

Vusala IBRAHIMOVA 27 December 1985

Ph.D. Organic and Polymer Chemistry

🏠 5 rue Salvador Allende, 33400 Talence, France

☎ (+33) 641 49 77 80

✉ vusalachem@gmail.com

📄 vusu-blknd



EXPERIENCES

Postdoctoral Researcher

Laboratoire chimie des polymères organiques (LCPO), University of Bordeaux

EuroNanoMed3 project: Temperature-responsive polypeptide nanocarriers for abdominal therapies (small molecule synthesis, modification of the peptides, Drug-peptide conjugates, Drug formulation...)

📅 Since 03/2018 📍 Bordeaux, France

Chemistry Instructor

Azerbaijani-French University/Azerbaijan State Oil and Industry University (ASOIU)

📅 09/2017-03/2018 📍 Baku, Azerbaijan

Coordinator of Chemical Technology department (International Relationship and Innovation)

Azerbaijan State Oil and Industrial University (ASOIU)

📅 06/2017-07/2018 📍 Baku, Azerbaijan

Ph.D. research

Laboratoire chimie des polymères organiques (LCPO), University of Bordeaux

The synthesis and characterization of biodegradable polypeptides, polypeptide synthesis, purification and characterization, drug- polypeptide conjugates, theranostic nano-assemblies for Photodynamic Therapy...

📅 02/2013-09/2016 📍 Bordeaux, France

Ph.D. research

Institute of Condensed Matter and Nanoscience (IMCN), Bio and soft matter (BSMA), Université catholique de Louvain

The synthesis of photoactive molecules, purification and characterization, self-assembly of the polypeptide-based rod- coil like amphiphilic block copolymers and characterization...

📅 02/2013-09/2016 📍 Louvain la Neuve, Belgium.

M.Sc. Research

Bilkent University

The synthesis and characterization of the multifunctional fluorescein-based monomers, the synthesis and characterization of the conjugated copolymers, the polymer nanoparticles preparation by using host-guest interaction (cucurbituril triggered reaction) and characterization, application in ion sensing, cell imaging and optoelectronics...

📅 09/2019-02/2012 📍 Ankara, Turkey

Teaching assistant

Bilkent University

General chemistry, Analytical chemistry, Organic chemistry.

📅 2009/2011 📍 Ankara, Turkey

LANGUAGES

English	●	●	●	●	●
Turkish	●	●	●	●	●
Russian	●	●	●	○	○
French	●	●	●	○	○
German	●	●	○	○	○

SKILLS AND

QUALIFICATIONS

Organic and Polymer synthesis and functionalization, purification, characterization and application in different areas; Nanotechnology; Drug delivery, Nanomedicine...

Characterization techniques: Scanning Electron Microscopy (SEM), Transmission Electron Microscopy (TEM), Atomic Force Microscope (AFM), Differential Scanning Calorimetry (DSC), Thermal Gravimetric Analysis (TGA), UV-Visible Spectroscopy (UV-Vis), Fluorescence spectroscopy, Fourier Transform Infrared spectroscopy (FT-IR), Nuclear Magnetic Resonance (NMR), Gel Permeation Chromatography (GPC), Dynamic Light Scattering (DLS, Zetasizer Nano S), SDS-PAGE, ALV-DLS-SLS...

EDUCATION

(Cotutelle Ph.D) International Doctoral School in Functional Materials (IDS-FunMat)

Co-supervised PhD program (Cotutelle PhD with double diploma) <http://www.emmi-materials.eu/-IDS-FunMat-.html>

Thesis title: Development of Polypeptide-Based Multifunctional Nano-Assemblies for a Theranostic Approach (Partner company: Servier)

Université catholique de Louvain, *Institute of Condensed Matter and Nanoscience (IMCN), Bio and soft matter (BSMA), Louvain la Neuve, Belgium*

Supervisor: Prof. Charles-Andre Fustin

Université de Bordeaux, *Laboratoire chimie des polymères organiques (LCPO), Bordeaux, France.*

Supervisor: Prof. Sébastien Lecommandoux

📅 2012-2016 📍 Bordeaux, France 📍 Louvain la Neuve, Belgium

(MSc) Organic and Polymer Chemistry (GPA 3.43/4)

Bilkent University

Thesis title: Development of the water dispersible multifunctional conjugated polymer nanoparticles

📅 2009-2012 📍 Ankara, Turkey

Language Preparation School

Bilkent University School of English Language (BUSEL)

📅 2008-2009 📍 Ankara, Turkey

(BSc) Chemistry (GPA 77.2/100)

Baku State University

📅 2004-2008 📍 Baku, Azerbaijan

High school

School Number 48

📅 1992-2003 📍 Baku, Azerbaijan

School of Music (Piano)

School Number 30

📅 1996-2003 📍 Baku, Azerbaijan

TRAINING SCHOOLS

International Center for Materials Research Program on Nanoscale Science of Biological Interfaces program (ICMR Summer Program)

University of California Santa Barbara (UCSB)

📅 06/2010-07/2010 📍 Santa Barbara, USA

Summer School Cellular Systems

Heidelberg University

📅 08/2011 📍 Heidelberg, Germany

International Doctoral School in Functional Materials for Energy, Informational Technology and Health, Third Training School, Oral Presentation

📅 03/2013 📍 Annecy, France

International Doctoral School in Functional Materials for Energy, Informational Technology and Health, Forth Training School, Oral and Poster Presentation

📅 03/2014 📍 Spa, Belgium

International Doctoral School in Functional Materials for Energy, Informational Technology and Health, Fifth Training School, Oral and Poster Presentation

