



IULIAN BERLADEAN

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PROFILE

A former internship researcher with almost 1 year in the field, looking for the right company where I can apply my knowledge in the process of synthesis. Eager to expand my area of expertise (liquid crystals) with the challenges that the role will provide. Keen to apply my learned abilities in researching and presenting outcomes; skills learned during my 6 years studies as an engineer and almost 5 years as a PhD associate. Committed to challenging my passion for researching to ensure department operations run smoothly and deliver best results.

EXPERIENCE INTERSHIP IN POLYMER CHEMISTRY

"PETRU PONI" INSTITUTE OF MACROMOLECULAR CHEMISTRY | MARCH 2019 - MARCH 2020, IASI, ROMANIA.

LABORATORY OF POLYCONDENSATION AND THERMOSTABLE POLYMERS

- Managed to synthesize polyimide and azo benzenes compounds successfully with the desired properties;
- Characterized the obtained compounds through NMR spectra;
- Analyzed the results regarding the coating of LEDs, sensitive to UV light.

RESEARCH ANALYST IN PHARMA INDUSTRY

ANTIBIOTICE PHARMA COMPANY | JUNE 2024 - TO PRESENT, IASI, ROMANIA.

LABORATORY OF STERILE INJECTABLE PRODUCTS

PHD STUDENT IN RESEARCH PROJECT MAFEC "NOI MATERIALE ANTIFEROELECTRICE DE TIP BENT-CORE PE BAZA DE REZORCINOL CU POTENTIALE APLICATII ELECTRO-CALORICE"

TEHNICAL UNIVERSITY "GHEORGHE ASACHI" | JULY 2024 - TO PRESENT, IASI, ROMANIA.

EDUCATION

PHD IN CHEMISTRY, ROMANIA, 2020 TO PRESENT

PHD IN PHYSICS, FRANCE, 2020 TO PRESENT

JOINT SUPERVISION OF DOCTORAL STUDIES AGREEMENT

"George Asachi" Technical University, Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania.

The University of the Littoral Opal Coast - Molecular Materials Dynamics and Structure Unit (UDSMM), Dunkirk, France.

MASTER DEGREE IN POLYMERIC BIOMATERIALS AND BIORESOURCES, 2018 -2020

"Gheorge Asachi" Technical University, Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania.

BACHELOR IN CHEMICAL ENGINEERING, 2014 - 2018

"Gheorge Asachi" Technical University, Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania

SKILLS

Mother tongue(s): ROMANIAN

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B1	B1	B1
RUSSIAN	C1	C1	C1	C1	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

COMPUTER SKILLS

MS OFFICE
EXCEL
POWER POINT
OUTLOOK
WORD
AUTOCAD
MATLAB
MATCAD

JOB SPECIFIC TOOLS

ACDLABS NMR
CHEMOFFICE
OPEN LCA
MNOVA
ORIGINS

SOFT SKILLS

NEGOTIATION
GOOD LISTENER
ADAPTABILITY
CRITICAL THINKING
DESIRE TO LEARN
LOGICAL THINKING
PROBLEM SOLVING
EMOTIONAL
INTELLIGENCE
INTERPERSONAL SKILL

ARTICLES AND PUBLICATIONS

“MESOMORPHIC AND THERMAL BEHAVIOR OF SYMMETRIC BENT-CORE LIQUID CRYSTAL COMPOUNDS DERIVED FROM RESORCINOL AND ISOPHTHALIC ACID”, Catalina Ionica Ciobanu , Iulian Berladean, Elena-Luiza Epure, Aurel Simion, Gabriela Lisa, Yahia Boussoualem and Irina Carlescu;
Crystals, 2021, 11(10), 1215,
<https://doi.org/10.3390/cryst11101215>

“NOVEL ANTIFERROELECTRIC MATERIALS WITH RESORCINOL-BASED SYMMETRICAL FLUORINATED BENT-CORE MESOGENS”,
Iulian Berladean, Elena-Luiza Epure, Catalina Ionica Ciobanu, Irina Cârlescu*, Yahia Boussoualem, Pierre-Edouard Danjou, Vanishree Bhat Benoit Duponchel, Nicolae Hurduc and Abdelylah Daoudi; Journal of Molecular Liquids, 388, (2023), 122753,
<https://doi.org/10.1016/j.molliq.2023.122753>

“Chiral unsymmetrical bent-shaped dimers exhibiting cholesteric phases: synthesis, characterisation and liquid crystalline properties”, Iulian Berladean, Elena-Luiza Epure, Gheorghe Simion, Aurel Simion, Irina Carlescu*, Yahia Boussoualem, Benoit Duponchel, Nicolae Hurduc and Abdelylah Daoudi, Liquid Crystals, IF: 2.4, (2025), 1-10, <https://doi.org/10.1080/02678292.2025.2489434>

