

Curruculum Vitae Oleg N. Antzutkin – Luleå University of Technology (LTU), Sweden

Name: Oleg N. Antzutkin

Date of Birth: January, 01, 1965

Citizenship: Swedish

Gender: Male

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Chemistry of Interfaces

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PhD in Physical Chemistry: 1996, “Sideband Manipulation in Magic-Angle-Spinning Nuclear Magnetic Resonance”, University of Stockholm, Sweden, (principal supervisor, Prof. Malcolm H. Levitt)

Docent (Assoc. Prof.): 2000, Physical Chemistry, Luleå University of Technology, Sweden

Present position: – Chair Professor in Chemistry of Interfaces, Luleå University of Technology, Sweden, September 2006 – present (100% in total, 15% occupation in teaching) and Honorary Professor at the University of Warwick, Department of Physics

Supervision of PhD students: during (1997-2017) 8 doctorates at LTU and 1 at Warwick University

Currently supervising and co-supervising 4 PhD students at LTU (2 PhD students for double PhD degrees at LTU and University of Oulu, Finland)

Networking with Industry: New Boliden AB; LKAB; Axel Christiernsson AB; Nynäs AB, NCC, PEAB

Total External Funding: from Vetenskapsrådet, HLRC/LKAB, VINNOVA, Innovationsbron, FORMAS, Kempestiftelserna and KAW (2000 – 2017): **41.786 MSEK (>9.5 MSEK** for research on ionic liquids since 2010, estimated total amount of time for research on ionic liquids >6000 hours)

Committee of Experts: Expert evaluator for the Research Council of Norway; for BBSRC (UK); Regular member and opponent in examination committees: in Aarhus University, Denmark (1); Umeå University (1), University of Stockholm (3), Swedish Agricultural University, Uppsala (1), Chalmers University of Technology (2) and at LTU (4)

Awards and prizes: VR and STINT postdoc fellowship for research at NIH, USA, 1998-1999; Kungliga Skytteanska Samfundets prize to young researcher May 2001; 'Hugo Theorellpriset', August 2004

Publications: Peer-reviewed publications: **174**; *Angew.Chem.Int.Ed.*(2) *PNAS*(2), *JACS*(2), *JChemPhys*(2), *Langmuir*(7), *JMR*(6), *Biochemistry*(3); *PCCP*(5); *J.Mat.Chem.*(1), *J.Phys.Chem.*(5). Book chapters: **4**, Patents: **6**; Conference contributions & invited talks: **>81** (>**38** invited talks); 'h'-index: **30** (2017-04-02); Total ISI Citations (Antzutkin O* OR Antsutkin O*): **>4774** (2017-04-02).

ON-GOING FUNDING RELATED TO IONIC LIQUIDS

Source and (Project leader and co-applicants)	Project title	Duration	Amount granted (applied for) in SEK
Knut and Alice Wallenberg Foundations (<u>Glavatskih</u>) (Antzutkin, Rutland, Kloos, Laaksonen)	Ionic liquids – Lubricants Enabling Advanced Performance, I-LEAP	2013-2018	32 000 000 (5 800 000 to OA)
Swedish Research Council (<u>Antzutkin</u> , Shah)	Halogen-free ionic liquids and their applications	2014-2017	3 400 000
Swedish Research Council (<u>Antzutkin</u> , Shah)	Heteroleptic orthoborate-based ionic liquids	2018-2021	Applied for 3 768 852 SEK

Patents

1. F.U. Shah, S. Glavatskih and **O.N. Antzutkin, 2012**, High performance lubricants and additives for lubricants (ionic liquids) for ferrous and non-ferrous materials; Swedish patent application No. 1150255-6 (March 22, 2011). (Swedish patent No. 535 675 approved 2012-11-06).
2. F.U. Shah, S. Glavatskih and **O.N. Antzutkin, 2012**, Anti-wear additive for lubricants; Swedish patent application No. 1150550-0 (July 06, 2011). (Swedish patent No. 535 894 approved 2013-02-05).
3. F.U. Shah, S. Glavatskih and **O.N. Antzutkin, 2012**, Ionic-Liquid-Based Lubricants and Lubricant Additives Comprising Ions; International patent application PCT/SE2012/050317 (March 22, 2012). (International patent application approved, WO2012/128714 A1): Patents granted: in the U.S.A. (US 9,518,243 B2; 13/12-2016), Japan (JP 5920900, 2016), China (ZL 2012 8 0013915.5, 2016), Russian Federation (Nr. 2566364, 2015) and pending in EPO, Canada, South Korea and Brazil