbanne, France
- Engineer in Pharmaceutical Engineering, Institut National des hydrocarbures et de la chimie, Boumerdes, Algeria (INHC)
-

List of Current Research Projects
PRFU: Nano-encapsulation of active molecules - Development and optimization of new processes

List of Journal Publications

1. R LATOUI, **D BOUZID**, M TAAM, E ESPINOSA-RODRIGUEZ, O BOYRON. **2025**. Comprehensive SEC and NMR Monitoring of Monomer Functionalization for Dental Composites. Macromolecular Rapid Communications, 2500217

2. N. Faghmous, **D BOUZID ,** H Ammouchi, I Alioua, B Boukellal, O Boyron.**2025**. Optimization of spray drying process conditions for producing insulin-loaded alginate/chitosan polyelectrolyte complexes, Drying Technology, V43,4, P690-704

3. R LATOUI, **D BOUZID**, PY DUGAS, E ESPINOSA, O BOYRON. **2024**. In-situ sol-gel process for the formulation of Bis-GMA/TEGDMA/silica dental nanocomposite. Polymer 313

4. R LATOUI, **D BOUZID**, MA BELHANI, O BOYRON. **2024**. Enhancing photopolymerization and modeling kinetic degradation in dental composites. Journal of Polymer Research ;V31,9, P273

5. FZ BADAOUI, NH BENMECHERI, M BOURAS, S CHERIFI, **D BOUZID. 2024.** Response Surface Methodology for Optimization of Diclofenac Sodium-loaded Gels for Sustained Release. Journal of Cosmetic Science 75, 1.

6. A. DERBALI, **D BOUZID. 2022**. Formulation and characterization of poly (Acrylic Acid)- Co-Chitosan Nanoparticles as pH-Thermo-Responsive System to Control Delivery. Journal of Basic and applied sciences. V18, P72-86

7. F. BADAOUI, **D BOUZID**. **2022**. Statistical design for formulation optimization of diclofenac sodium-loaded ethylcellulose microsponges.Research Journal of Pharmacy and Technology.V15, I 6

8. F. BADAOUI, **D BOUZID**, **2022,** Formulation and optimization of diclofenac sodium loaded ethylcellulose nanoparticles. Brazilian Journal of Pharmaceutical Sciences.V58.

9. N. Faghmous, **D BOUZID**, M Boumaza, A Touati, O Boyron, **2021** Optimization of chitosan-coated W/O/W multiple emulsion stabilized with Span 80 and Tween 80 using Box–Behnken design. Journal of Dispersion Science and Technology. V42, Issue 10, 1566-1578.

10. A. Derbali, I. Bahloul, N. Faghmous, **D Bouzid**.2019, Nanoencapsulation of insuline by alginate/chitosane matrix by ionotropic pre-gelation technique. Journal of New Technology and Materials, V93, I08

11. N. Amiar, **D. Bouzid.** T F. McKenna, 2017, Influence of the rubber content and particle morphology on the mechanical properties of hiPP , Journal of Applied Polymer Science, 133, 46.

12. Benhamada M., **Bouzid D.,** Boyron O.,Taam M, 2016, The relationship between the aging of polycarbonate characterized by SEC and the release of bisphenol A quantified by HPLC-UV. European Food Research and Technology,242,2,227-232

13. Benhamada M., **Bouzid D**., Saouli O., Boyron O, 2015, The effects of hydrothermal aging characterized by sec on the degradations kinetics of polycarbonate calculated through TGA
Chemical Engineering Transactions, 43, 1183-1188.

14. **BOUZID, D**; MCKENNA, TF; 2006, Improving impact polypropylene morphology and production: Selective poisoning of catalyst surface sites and the use of anti-static agents
Macromolecular Chemistry and Physics, 207, 13 – 19

15**. BOUZID, D**; GABORIAUD, F; MCKENNA, TF; 2006, Study and control of the distribution of elastomer in high impact polypropylene. Macromolecular Symposia, 243, 215 – 224

16. **BOUZID, D**; GABORIAUD, F; MCKENNA, TF; Atomic force microscopy as a tool to study the distribution of rubber in high impact poly (propylene) particles. Macromolecular Materials and Engineering, 2005, 290,6, 565 - 572

17. **BOUZID, D**; MCKENNA, TF; Effect of polypropylene particle size on the morphology of the high impact polypropylene particles. DECHEMA Monographs, 2004, 138, 429 – 433

18. **BOUZID, D**; MCKENNA, TF; 2004, Effect of polypropylene particle size on the morphology of the high impact polypropylene particles. Polymer Reaction Engineering, DECHEMA 52, 14

19. MCKENNA, TF; **BOUZID, D**; Matsunami, S; Sugano, T; 2003, Evolution of particle morpholgy during polymerisation of high impact polypropylene, Polymer Reaction Engineering, 11, 2, 177 - 197

