

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s)

Kledi Xhaxhiu

Address(es)

Fakulteti i Shkencave Natyrore, Blv. "Zog I", 1001 Tirana, Albania

E-mail

kledi.xhaxhiu@unitir.edu.al

Nationality

Albanian

Date of birth

20.08.1977

Gender

Male

Present occupation

LECTURER AND RESEARCHER

Work experience

Dates

06.03.2006 onwards

Occupation or position held

Lecturer & researcher in the Department of Chemistry, Faculty of Natural Sciences, University of Tirana.

Main activities and responsibilities Preparation of lectures, seminaries and practical courses of Colloid Chemistry, Crystallography and Molecular Spectroscopy for the students of Chemistry branch.

Preparation of lectures, seminaries and practical courses of Colloid Chemistry for the students of

Food Chemistry branch.

Preparation of practical courses of Physical & Colloid Chemistry for the students of Pharmacy

branch.

Name and address of employer

Fakulteti i Shkencave Natyrore, Blv. "Zog I", 1001, Tirana, Albania

Type of business or sector

High education

Dates

10.2007 - 02.2008, 10.2009 - 02.2010

Occupation or position held

Invited lecturer in the Department of Civil Engineering, Faculty of Civil Engineering and Architecture, Epoka University (private English speaking university in Tirana).

Main activities and

Preparation of lectures and seminaries of General Chemistry for the students of Civil Engineering branch.

responsibilities

Epoka University, Rruga e Durrësit, 1001, Tirana, Albania

Type of business or sector

Name and address of employer

High education

Dates

10.2007 - 02.2008, 10.2008 - 02.2009

Occupation or position held

Invited lecturer in the Department of Pharmacy, Faculty of Medicinal Sciences, Kristal University (private university in Tirana).

IJENS-RPG [IJENS Researchers Promotion Group]

ID: IJENS-1022-Kledi

Main activities and responsibilities Preparation of lectures, seminaries and practical courses of Physical and Colloid Chemistry for the students of Pharmacy branch.

Name and address of employer

Universiteti Kristal, Autostrada Tiranë-Durrës km. 3-të, Tirana, Albania

Type of business or sector

High education

Education and training

Dates

09.1996 - 02.2002

Title of qualification awarded

Chemist (GPA 9.7/10)

Principal subjects/occupational skills covered Diploma work and thesis in the Department of Analytical Chemistry, Faculty of Chemistry-Biology, University of Siegen, Germany (Title: Extraction of orange peel essential oil with SFE (supercrititcal fluid extraction); USE (ultrasonic extraction) and Soxhlet extraction). Under the

supervision of Prof. Dr. rer. nat. B. Wenclawiak.

Name and type of organisation providing education and training

9 Semesters completed in the Faculty of Natural Sciences, University of Tirana (Albania), 1 Semester (Diploma work) in the Department of Chemistry, University of Siegen (Germany)

Level in national or international classification ISCED 5B

Dates

19.01 - 28.02.2004

Title of qualification awarded

Internship Certificate

Principal subjects/occupational

skills covered

Internship at the Incorporated Company BASF A.G., Ludwigshafen, Germany, in the Session for Intermediate Product Research (Elaborated topics: Production of Precursor-solutions for doped Barium Titanate; Thermolysis and production of samples for analytical investigations; Optimisation of the electrical properties of Barium Titanate).

Name and type of organisation providing education and training Incorporated Company BASF A.G., Ludwigshafen, Germany

Level in national or international classification

Internship

Dates

03.2002 - 11.2005

Title of qualification awarded

Dr. rer. nat. (Evaluation: "excellent" for the disputation; "excellent" for the dissertation)

Principal subjects/occupational skills covered PhD-thesis in the department of Inorganic Chemistry, University of Siegen (Title: The use of supercritical carbon dioxide in Solid State Chemistry and basic structural investigations with chalcogenide halides of the third main group). Under the supervision of Prof. Dr. H. -J. Deiseroth.

e-dissertation

http://www.ub.uni-siegen.de/epub/diss/xhaxhiu.htm

Name and type of organisation providing education and training Department of Chemistry, University of Siegen (Germany)

Level in national or international classification

ISCED 6

01.10.2011 - 31.12.2011 Dates

Principal subjects/occupational skills covered

Implementation of the DAAD (Deutsche Akademischer Austausch Dienst) supported scientific research on: "The investigation of structure-property relationship of the recently synthesised chalcogenide halides of the 3rd main group elements with regard to photovoltaic and thermoelectric efficiency".

