



## Curriculum vitae Europass

### Personal Information

Name(s) / Surname(s)

Position

Professional address

Electronic mel

Birthday, Nationality

**Wieczorek Władysław**

Professor of Chemistry, Faculty of Chemistry Warsaw University of Technology

Department of Inorganic Chemistry and Solid State Technology, Faculty of Chemistry Warsaw University of Technology, Noakowskiego 3, 00-664 Warszawa, Poland

wladek@ch.pw.edu.pl

April 24th, 1962, Polish

### Diplomas, University Degrees

2002

Professorship in Chemistry (Chemical Technology) awarded by the President of Poland

1996

D Sc (Habilitation) Warsaw University of Technology, Faculty of Chemistry

1989

PhD Warsaw University of Technology, Faculty of Chemistry

### Positions held

Sept. 2007 – now

Distinguished Professor of Chemistry, Warsaw University of Technology, Faculty of Chemistry, Poland

Sept. 2002 – Sept. 2007

Professor of Chemistry, Warsaw University of Technology, Faculty of Chemistry, Poland

Sept. 1996 – Sept. 2002

Associate Professor of Chemistry, Warsaw University of Technology, Faculty of Chemistry, Poland

May 1993 – Sept. 1996

NATO Post-Doc Fellow, University of Guelph, Canada (Prof. J.R. Stevens)

Sept. 1990- May 1993

Assistant Professor of Chemistry, Faculty of Chemistry, Warsaw University of Technology, Poland

### Administrative Responsibilities

Sept. 2016 -now

Dean of the Faculty of Chemistry Warsaw University of Technology

Sept. 2008 – 2016

Vice-Rector Student Affairs at the Warsaw University of Technology

Sept. 2002 – Sept. 2008

Dean of the Faculty of Chemistry, Warsaw University of Technology

Sept. 1996 – Sept. 2002

Vice-Dean Academic of the Faculty of Chemistry, Warsaw University of Technology

Sept. 2006-2012

Chair of the Department of Inorganic Chemistry and Solid State Technology

### Promotions & Awards

2002-2010 and 2016 –now

Elected member of the State Committee for Chemical Sciences

1997

Siemens Promotional Award for the Distinguished D Sc Thesis in the Field of Chemistry and Material Sciences

1993

Nominated NATO Post-doc Fellow

1990

Ministry of Education Award for the Distinguished Ph D Thesis in the Field of Chemistry

### Indicators of Research Activities

181

Publications in International Journals (h = 49)

50

Invited oral presentations in International Conferences

> 100

Oral communications and posters in international conferences

13

PhD thesis as principal advisor since 1996

1

Textbook

3

Chapter of book

22 (12)

Patents published (International Patents)

Citations - Hirsch factor 49 (44)

### Citations

7809(6693)

### Keywords & Domains of Expertise

Solid State Chemistry, Ionic Conductors, Battery materials, Polymer electrolytes, Composites ...

## 10 most cited publications

- 385 W.Wieczorek, Z. Florjańczyk i J.R. Stevens, "Composite Polyether Based Electrolytes", *Electrochimica Acta* 40 (1995) 2251
- 337 J.Płocharski, W.Wieczorek, "PEO based composite solid electrolyte containing NASICON", *Solid State Ionics* 28-30 (1988) 979
- 250 - W.Wieczorek, Z. Florjańczyk, J.R. Stevens, " Composite polyether based solid electrolytes. The Lewis acid-base approach", *Solid State Ionics* 85 (1996) 67-72,
- 238 W.Wieczorek, D. Raducha, A. Zalewska, J.R. Stevens, „ Effect of salt concentration on the conductivity of PEO-based composite polymeric electrolytes”, *J. Phys. Chem. B* 102 (1998) 8725
- 201 W.Wieczorek , P. Lipka, G. Zukowska, H. Wyciślik, „ Ionic Interactions in polymeric electrolytes based on low molecular weight (poly(ethylene glycol)s)", *J. Phys. Chem. B.* 102 (1998) 6968
- 187 W.Wieczorek, K.Such, H.Wyciślik, J.Płocharski, "Modifications of Crystalline structure of PEO polymer electrolytes with ceramic additives", *Solid State Ionics* 36 (1989) 255-257,
- 174 J. Przyłuski, M. Siekierski i W. Wieczorek, " Effective medium theory in studies of conductivity of composite polymeric electrolytes", *Electrochimica Acta* 40 (1995) 2101,
- 170 M.Marcinek,A.Bac, P. Lipka, A. Zalewska, G. Żukowska, R. Borkowska, W.Wieczorek, " Effect of filler surface group on ionic interactions in PEG-LiClO<sub>4</sub>-Al<sub>2</sub>O<sub>3</sub> composite polyether electrolytes" *J. Phys. Chem. B* 104 (2000)
- 223 M. Marcinek, J. Syzdek, M. Marczewski, M. Piszcz, L. Niedzicki, M. Kalita, A. Plewa – Marczewska, A. Bitner, P. Wieczorek, T. Trzeciak, M. Kasprzyk, P. Łęzak, Z. Żukowska, A. Zalewska, W.Wieczorek, „ Electrolytes for Li-ion transport – Review” , *Solid State Ionics* 276 (2015) 107-126
- 129 W.Wieczorek, A. Zalewska, D. Raducha, J.R. Stevens, “ Composite polyether electrolytes with Lewis acid type additives” , *J. Phys. Chem. B.*, 102 (1998) 352-360