List of Conference Papers

1. R,LATOUI. **D, BOUZID**, 2023, Optimization of the formulation process of a biocompatible resin using Box-Behnken design, 3rd International Conference on Engineering and Applied Natural Sciences, 14-17 January, Konya/Turkey

2. R,LATOUI. **D, BOUZID**, 2022, Caracterisation of mesoporous silica nanocapsules elaborated by Sol-Gel process, 1st International Conference on Scientific and Academic Research, 10-13 December, Konya/Turkey

3. R,LATOUI. **D, BOUZID**, 2022, Etude de la dégradation d'un composite biocompatible en utilisant l'ATG, 10ème Conférence Internationale des Energies Renouvelables, 20-22 Décembre, Hammamet, Tunisie.

4. R,LATOUI. **D, BOUZID**, 2022, Caracterisation of mesoporous silica nanocapsules elaborated by Sol-Gel process, 4th International Conference on Applied Engineering and Natural Sciences, 10-13 November, Konya/Turkey.

5. FZ, BADAOUI, **D, BOUZID**, 2021, Statistical design for formulation screening of diclofenac sodium loaded ethylcellulose nanoparticles, 2nd international symposium on materials chemistry 2021, Boumerdes, Algeria

6. FZ, BADAOUI, **D, BOUZID**, 2021, HET-CAM test for the diclofenac sodium loaded ethylcellulose nanoparticles, 1ST international conference on sustainable energy and advanced materials, Ouargla, Algeria

7. FZ, BADAOUI, **D, BOUZID**, 2021, Formulation screening of diclofenac sodium loaded ethylcellulose microsponges, Séminaire international sur les sciences de la matière (physique et chimie) Oran, Algeria

8. A, DERBALI. **D, BOUZID**, 2019, Designing nanoparticles based on alginate/chitosan as oral insulin delivery system, 2019, 2nd international symposium medicinal plants and materials, Tozeur Tunisia, 2019

9. N. Amiar, **D. Bouzid.** T F. McKenna, Simulation of the EPR flow in hiPP particle, International Conference on the Reaction Engineering of Polyolefins. 2017 Maastricht,Pays bas,6-9 Juin

10 M. Benhamada, **D. Bouzid.** Saouli O. The relationship between the aging of polycarbonate and the release of BPA. 12th International Conference on Chemical and Process Engineering, Milan, Italie 19-22 Mai **2015**

11. N. Amiar, **D. Bouzid.** T F. McKenna. Study of morphology and mechanical behaviour of iPP-EPR nanometric composite, 1st International Symposium on Nanoparticles-Nanomaterials and Applications. Lisbonne 19-22 Janvier **2014**

12. M. BEN HAMADA, **D. BOUZID,** O. SAOULI. Study of Bisphenol A migration from baby bottles as a function of temperature, pH liquids and duration treatments. International Congress on Energy Efficiency and Energy Related Materials, ENEFM. Antalya Turquie. 9-12 October 2013

13. N. Amiar**, D. BOUZID,** T F. McKenna. Influence of iPP morphology and EPR content on HiPP mechanical properties, International Conference on the Reaction Engineering of Polyolefins. Ferrara, Italie, 2-4 séptembre 2013.

14. M. BEN HAMADA, **D. BOUZID,** O. SAOULI. Influence of temperature, pH and duration treatment on the kinetic of the degradation of bisphenol A polycarbonate. International Congress on Energy Efficiency and Energy Related Materials, ENEFM. Antalya Turquie. 9-12 October 2013

15. **BOUZID, D.**, T.F.L. MCKENNA, "Study and Control of the Distribution of Elastomer in High Impact PP,"Polymer International Conference on the Reaction Engineering of the polyolefins, Montreal, Canada. 22-27 juin, 2008

16. **BOUZID, D**; GABORIAUD, F; MCKENNA, TF; Use of AFM to analyse the morphology of high impact polypropylenes. 20 -24 juin 2005, LYON FRANCE
3rd European Conference on the Reaction Engineering of Polyolefins 'ECOREP'

17. **BOUZID, D**., T.F. MCKENNA, "Effect of polypropylene particle size on the morphology of high impactpolypropylene particles," 8th International Workshop on Polymer Reaction Engineering, 4-6 October, 2004, Hamburg, Germany

18. **BOUZID, D.**, T.F. MCKENNA, "Evolution of particle morphology during the production of high impact polypropylene," Polymer Reaction Engineering V, 18-23 May 2003, Québec, Canada

19. **BOUZID, D.**, T.F. MCKENNA, "A preliminary study of the Morphology of impact copolymers," ECOREPII, 1-4 July, 2002, Lyon, France.

List of Current Doctoral Research Students Supervision

1. Yasser KESSIRA
2. Yacoub BOUDJAADA
3. Chahinaz SETTAF