Name and type of organisation providing education and training

Institute of Mineralogy, Crystallography and Material Science, University of Leipzig (Germany)

Dates

25.06.2012 - 08.07.2012

Principal subjects/occupational skills covered

Participation and presentation in the 2nd International Workshop on Cleanroom Training for Critical and Sustainable Technologies. A collaborative initiative between UNIDO and UNAM – İhsan Doğramacı Bilkent University. Supported by the Turkish Ministry of Science, Industry & Technology, Turkish International Cooperation and Coordination Agency, Turkish Ministry of Development.

Name and type of organisation providing education and training

National Excellent Centre in Nanotechnology, UNAM- Ankara, Turkey

Dates

23.10.2012 - 25.10.2012

Principal subjects/occupational skills covered

Train the New Trainers (TrainMIC). Training programme on the use of metrology in Chemistry.

Name and type of organisation providing education and training

Institute for Reference Materials and Measurements (IRMM), Geel, Belgium

Academic Qualifications

Dates

29.09.2010

The Professors Council of the Faculty of Natural Sciences, University of Tirana awards the academic title "**DOCENT**" in accordance to the fulfilment of the requirements by the Law of High Education, No. 9832 (12.11.2007), in the Republic of Albania.

Dates

04.05.2012

The Professors Council of the Faculty of Natural Sciences, University of Tirana awards the academic title "Associate Professor" in accordance to the fulfilment of the requirements by the Law of High Education, No. 9832 (12.11.2007), in the Republic of Albania.

Personal skills and competences

Mother tongue(s)

Albanian

Other language(s)
Self-assessment
European level (*)

English German Italian

French

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
Basic user	Basic user	Basic user	Basic user	Basic user

Social skills and competences

Excellent social skills as a result of a long period of international team working and teaching in several universities in Albania. Easy adaptable to multicultural environments and to working in multi-language, multicultural and international environments as a consequence of 4 years of study and research in Germany as well as due to the co-working with people of different backgrounds and proveniences during the internship in BASF-company (Ludwigshafen, Germany), and the co-research in Aristotle University (Thessaloniki, Greece). Good communication and presentation skills gained during the undergraduate and graduate level courses as well as the participations in diverse international and national symposia and conferences. My personality is characterised by an enhanced sense of responsibility toward the relationships with others and an enthusiastic team spirit concerning the implementation of works in group.

Organisational skills and competences

Natural leadership and organisational skills cultivated over years and demonstrated by the supervision of practical work with students, orientation of diploma and master thesis, preparation and implementation of undergraduate and graduate courses for various disciplines as well as organisation of research and social activities in the Faculty of Natural Sciences.

Technical skills and competences

During the diploma and PhD thesis performed in the Department of Chemistry (Analytical and Inorganic), University of Siegen, Germany I gained a lot of experience concerning the sample preparation (for gas, liquid supercritical (Suprex prepmaster fluid extraction system) and solid materials) and analysing instrumentation (GC-FID/MS, Powder and Single Crystal X-ray diffractometry (RT and HT), DSC, DTA,TG, IR, Raman, Gas and Hg Porosimetry, etc. An innovative task demanded for the implementation of a part of the PhD thesis was the designation of two types of stainless steel batch reactors acting as contra-pressure agent holder for the purpose of the synthesis of inorganic species in supercritical CO_2 (at high pressures and temperatures) running in sealed quartz ampoules inside them. Despite the experience in solid state and hydrothermal synthetisation techniques, the sample preparation through sol-gel technique and its programmed decomposition in controlled atmosphere learned and implemented in the inorganic laboratory BASF A. G., enriched further my know-how in this field.

Computer skills and competences

- Good command of Operating Systems: MS Windows 95, 98, 2000, XP, 7
- Very good command of Microsoft Office tools (Word, Excel and PowerPoint)
- Good command of most of the standard and special Windows software packages concerning data acquisition and processing for structure solution and refinement (WinGX, Shelxs, Shelxl, X-prep, X-red, Stoe, Fullprof), TA-WIN (Linseis software package)
- Good command of structure and graphic design software: Diamond v. 2, 3, Corel Draw v. 7, 8, 11, 12
- Good command of data analysis and graphing software: Origin v. 6, 7
- Good command of graph design and editing software: Adobe Photoshop, Corel Photo-Paint, Ulead® Photo Impact
- Some experience with technical Computing Software: Mathematica 4.2
- Basic knowledge of Matlab environment and programming language

Hobbies and sports

Handicraft construction of mechanical structures and objects needed for several practical purposes, reparation of mechanical and various electrical objects as well as old car engines Swimming, chess playing.