📅 03/2015 📍 Vallendar, Germany

SCHOLARSHIPS

Fonds de la Recherche Scientifique-FNRS (F.R.S.-FNRS), PhD

📅 2013-2016 📍 Louvain la Neuve, Belgium

Université catholique de Louvain, Fonds Spécial de la Recherche (FSR), PhD

📅 2012-2013 📍 Louvain la Neuve, Belgium

TUBITAK, 2215 PhD Fellowship Program for Foreign Citizens, 2012 (duration 5 years)

📅 2012 📍 Ankara, Turkey

Bilkent University, Prof. Dr. Ihsan Dogramaci's bursary 2008-2012 (the special program for Foreign Citizens)

📅 2008-2012 📍 Ankara, Turkey

CONFERENCES

3rd EuCheMS Chemistry Congress, *poster presentation*

📅 08/2010-09/2010 📍 Nurnberg, Germany

S.C.A.N. 2010 synthesis, characterization and applications of nanomaterials Workshop and School, *poster presentation*, *Bilkent University*

📅 09/2010-10/2010 📍 Ankara, Turkey

“DUAL BEAM” Workshop1 FEI Company, Bilkent UNAM and ANATEK Analytical and Research Instruments Ltd

📅 05/2010 📍 Ankara, Turkey

7th Nanoscience and Nanotechnology Conference, *Oral Presentation*, *Sabancı University*

📅 06/2011-07/2011 📍 Istanbul, Turkey

Ecole Doctorale Sciences (EDT CHIM 2012), Université Catholique de Louvain UCL, *Participant*

📅 11/2012 📍 Lovain La Neuve, Belgium

Workshops on Project Management and Risk Management

📅 03/2013 📍 Annecy, France

First IECB/GUNE Workshop, *Participant*, *IECB*

📅 04/2013 📍 Bordeaux, France

Journée EDT CHIM, Université Namur, *Participant*

📅 11/2013 📍 Namur, Belgium

Workshops on Scientific Communication and Project/Risk Management

📅 03/2014 📍 Spa, Belgium

BPG ANNUAL MEETING 2014, *Poster presentation*

📅 05/2014 📍 Ghent, Belgium

PhD Students' day 2014, *Poster presentation*

📅 07/2014 📍 Lovain La Neuve, Belgium

Workshops on Entrepreneurship and Project/Risk Management

📅 03/2015 📍 Vallendar, Germany

Supramolecular Photochemistry Faraday Discussion, *Poster presentation*, *Downing College*

📅 09/2015 📍 Cambridge, United Kingdom

Annual Meeting of the Belgian Polymer Group BPG, *Oral presentation*

📅 05/2016 📍 Hasselt, Belgium

MACRO2016, 46th IUPAC World Polymer Congress, *Oral presentation*

📅 07/2016 📍 Istanbul, Turkey

5th annual meeting of the French Society of Nanomedicine **SFNano2018**, *Poster presentation*

📅 12/2018 📍 Montpellier, France

CERTIFICATES

First aider, Ankara İl Sağlık Müdürlüğü (2010-2012)

📅 2010-2012 📍 Ankara, Turkey

Writing in the Sciences, Stanford ONLINE, Stanford University

📅 2015

PUBLICATIONS

Beril Baykal, Vusala Ibrahimova, Gizem Er, Erman Bengu and Donus Tuncel, Dispersion of multi-walled carbon nanotubes in an aqueous medium by water-dispersible conjugated polymer nanoparticles, **Chemical Communications** **2010**, 46, 6762.

Eun-Ju Park, Talha Erdem, Vusala Ibrahimova, Sedat Nizamoglu, Hilmi V. Demir, and Dönüş Tuncel, White-Emitting Conjugated Polymer Nanoparticles with Cross-Linked Shell for Mechanical Stability and Controllable Photometric Properties in Color-Conversion LED Applications, **ACS NANO**, **2011**, 5(4), 2483

Vusala Ibrahimova, Seyma Ekiz, Ozlem Gezici and Donus Tuncel, Facile synthesis of cross-linked patchy fluorescent conjugated polymer nanoparticles by click reactions, **Polymer Chemistry** **2011**, 2, 2818

Vusala Ibrahimova, Meliha Eda Kocak, Ahmet M. Onal, Donus Tuncel, Optical and Electronic Properties of Fluorene-Based Copolymers and Their Sensory Applications, **PART A: Polymer Chemistry** **2012**, 51(4), 815

Talha Erdem, Vusala Ibrahimova, Dae-Woo Jeon, In-Hwan Lee, Dönüş Tuncel, Hilmi Volkan Demir, Morphology-Dependent Energy Transfer of Polyfluorene Nanoparticles Decorating InGaN/GaN Quantum-Well Nanopillars, **The Journal of Physical Chemistry C** **2013**, 117(36), 18613

Burak Guzelturk, Pedro Ludwig Hernandez Martinez, Vijay Kumar Sharma, Yasemin Coskun, Vusala Ibrahimova, Donus Tuncel, Alexander O. Govorov, Xiaowei Sun, Qihua Xiong, Hilmi Volkan Demir, Study of Exciton Transfer in Dense Quantum Dot Nanocomposites, **Nanoscale** **2014**, 6(19), 11387

Vusala Ibrahimova, Sergey Denisov, Kevin Vanvarenberg, Peter Verwilst, Véronique Préat, Jean-Michel Guigner, Nathan D. McClenaghan, Sébastien Lecommandoux and Charles-Andre Fustin, Photosensitizer Localization in Amphiphilic Block Copolymers Controls Photodynamic Therapy Efficacy, **Nanoscale** **2017**, 9, 11180-11186

Hang Zhao, Vusala Ibrahimova, Elisabeth Garanger, Sébastien Lecommandoux, Dynamic Spatial Formation and Distribution of Intrinsically Disordered Protein Droplets in Macromolecularly Crowded Protocells, **Angew. Chem** **2020**