

Name: Shamil Mirkhanov.

Nationality: Russian.

Current residence: Dundee, Scotland, UK. Ready for fast relocation.

Education: 1996 – 2006 - Lyceum №180 «Poliforum», Ekaterinburg, Russia.

2006 – 2010 – Kazan Federal University, Kazan, Russia. BSc in Physics. (BSc thesis title: «EPR-electrochemistry and preferential conformation of isatine-substituted methanofullerene, used in active layers for solar cells»)

2010 – 2012 – Kazan Federal University, Kazan, Russia. MSc in Physics. (MSc thesis title: «Conductive properties of Tiokol composites with nanocarbon filler»)

(MSc diploma GPA 4.9 out of 5).

August 2014 – March 2017 – The University of Dundee, Scotland, UK. Marie Curie Early Stage Research Fellowship.

Languages: Russian (Native), English (Fluent), Tatar (Second Native), German (Basic).

Awards and Fellowships:

March 2006 – Prize winner of the Russian Polytechnic Olympiad for School students.

September 2007 – March 2012 – Kazan Federal University Sports Fellowship.

March 2012 – June 2012 – junior developer fellowship, Fujitsu GDC Russia.

August 2014 – March 2017 – Marie Curie ESR fellowship, Dundee, Scotland.

Research stays:

16 September 2016 – 01 December, 2016 – Research Stay (Secondment, Within Marie Curie ESR Fellowship), University of Stuttgart, Germany. Physics Department «IHFG». Research on Membrane Semiconductor Disc Lasers (MECSEL): modeling, fabrication, processing (chemical etching) and building of IR MECSEL lasers.

4th of August 2016 – 5th of August 2016 – Carl Zeiss, Jena, Germany. Certified Training in Laser Scanning Microscopy.

Work experience:

2008 - 2010 – technician at Department of Software and Hardware systems (part- time),

State Institute of Applied Optics, Kazan, Russia.

2008 – Summer 2012 – BSc and MSc diploma student in A.E. Arbuzov Institute Of

Organic and Physical Chemistry, Kazan Scientific Centre Russian Academy of Sciences.

March 2012 – June 2012 – junior developer fellow, Fujitsu GDC Russia, Kazan.

September 2012 – June 2013 – Umea University, Sweden. Research student (Fluorescence laser spectroscopy).

August 2014 – March 2017 – Marie Curie Research Fellow and PhD candidate, The University of Dundee, Scotland, UK.

#### Trainings and further education:

Winter 2011 «Computer programming using C/C++»

(certificate) , The "Specialist" Centre of computer education,

Baumans Moscow State Technical University. Winter 2011

«Computer programming and applications using C++» , Fujitsu

GDC Russia training courses.

Spring 2011 «Computer programming using PHP 5/6»

(certificate), The "Specialist" Centre of computer education,

Baumans Moscow State Technical University. July 4, 2011 – July

29, 2011 «English. Advanced Level». Full-time course at EF

International Language

Centers. Dublin, Ireland.

4<sup>th</sup> of August 2016 – 5<sup>th</sup> of August 2016 – Professional Certificate in Laser Scanning Microscopy, Carl Zeiss, Jena, Germany.

#### Additional information:

Hobbies: Gym, reading, computing, travelling, science.

driving license with 8 years of experience.

Publications:

- 1) Measurements of nonlinear lensing in a semiconductor disk laser gain sample under optical pumping and using a resonant femtosecond probe laser. A. H. Quartermann, S.

- Mirkhanov, C. J. C. Smyth and K. G. Wilcox.  
Appl. Phys. Lett. 109, 121113 (2016);
- 2) Multiphoton imaging with high peak power VECSELs, Mirkhanov, S., Quarterman, A.H., Swift, S., (...), Smyth, C.J.C., Wilcox, K.G. Proceedings of SPIE - The International Society for Optical Engineering 9734, 973412, 2016.
  - 3) ESR study of spin adducts of the direct electrocatalytic decomposition of light aliphatic alcohols in a polymer electrolyte fuel cell, M. I. Valitov, I. R. Nizameev, D. M. Kadirov, Sh.N. Mirkhanov, Russian Chemical Bulletin, August 2010, Volume 59, Issue 8, pp 1543-1548.
  - 4) Synthesis of Fluorescent Ring-Fused 2-Pyridone Peptidomimetics, K. Syam Krishnan, Christoffer Bengtsson, James A. D. Good, Shamil Mirkhanov, Erik Chorell, Lennart B.-Å. Johansson, and Fredrik Almqvist. J. Org. Chem., 2013, 78 (23), pp 12207–12213, Publication Date (Web): October 25, 2013 (Note), DOI: 10.1021/jo401844y.
  - 5) M.I. Valitov, Sh. Mirhanov, G.M. Fazleeva, V.I. Morozov, M.K. Kadyrov. EPR of cluster nitroxide biradicals. XVI Russian Conference "Structure and dynamics of molecular systems", J. Ola, Ufa, Kazan, Moscow, 2009, Abstracts, P.40.
  - 6) M.K. Kadyrov, A.A. Karasik, J.G. Budnikova, M.I. Valitov, Y.S. Spiridonov, I.R. Nizameev, Sh. N. Mirhanov, S.A. Krasnov, O.G. Sinyashin. Investigation of the catalytic properties of nickel complexes on the decomposition of hydrogen in the fuel cell. Abstracts of VI Russian Conference on the Chemistry of polynuclear compounds and clusters, 13 - 18 September 2009, Kazan, C-84.
  - 7) M.I. Valitov, Sh. Mirhanov, G.M. Fazleeva, V.I. Morozov, M.K. Kadyrov. EPR of organic biradicals fullerene cluster based on 2,2,6,6-tetramethyl-4-oxopiperidine-1-oxyl. Abstracts of VI Russian Conference on the Chemistry of polynuclear compounds and clusters, 13 - 18 September 2009, Kazan.
  - 8) Thermal management of VECSELs by front surface direct liquid cooling, Smyth, C.J.C., Mirkhanov, S., Quarterman, A.H., Wilcox, K.G., Proceedings of SPIE - The International Society for Optical Engineering, 9734, 973413. 2016
  - 9) Resonant measurements of nonlinear lensing in a VECSEL gain sample, Quarterman, A.H., Smyth, C.J.C., Mirkhanov, S., Wilcox, K.G, Proceedings of SPIE - The International Society for Optical Engineering, 9734, 97340J, 2016