Driving licence

Category B

Publications

L. Kienle, O. Oeckler, H. Mattausch, V. Duppel, A. Simon, C. Reiner, M. Schlosser, K. Xhaxhiu, H.-J. Deiseroth, (2003) "Real structure of partially ordered crystals", *Materials Science in Semiconductor Processing*, *6*, 393-396.

H.-J. Deiseroth, C. Reiner, K. Xhaxhiu, M. Schlosser, L. Kienle, (**2004**) "X-Ray and Transmission Electron Microscopy Investigations of the New Solids In₅S₅Cl, In₅S₅El, In₅S₅Er and In₅Se₅Er" *Zeitschrift für Anorganische und Allgemeine Chemie*, **630**, **2319-2328**.

X. Jiang, H.-J. Deiseroth, C. Gu, K. Xhaxhiu, Y. Huang, J. Li, (2008) "Electrical conductivity of mixed Valence $TIIn_4S_5CI$ quaternary compound micro- and nanowires", *Nanotechnology*, 19(20), 205702 (5pp).

V. Nickel, C. Reiner, M. Schlosser, H.J. Deiseroth, L. Kienle, K. Xhaxhiu, (**2008**) "The New Crystalline Mixed Valent Solids TlIn₄Se₅X (X: Cl, Br) and TlIn₄Se₅Cl: Structure and Nanoscopic Defects Investigated by Combined Application of X-ray and HRTEM Studies", *Zeitschrift für Anorganische und Allgemeine Chemie*, **634**, **2209-2216**.

K. Xhaxhiu, A. Korpa, B. Seiti, A. Memo, (2011) A Review of Solid Inorganic Photovoltaics and Thermoelelctrics. *Albanian Journal of Natural and Technical Sciences*, 30(1), 39-65.

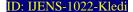
A. Korpa, K. Xhaxhiu, A. Mele, K. Dule, (2011) Turning waste into highly valuable material; clinker-free cements based on chemical activation of granulated blast furnace slag. *Albanian Journal of Natural and Technical Sciences*, 30(1), 91-109.

- K. Xhaxhiu, A. Mele, A. Memo, B. Seiti, T. Kota, K. Dule, (2012) A New Way of Syntheses of Rubidium- and Cesium Triiodides in Supercritical Carbon Dioxide. *Asian Journal of Chemistry*, 24(9) 3879-3883.
- K. Xhaxhiu, A. Çomo, T. Kota, Synthesis of Inorganic Species in Supercritical CO₂. (2012) How feasible are they?, *Journal of Environmental Protection Ecology*, 13(1) 144-154.
- K. Xhaxhiu, R. Terziu, A. Mele, E. Troja, T. Kota, (2012) Characterisation of steam-extraction progress of some medicinal plants based on the evolution of physical-chemical parameters of their hydrolates. *Fresenius Environmental Bulletin*, 21(10a) 3108-30113.
- B. Seiti, D. Topi, A. Korpa, A. Lame, K. Xhaxhiu, I. Beqiraj, (2012) Phenolic content of the Effluents from the petroleum industry in Albania. *Oxidation Communications*, 35(3) 742-750.
- K. Xhaxhiu, Mele, A. Korpa, B. Seiti, S. Abazi, A. Memo, T. Kota, K. Dule, (2012) Sequestration of CO₂ in supercritical state by mercury oxide. *Chemical Papers* (submitted).
- K. Xhaxhiu, A. Mele, A. Korpa, B. Seiti, K. Dule, T. Kota, (**2012**) A Self made lab-scale system for syntheses in supercritical CO₂. *Brasilian Journal of Chemistry* (**submitted**).