“Influence of fluorine lateral substitution on photoisomerization process of azobenzene bent-core liquid crystals” Iulian BERLADEAN, Irina CÂRLESCU, Yahia BOUSSOUALEM, Abdelylah DAOUDI, Nicolae HURDUC, Romanian Chemical Engineering Society Bulletin, BDI, 2024, 11, 2, 23-27, ISSN 2360-4697

“Synthesis and Characterization of Azobenzene Alkylated Mesogen with Fluorine Substituent”, Iulian Berladean, Aurel Simion, Irina Cârlescu, Nicolae Hurduc, Buletinul IPI, 2024, 70, 1, 101-105, ISSN 2537-2947, DOI: [10.5281/zenodo.11146121](https://doi.org/10.5281/zenodo.11146121).

LIST OF CONFERENCE COMMUNICATIONS

5 TH INTERNATIONAL CONFERENCE OF THE DOCTORAL SCHOOL, “GHEORGHE ASACHI” TECHNICAL UNIVERSITY, MAY 18 - 20, 2022, IASI, ROMANIA “SYNTHESIS AND LIQUID CRYSTALLINE PROPERTIES OF SOME SYMMETRIC SEVEN RINGS ISOPHTHALIC ACID DERIVATIVES WITH BENT-CORE MOLECULES” IULIAN BERLADEAN, YAHIA BOUSSOUALEM, ABDELYLAH DAOUDI, NICOLAE HURDUC, IRINA CÂRLESCU.

PÔLE MTE - JOURNÉE DES DOCTORANTS 2022 “NEW FERROELECTRIC MATERIALS WITH FLUORO-SUBSTITUTED BENT CORE MOLECULES” IULIAN BERLADEAN, YAHIA BOUSSOUALEM, ABDELYLAH DAOUDI, NICOLAE HURDUC, IRINA CÂRLESCU.

6 TH INTERNATIONAL CONFERENCE ON CHEMICAL ENGINEERING, INNOVATIVE MATERIALS AND PROCESSES FOR A SUSTAINABLE DEVELOPMENT, OCTOBER 5-7, 2022 IN IASI, ROMANIA. “NEW FERROELECTRIC MATERIAL WITH FLUORO-SUBSTITUTED BENT SHAPE MOLECULES”; IULIAN BERLADEAN, IRINA CÂRLESCU, NICOLAE HURDUC, YAHIA BOUSSOUALEM, ABDELYLAH DAOUDI.

SICHEM 2024 SYMPOSIUM OF CHEMICAL ENGINEERING AND MATERIALS FACULTY OF CHEMICAL ENGINEERING AND BIOTECHNOLOGIES, BUCHAREST, ROMANIA 11-12 APRIL, 2024. “INFLUENCE OF FLUORINE LATERAL SUBSTITUTION ON PHOTOISOMERIZATION PROCESS OF AZOBENZENE BENT-CORE LIQUID CRYSTALS” *IULIAN BERLADEAN, IRINA CÂRLESCU, YAHIA BOUSSOUALEM, ABDELYLAH DAOUDI, NICOLAE HURDUC.

23 RD ROMANIAN INTERNATIONAL CONFERENCE ON CHEMISTRY AND CHEMICAL ENGINEERING, CONSTANȚA-MAMAIA, ROMANIA 4-7 SEPTEMBER, 2024, “CHIRAL UNSYMMETRICAL BENT-SHAPED DERIVATIVES EXHIBITING NEMATIC CHOLESTERIC PHASES: SYNTHESIS, CHARACTERIZATION AND LIQUID CRYSTALLINE PROPERTIES” IULIAN BERLADEAN, ELENA-LUIZA EPURE, GHEORGHE SIMION, AUREL SIMION, IRINA CARLESCU*, YAHIA BOUSSOUALEM* , BENOIT DUPONCHEL, NICOLAE HURDUC AND ABDELYLAH DAOUDI.

7 TH INTERNATIONAL CONFERENCE OF THE DOCTORAL SCHOOL, MAY 15 - 17, 2024, IASI, ROMANIA. “SYNTHESIS AND CHARACTERISATION OF BENT CORE LIQUID CRYSTALS WITH CHOLESTERYL CHIRAL UNIT” IULIAN BERLADEAN, IRINA CARLESCU, YAHIA BOUSSOUALEM, NICOLAE HURDUC AND ABDELYLAH DAOUDI.