

# CURRICULUM VITAE

Name: Dr. Oleksandr (Alex) Bondarchuk

## EMPLOYMENT

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- 01.2018 – present **International Iberian Nanotechnology Laboratory (INL), Braga**, XPS facility manager.
- 09.2011 – 12.2018 **CIC energiGUNE, Miñano, Spain**, Head of Surface Science Laboratory
- 06.2009 - 05.2011 **SPECS GmbH, Berlin**, Sales engineer for electron spectroscopy instruments: XPS, UPS, SEM/SAM, AES and LEEM/PEEM.
- 06.2006 - 06.2009 **Fritz Haber Institute, Berlin**, Post Doctoral position the Department of Chemical Physics.
- 02.2004 - 06.2006 **University of Texas at Austin, USA** (Supervisor: **Prof. J.M. White**) with location in the Environmental Molecular Science Laboratory of **Pacific Northwest National Laboratory**, Richland, WA, Post Doctoral position
- 09.2001 - 02.2004 **University of Maryland, Colledge Park, MD**, Post Doctoral position (Supervisor: Prof. **Ellen D. Williams**).
- 02.1999 -09.2001 **Institute of Metal Physics, National Academy of Science of Ukraine, Kiev**, Senior Scientist
- 08.1983-02.1999 **Department of RadioPhysics, Kiev T. Shevchenko University, Ukraine**, Assistant Professor, Senior Scientist, Research Staff Member, PhD student

## EDUCATION

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- 1995 **Ph.D. in Physics**, University of Kiev, Ukraine.
- 1983 **M.S. Physics and Electronics (specialization in microelectronics)**, Kiev T. Shevchenko University, Kiev, Ukraine.

## SELECTED HONOURS

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- 09.2017 – 12.2017 **Salvador de Madariaga Grant**, Spanish Ministry of Education, Culture and Sports

## SELECTED PUBLICATIONS

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Y. Grosu, **O. Bondarchuk**, A. Faik, The effect of humidity, impurities and initial state on the corrosion of carbon and stainlesssteels in molten HitecXL salt for CSP application, Solar Energy Materials and Solar Cells 2018, 174: p.34-41. <https://doi.org/10.1016/j.solmat.2017.08.026>

G.G. Eshetu, X. Judez, C. Li, **O. Bondarchuk**, L. M. Rodrigez-Martinez, H. Zhang, M. Armand, Lithium Azide as an Electrolyte Additive for All-Solid-State Lithium–Sulfur Batteries, Angewandte Chemie International Edition 2017, 129: p.15570-15574. <https://doi.org/10.1002/ange.201709305>

M.J. Piernas-Muñoz, E. Castillo-Martinez, **O. Bondarchuk**, M. Armand, T. Rojo, Higher voltage plateau cubicPrussian White for Na-ion batteries, Journal of Power Sources 2016, 324: p.766-773. <https://doi.org/10.1016/j.jpowsour.2016.05.050>

**O. Bondarchuk**, E. Goikolea, A. Morel, D. Belanger, T. Brousse, R. Mysyk, Thin films of pure vanadium nitride: Evidence for anomalous non-faradaic capacitance, Journal of Power Sources, 2016, 324: p.439-446. <https://doi.org/10.1016/j.jpowsour.2016.05.093>