Conference contributions

- K. Xhaxhiu, A. Çomo, T. Kota, Synthesis of Inorganic Species in Supercritical CO₂. (2009) How feasible are they?, *Proceedings of The International Conference of BENA "Pollution Management and Environmental Protection"*. Tirana, September 16-20, (published in *JEPE 13(1)* 144-154).
- K. Xhaxhiu, R. Terziu, A. Mele, E. Troja, T. Kota, (2011) Characterisation of steam-extraction progress of some medicinal plants based on the evolution of physical-chemical parameters of their hydrolates. *Proceedings of the 16th International Symposium on Environmental Pollution and Its Impact on Life in the Mediterranean Region*. Ioannina, September 24-27, (published in: *FEB 21(10a)* 3108-30113 (2012)).
- K. Xhaxhiu, Mele, A. Korpa, B. Seiti, S. Abazi, A. Memo, T. Kota, K. Dule, (2011) Sequestration of CO₂ in supercritical state by mercury oxide. *Proceedings of VIth Dubrovnik Conference on Sustainable Development of Energy, Water and Environment Systems*. September 25-29, Dubrovnik, pp 400.
- S. Abazi, K. Xhaxhiu, H. Fico, (2011) Analysis and Identification of Organic Compounds Contained in the Waste Waters Produced from the Steam Distillation Industry in Albania. *Proceedings of VIth Dubrovnik Conference on Sustainable Development of Energy, Water and Environment Systems*. September 25-29, Dubrovnik, pp 474.
- B. Seiti, K. Xhaxhiu, D. Topi, A. Mele, A. Memo, A. Malja (2011) Evaluation of Some Characteristics of the Crude Oil Light Products Originating from the Main Oil Wells in Albania. *Proceedings of VIth Dubrovnik Conference on Sustainable Development of Energy, Water and Environment Systems*. September 25-29, Dubrovnik, pp 396.
- K. Xhaxhiu, A. Korpa, B. Seiti, (2011) Some structural aspects of mixed valence solid inorganics containing indium. *Proceeding of the National Conference*: "Chemistry and the Actual Country Development". Academy of Sciences, Tirana, 20 October, pp 286-298. (in albanian).
- A. Korpa, A. Mele. K. Xhaxhiu, (2011) On the structure, obtained phases and the hydropuzolanic reaction progress of the ultra high performace materials containing cement compared to the common ones. *Proceeding of the National Conference*: "Chemistry and the Actual Country Development". Academy of Sciences, Tirana, 20 October, pp 90-106. (in albanian).
- A. Mele, A. Mele, A. Korpa, K. Xhaxhiu (2011) Chemical-phyical changes of Na-montmorillonite clays after acid activation. *Proceeding of the National Conference*: "Chemistry and the Actual Country Development". Academy of Sciences, Tirana, 20 October, pp 26-34. (in albanian).

- B. Seiti, D. Papaj, D. Topi, K. Xhaxhiu, M. Prifti, (2011) Evaluation of protection efficiency of imidazolium chloride on coal containing steel in HCl environment. *Proceeding of the National Conference*: Chemistry and the actual country development. Academy of Sciences, Tirana, 20 October, pp. 16-25. (in albanian).
- K. Xhaxhiu, E. Keçi, A. Korpa, E. Spahiu, T. Kota, (2011) A study on the rate of the inhibition effect of six essential oils upon two bacterial colonies (*Staphylococcus aureus* and *Escherichia coli*). *Proceedings of the International Conference*: "Biotechnological Developments". Tirana, 20-21 November, pp 330 337.
- E. Keçi, K. Xhaxhiu, A. Korpa, E. Spahiu, T. Kota, **(2011)** A study of the inhibitory effect of six essential oils toward *Candida albicans*. *Proceedings of the International Conference*: "Biotechnological Developments". Tirana, 20-21 November, pp 180 -186.
- B. Seiti, I. Malollari, D. Topi, A. Memo, K. Xhaxhiu, (**2011**) The application of biological and physical-chemical methods for the treatment of petrol polluted mud and soil in Albania. *Proceedings of the International Conference*: "Biotechnological Developments". Tirana, 20-21 November, pp 195 -202.
- A. Korpa, K. Xhaxhiu, (2011) Sustainable Construction Materials from Clinker Free Cements Based on Chemically Activated Ground Granulated Blast Furnace Slags. *FRAY INTERNATIONAL SYMPOSIUM*: Materials Recycling, Silicon For Photovoltaic Cells And Boron & Borates. Cancun, 27 November 01 December, Vol. 4, pp 353.
- K. Xhaxhiu, K. Bente, M. Lorenz, (2012) Ternary and quaternary mixed valence compounds with interesting electrical properties. *Proceedings of the 20th Annual Meeting of the German Crystallographic Society* (DGK). Munich, 12-15 March, pp 120.
- K. Xhaxhiu, E. Keçi, A. Korpa, B. Seiti, (2012) A study of the Inhibitory Effect of Six Essential Oils toward *Klebsiella Pneumoniae*. *Proceedings of the 5th International Conference on Water, Climate and Environment "BALWOIS"*. Ohrid, 28 May, 2 June, pp 1-7.
- K. Xhaxhiu, A. Korpa, A. Mele, A. Memo, T. Kota, I. Beqiraj, (2012) A Comparison of Supercritical CO₂ and Ultrasonic Extraction of Orange Peel Essential Oil using Lab-scale Apparatuses. *Proceedings of the 5th International Conference on Water, Climate and Environment "BALWOIS"*. Ohrid, 28 May, 2 June, pp 1-9.
- A. Korpa, K. Xhaxhiu, A. Mele, B Seiti, E. Spahiu, (2012) High Volume Fly Ash Cement an Economical Approach for Reducing the Pollution Impact of the Thermal Power Plant Byproducts in the Ohrid Area. *Proceedings of the 5th International Conference on Water, Climate and Environment "BALWOIS"*. Ohrid, 28 May, 2 June, pp 1-12.
- A. Korpa, B Seiti, A. Mele, K. Xhaxhiu, E. Spahiu, (2012) Efficient Ways of Industrial Waste Processing into High Value added Products that Combine Energy Recovery with Sustainable Development and Environmental Protection. *Proceedings of the 5th International Conference on Water, Climate and Environment "BALWOIS"*. Ohrid, 28 May, 2 June, pp 1-15.
- B. Seiti, A. Korpa, D. Topi, K. Xhaxhiu, E. Spahiu, F. Shehu, (2012) Evaluation of Possibilities and Deposition Capacities of CO₂ in Exploited Natural Gas Reservoirs, Albania. *Proceedings of the 5th International Conference on Water, Climate and Environment "BALWOIS"*. Ohrid, 28 May, 2 June, pp 1-10.
- K. Xhaxhiu, A. Korpa, A. Mele, T. Kota, K. Dule, (2012) Ultrasonic extraction characteristics of the albanian "moro" orange-peel cultivars. *Proceedings of the International Conference of Ecosystems* (*ICE*), Tirana, 1-6 June, pp 1-7.
- K. Xhaxhiu, A. Korpa, A. Mele, B. Seiti, T. Kota, K. Dule, (2012) A comparison of ultrasonic and soxhlet extraction of the orange peel from "Moro" cultivars grown in Albania. *Proceedings of the International Conference of Ecosystems (ICE)*, Tirana, 1-6 June, pp 1-8.
- A. Korpa, K. Xhaxhiu, A. Mele, E. Spahiu, (2012) Development of "Green" cement for sustainable concrete using metallurgical waste. *Proceedings of the International Conference of Ecosystems* (*ICE*), Tirana, 1-6 June, pp 1-10.
- A. Korpa, K. Xhaxhiu, A. Mele, E. Spahiu, E. Halimi, (2012) Contributing to ecosystem conservation via utilization of beneficiated high carbon fly ash for greener cement production. *Proceedings of the International Conference of Ecosystems (ICE)*, Tirana, 1-6 June, pp 1-10.