## 10 recent publications

1. Kottarathil, A., Slim, Z., Ahmad Ishfaq, H., Jeschke, S., Żukowska, G.Z., Marczewski, M., Lech, K., Johansson, P., Wieczorek, W. "The Role of the Anion in Concentrated Electrolytes for Lithium-Sulfur Batteries", (2024) *Journal of the Electrochemical Society*, 171 (7), art. no. 070506, . DOI: 10.1149/1945-7111/ad5b8c
2. Dranka, M., Fabiański, M., Zalewska, A., Żukowska, G.Z., Wieczorek, W., "A new concept of ternary aqueous electrolytes based on lithium 4,5-dicyanoimidazolate hydrates" (2024) *Energy Storage Materials*, 70, art. no. 103521, . DOI: 10.1016/j.ensm.2024.103521
3. Wölke, C., Benayad, A., Lai, T.-L., Hanke, F., Baraldi, G., Echeverría, M., Esen, E., Ayerbe, E., Neale, A.R., Everitt, J., Hardwick, L.J., Yan, P., Poterała, M., Wieczorek, W., Winter, M., Cekic-Laskovic, I. "Single Versus Blended Electrolyte Additives: Impact of a Sulfur-Based Electrolyte Additive on Electrode Cross-Talk and Electrochemical Performance of LiNiO<sub>2</sub>||Graphite Cells" (2024) *Advanced Energy Materials*, DOI 10.1002/aenm.202402152
4. Szczęsna-Chrzan, Anna; Vogler, Monika; Yan, Peng; Żukowska, Grażyna Zofia; Wölke, Christian; Ostrowska, Agnieszka; Szymańska, Sara; Marcinek, Marek; Winter, Martin; Cekic-Laskovic, Isidora; Wieczorek Władysław; Stein Helge, Ionic conductivity, viscosity, and self-diffusion coefficients of novel imidazole salts for lithium-ion battery electrolytes, *J. Mater. Chem. A* Volume 11, Issue 25, Pages 13483 - 1349230 May 2023, DOI 10.1039/d3ta01217d
5. Szczęsna-Chrzan, Anna; Trzeciak, Tomasz; Zybert, Magdalena; Ronduda, Hubert; Ostrowski, Andrzej; Trzaskowski, Maciej; Drozd, Marcin; Smoliński, Maciej; Żukowska, Grażyna Zofia; Raróg-Pilecka, Wioletta; Wieczorek, Władysław; Buckel, Alexander, Systematic Studies on Liquid Sodium 4,5-dicyano-2-(trifluoromethyl)imidazolate (NaTDI)-Based Electrolytes and Its Impact on the Cycling Behaviour Against Wet Impregnated WI-NaNCM and Prussian White Cathodes, *Advanced Materials Interfaces*, Volume 9, Issue 8 March 11, 2022 Article number 2102012, DOI 10.1002/admi.202102012
6. M. Armand , P. Johansson, ..., W.Wieczorek , " Review – Development of Huckel type anions. From molecular modeling to industrial commercialization. A success story" *J. Electrochem. Soc.* 167 (2020) 70562
7. P. Jankowski, W.Wieczorek P. Johansson, " Functional ionic liquids: Cationic SIE –formers for lithium batteries", *Energy Storage Materials* 20(2019) 108-117
8. P. Jankowski, N. Lindhal, J. Weidow, W.Wieczorek, P. Johansson, " Impact of sulfur-containing additives on lithium-ion battery performance. From computational predictions to full –cell assessments", *ACS Appl. Energy Materials* 1 (2018) 2582-2591
9. K. Westman, P. Jankowski, ..., W.Wieczorek , " Diglyme based electrolytes for sodium-ion batteries" *ACS Appl. Energy Materials* 1 (2018) 2671-2680
10. P. Jankowski, M. Dranka, W.Wieczorek, P. Johansson, " TFSI and TDI anions: probes for solvate ionic liquid and disproportionation –based lithium battery electrolytes", *J. Phys. Chem. Lett.* 8(2017) 3678-3682