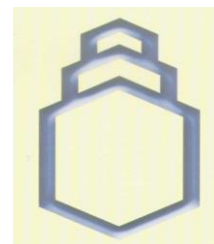


Europass
Curriculum Vitae



Personal information

First name(s) / Surname(s) **Vladimir Stoyanov KOZHUKHAROV** Prof. DSc. Ph.D. Eng.,
Address(es) Krichim str. 43 "A", Sofia -1164, Bulgaria (BG)
Telephone(s) + 359 8627076 Mobile: +359 898729829
E-mail viko@uctm.edu ; vi_ko@abv.bg
Nationality Bulgarian
Date of birth 20 October 1942
Gender Male

Occupational field **Professor at University of Chemical Technology and Metallurgy (UCTM)**

Work experience

2005-at present, Full Professor (Chemistry) Cert.,23215/26.08.2005,UCTM-Sofia
2004-at present, Doctor of Chem. Sci., Cert., 29114/ 07.06.2004, UCTM-Sofia;
1995-2005, Second attain academic rank Assoc. Prof., Cert.17364/1995, UCTM-Sofia.
1986 -1995, First attain academic rank, Assoc. Prof. Cert. Research, Cert. 9891/ 1987, UCTM-Sofia.
1970-1973, Ph.D., Diploma 3940/ 1973, High Institute of Chemical Technology-Sofia

Education and training

06.2005, Grant Swiss Federeal Institute of Technology (ETH Zurich) Switzerland, Prof. L. Gauckler
06- 07.2001, JSPS fellowship, TOHOKU Univ.,Sendai (Prof.T.Sato)& AIST,Tsukuba, (Prof.H.Yokokawa);
05-06.1996, TEMPUS, IMG-BG-2021-95, University Patras, Greece, Prof. C. Vagenas
11.1990 - 02.1991, DAAD Specialisation, Univ. Clausthal- Zellerfeld, Germany, Prof. G. Frischart.
05-08.1978, DAAD Specialisation, Univ. Erlangen- Nurnberg, Germany, Prof. DSc. Dr. H. Oel
1975-1976, English Language Course, Cert. 4448/1976, Institute Foreign Students-Sofia.
03.1970-10.1973, Chem. Eng., and Ph.D. student in Dept. Silicate Tech., Higher Institute Chem. Techn.
1963-1968, M. Sc, Dipl. Chem. Eng., High Institute of Chemical Technology-Sofia

**Personal skills and
competences**

05.2009 – at present, Head of the Office 'National and international projects and programs", UCTM
10.2007 – at present, Head of Laboratory of Advanced Materials Research (LAMAR),UCTM
01.1986- 10.2007, UCTM , teaching Undergraduate and Graduate levels – B. Sc., M. Sc.&Ph.D courses.
02.1989-0.51991, Head of Central Res. Lab. 'Geochemistry'-8 sub-Labs, Univ. Mining&Geology- Sofia,
10. 1973-01.1986, Scientific Collaborator and Dr. Technical. Science in Dept. Silicate Technology, UCTM
01.1969- 04.1970, enterprise 'STIND', Chem. Eng. and Head of Section in Glass Industry.

Competence

Physical Chemistry of Silicates and new Materials; Phase analysis, equilibrium and diagrams investigation. Advanced amorphous materials (synthesis, properties and structure); Lasers beam materials processing, thin films synthesis, modification, treatment and aging; Processing from liquid phase and sol-gel route; New effects (self-healing, self-assembling and etc.) in the materials(inorganic, organic, hybrid), surface topology and structure; Submicronscale and Nanoscale materials; Preparation, properties and structure investigations of special ceramic materials; Advanced methods of characterizations; Processing of ceramic materials including pigments, frits, high temperature catalysts, thin films (incl. PV and OPV), intercalated compounds and etc.; Development and characterization of ceramic membranes and materials for SOFC devices and energy conversion; High temperature methods of materials (including non-oxide) synthesis; Advanced methods of synthesis, including "soft chemistry", atom-ion and molecular structural interaction, intercalation as well as 2D- and 3D- morphology of the materials, RES and solar cells, Corrosion protection, aging etc.

Mother tongue(s)

Bulgarian

Other language(s)

Self-assessment

European level (*)

English

Russian

German

Japanese

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	free	C2	free	B1	separately	B2	separately	C2	free
C1	free	C2	free	B1	separately	A2	basic	B1	separately
A2	basic	A2	basic	A1	basic	A1	basic	A1	basic
-	-	A1	By dictionary	A1	basic	A1	basic	A1	By dictionary

(*) Common European Framework of Reference for Languages

Social skills and competences

International Teaching and Social Activities, as lectures presentations in International courses:

- 1992, Spain- Univ. de la Laguna-Tenerife Summer Course YALZA' 92,;
- July 1996, Greece- University of Patras,;
- 1994, EC Edu. Program COMETT II , University Jaume I, Castellon, Spain;
- 09,1994, UNESCO code:331203, University Jaume I, Castellon, Spain;
- 2004- EC Summer School FORTH-ICE/HT, University of Patras, Greece;
- 2006- EC Summer School, FORTH-ICE/HT, Lemnos, Greece
- 09,2007 EC 4th Real-SOFC Summer School, St.St.Constantine and Elena, Varna, Bulgaria
- 2008, 2009,2010,2011, Org. RES Labs, of T.E.I. Patras , Greece, EC, ERASMUS office, as well as in United kingdom, Russia, Egypt, Qatar, Germany, Israel, Belgium, Iran, Czech, Slovenia, Romania, Poland, China, Italy, France, Nederland, Switzerland, Portugal, and etc.
- Adaptive work in a team, good cooperative study and research on Regional (Balkan), European and Intercontinental (mainly Asia and Africa) levels.

Organisational skills and competences

Leadership (currently responsible for a team from 8 to 17 people; Organizational experience exists in RTD managing research team for execution of 26 national and 14 intern. projects, the last in short as follows :

- [1] 1988-1989, Bulgarien-BRD, Otto-Schott Inst. der Friedrich-Schiller Univ. –Jena, Germany.
- [2]1993-1996, Bulgaria- Spain, CSIC , Autonomous University - Madrid (C-12), Spain
- [3] 1993-1995 EC3fp, COST'93project: coord. University of Twente, The Netherlands.
- [4] 1990-1991, DAAD, contract No 314-SP-OE-90-rut, Techn. Univ. Clausthal - Zellerfeld, Germany
- [5] 01-09 1994.Contract EC authority, Berlin Neutron Scattering Center, Germany
- [6] 1995- Berlin Neutron Scattering Center, Germany) Project PECO (MAT 01- 252
- [7] 1996-Berlin neutron Scattering Center (HAHN - MEITNER - INSTITUT), Germany
- [8] 2000 – 2003 EC 5fp Project ICA2- CT-200010030 , Coord.ICE/HT- FORTH, Greece
- [9] 02.2004 – 06.2009), 6-fp, Project RealSOFC- **IP** FP6- 502612 , Coord. FZ- Jülich GmbH, Germany.
- [10] 07. 2004 – 06. 2005, 6fp Project SSA FP6- 510314, Coord. TUBITAK – Marmara Res. Centre, Turkey
- [11] 07.2004 – 07.2006, Contract K-10-05-A , Dalian Maritime University, Dalian, PR China
- [12] 03.2005 – 04.2009, EC 6fp **IP** NMP3-CT-2005-011783, Leibnitz Inst. for New Materials, Saarbrucken, G.
- [13] 04/2005 - 04.2007, 6fp Project: SES6-2004-510435, ENFUGEN, Coord. Labor S.r.l.- Italy
- [14]12-2011-05.2014, 7fp Project 286605, SME 2011-OPV, Coordinator: Inside2OutsideLtd.,Cambridge, UK

Technical skills and competences

- Teaching, Training, Research and Industrial application of Advanced Materials e.g. National and European- ERASMUS contracts as follows:
- [1] (1999- 2012), Bulgaria- **Spain**, University of Jaume I, Castellon and UCTM
- [2] (2000- 2006), Bulgaria- **Greece**, University of Patras, Patras, Greece and UCTM.
- [3] (2001- 2004),Bulgaria-**Italy**, University of Calabria and UCTM
- [4] (2006- 2007), Bulgaria-**Italy**, Università degli Studi di Perugia and UCTM.
- [5] 2009-2011 EC – EMU 2, Bulgaria- **Egypt**, Damanhour University and UCTM.
- [6] (2009-2013), Bulgaria-**Spain**, University Vigo and UCTM.

Computer skills and competences

Good knowledge of Microsoft Office™ (Windows 7 and PowerPoint™);
 Basic knowledge of graphic design (Adobe, PhotoShop and Matlab).
 Data basis: Phase Diagrams ASTM, Program package NOVA and Molecular Modeling.

Artistic skills and competences

Painting

Other skills and competences

Tourism, Athletics, Founder and president of Bulgarian Section of NGO "EUROSCIENCE" (2003-2009)

Additional information

➤ **Membership:**

- 1)Regular Member of Non-Oxide Glass Society (NOGS),Universite de Renne,France (member No 87037);

- 2) Regular member of the Union of Bulgarian Scientists, Sofia, Bulgaria, (membership No 10069);
- 3) Regular member of the American Ceramic Society (G&C), Westerville, Ohio, (membership No 128564)
- 4) Regular member of EUROSCIENCE- from 2002- at present, Strasbourg, France;

➤ **Awards:**

- [1] In 1987 – State Research Award for “Advance Technologies” about TEA CO₂ Laser Marking and Decoration Technology application to the Industry.
- [2] In 2004 – Silber medal of University of Qatar, Doha, Qatar
- [3]-Nomination “**The Golden Pegasus**” - for the best presentation and key paper preparation in the field of Nanoscience and Nanotechnology; Jubilee conference University “A.Kanchev” Russe, 31.X-01.XI, 2008, Razgrad, Bulgaria.
- [4]Nomination Golden Sign for “**Contribution to the Youth Innovation and Information Society**” – for contribution in the field of innovations study and nano- research “Youth innovation and information society-AB. November. 2008, National Palace of Culture, a nomination under the patronage of Prime Minister of Bulgaria, Mr. Sergei Stanishev.
- [5] Nomination “**PYTHAGORAS**” - a win recognition as indicative national scientists in the field of Technical Sciences for 2008 Acad. Y., Prof. V. Kozhukharov, 28 of February 2009, Nomination by Ministry of Science and Education, Bulgaria.