A. Mele, B. Murtaj, K. Xhaxhiu, A. Korpa, E. Tako, (2012) The surface characterisation of activated carbon and acid activated Montmorillonite clay. *Proceedings of the International Conference of Ecosystems (ICE)*, Tirana, 1-6 June, pp 749-752.

A. Mele, M. Çipa, K. Taraj, K. Xhaxhiu, E. Tako, (2012) Surface changes of bentonite clays after the modification with H₂SO₄ and Nitrogen organic cations. *Proceedings of the International Conference of Ecosystems (ICE)*, Tirana, 1-6 June, pp 753-756.

B. Seiti, A. Korpa, D. Topi, K. Xhaxhiu, I. Beqiraj, (2012) Diversification of the Energetic Resources and the Utilisation of Biodiesel in Albania. *Proceedings of the International Conference of Ecosystems (ICE)*, Tirana, 1-6 June, pp 559-564.

K. Xhaxhiu, A. Korpa, H. -J. Deiseroth, R. Schmidt-Grund, M. Lorenz, K. Bente, (2012) The influence of targeted substitutions on physical properties of ternary mixed valence indium-chalcogenide-halides. *Proceedings of the 18th International Conference on Ternary and Multinary Compounds (ICTMC)*, Salzburg, 27-31 August, pp 121.

K. Xhaxhiu, H.-J. Deiseroth, R. Schmidt-Grund, K. Bente, (2012) Tuning of the Physical Properties in Mixed Valence Inorganic Solids by Oriented Cationic and Anionic Substitutions. *Beiträge der 16. Vortragstagung: Materialchemie für Energie- und Ressourcennutzung*, Darmstadt, 17-19 September. (published in: Zeitschrift für Anorganische und Allgemeine Chemie 638 (10) pp 1640).

Professional Affiliations

since 04.1998 Member of the Albanian Chemists Association (ShKSh)
2003 - 2006 Member of the German Chemists Association (GDCh)

Annexes

More info regarding my academic aspect: http://unitir.academia.edu/KlediXhaxhiu