➤ **Publications:**

Above 300 articles and reports, Bulgarian **Patents** 26, Germany Pat. 2 and US Pat. 2, EU Pat. 1; Registered scientific citations (SCI) of the articles above 1400 (Data in details are available after request).
Books: [1]- V.Kozhukharov “**BOROSILICATE GLASSES analysis and control**“ Manual I– The “3.3” glasses- Raw materials (1991); Manual II – The “3.3” glasses- Composition analysis and control (1991); Manual III – Properties of “3.3” glasses (1991) and Manual IV- The “3.3”glasses – Quality Control (1991)
[2]- V. Kozhukharov “**High Temperature Methods of Synthesis**” (2004) in Bulgarian, 2-nd issue in preparation in Spanish Language (2006).

➤ **International Post and Expert Activities:**

- [1] Expert in **UNIDO** international contract signed for development of manuals for Hanoi, Vietnam: **UNIDO** project, Implementation United Nations Post: DP/Vie/80/030/11-55/J13428
- [2] Member of 6 Tribunal-Councils for Ph.D.Thesis Act Examination, University Jaime I, Spain, 29 Sept. 1995, 27 March 2002, June 2002, Oct.2008, March 2009 councils at UJI & March 2004, Univ.Lile, France
- [3] EC Independent Expert Section “Sustainable Energy Systems” 6fp, Brussels, Belgium (2003).
- [4] President of the Bulgarian Local Section of EUROSCIENCE, Strasbourg, France (Since 2003- 2009) < <http://www.euroscience.org> > and/or < <http://euroscience.hit.bg> >
- [5] Vice-chairman and Independent Expert at Ministry of Education and Science, National Fund “Scientific Research” Council Branch –Technical Science, January 2006 – June 2009.
and National Fund “Scientific Research”- Leader of experts evaluator commission No9 , 2008 - 2010.
- [6] Member of Chemistry Commission - High Attestation Council at Ministry Council, Bulgaria 2006- 2009,
- [7]- EC-7fp National Contact Point – NMP, data available via <http://cordis.europa.eu/ncp-nmp/> .
- [8] EC Independent Expert, Section “NMP” 7fp, Brussels, Belgium (2011).
- [9] EC Independent Evaluator, Section mERA-Net, Brussels, Belgium (2012)

➤ **Ph.D. students**

- 1-Eng. **Rositza Kirilova**, (1987), N.A.
- 2-Eng. **Dimitar Dimitrov**, (1989)- Synthesis and investigation of films for optical memory application, **Eng.**
- 3-**Christos Trapalis** (1994) Synthesis of amorphous and polycrystalline coatings via sol- gel route, **Eng.**
- 4-Eng. **Yordanka Marinova**, (2002)- New ceramic pigments with perovskite structure (coop.with UJI, Sp.),
- 5-Dipl. Eng. **Vasil Kharizanov**(2005)-Synthesis and characterization of pigments on malayaite base (with UJI, Spain),
- 6-Dipl. Eng. **Maria Ivanova** (2007)- Inorganic membranes: synthesis and characterization
- 7-Dipl. Eng. **Nikolay Vasilev** (2009) - Synthesis and investigation of advanced cathodes materials for energy conversion
- 8-Dipl. Eng. **Yana Tzvetkova** (2009) - Synthesis and investigation of anode material for SOFC
- 9-Dipl. Eng. **Todor Gerganov**-(2010) - Study of ageing behavior in SOFC
- 10-Dipl. Eng. **Stefan Kozhukharov**- (2010)- Study and evaluation of nanocomposite hybrid coatings for corrosion protection.
- 11-Dipl. Chem. **Emad El-Mater**- (Febr.2012)- Corrosion and protection of AA2024 aluminium alloy by cerium compounds in chloride medium, EMU-2, EC- grand 2009 -2011, Damanhour University, Egypt.

➤ **Ph.D. students actual at present**

- [1] Study a new generation IT- SOFC cathodes (**Dipl. Eng. Stefan Simeonov**), (in cooperation with Prof. Jean-Claude Grenier, Universite Bordeaux , France). (Finish Febr. 2012)
- [2] Study of barrier layers for application in OPV solar cells. (**Dipl.Eng. Valentin Bozhilov**) start 2012
- [3] Study and evaluation of UV aging behavior of OPV solar cells (**Dipl.Eng. Emil Bubev**) start 2012

