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## **Employment and positions**

Institute of Metallurgy and Materials Science, Polish Academy of Sciences (1974-present): from 1997 deputy head of Laboratory of Transmission Analytical Electron Microscopy, from 2010 - professor PAS

## **Scientific Career**

**M.Sc.:** Jagiellonian University (Solid state physics), 1974

**Ph.D.:** Institute of Metallurgy and Materials Science, Polish Academy of Sciences, 2000

**D.Sc.**: Institute of Metallurgy and Materials Science, Polish Academy of Sciences, 2010

## Scientific achievements

236 papers (132 cited by the Journal Citation Reports), 2 books and 5 chapters in books

The most relevant publications during last 5 years

1.

H. Paul, **L. Litynska-Dobrzynska**, M. Prazmowski; Microstructure and Phase Constitution Near the Interface of Explosively Welded Aluminum/Copper Plates, Metallurgical and Materials Transactions, 44A (2013) 3836-3851

2.

J. Wojewoda-Budka, Z. Huber, **L. Lityńska-Dobrzyńska**, N. Sobczak, P. Zieba; Microstructure and chemistry of the SAC/ENIG interconnections, Materials Chemistry and Physics, 139 (2013) 276-280

3.

K. Stan, **L. Lityńska-Dobrzyńska**, J.L. Lábár, A. Góral; Effect of Mo on stability of quasicrystalline phase in Al-Mn-Fe alloy, Journal of Alloys and Compounds, 586 (2014) S395-S399

4.

K. Kubok, **L. Litynska-Dobrzynska**, J. Wojewoda-Budka, A. Góral, A. Debski, Investigation of Structures in As-Cast Alloys from the Mg-Zn-Ca System, Archives of Metallurgy and Materials 58 (2013) 329-333.

5.

K. Stan, **L. Lityńska-Dobrzyńska**, J.L. Lábár, A. Góral; Effect of Mo on stability of quasicrystalline phase in Al-Mn-Fe alloy, Journal of Alloys and Compounds 586 (2014) S395-S399.

6.

M. Mitka, A. Góral, Ł. Rogal, **L. Lityńska-Dobrzyńska**; Microstructure of mechanically alloyed and annealed Al62Cu25.5Fe12.5 powder, Journal of Alloys and Compounds 653 (2015) 47-53.

7.

**L. Lityńska-Dobrzyńska**, J. Dutkiewicz, K. Stan-Głowińska, W. Wajda, L. Dembinski, C. Langlade, C. Coddet; Characterization of aluminium matrix composites reinforced by Al-Cu-Fe quasicrystalline particles, Journal of Alloys and Compounds 643 (2015) S114-S118.

8.

**L. Lityńska-Dobrzyńska**, M. Mitka, A. Góral, K. Stan-Głowińska, J. Dutkiewicz; Microstructure and mechanical properties of aluminium matrix composites reinforced by Al62Cu25.5Fe12.5 melt spun ribbon, Materials Characterization 117 (2016) 127-133.

9.

K. Stan-Głowińska, **L. Lityńska-Dobrzyńska**, J. Morgiel, A. Góral, M.A. Gordillo, J.M. Wiezorek; Enhanced thermal stability of a quasicrystalline phase in rapidly solidified Al-Mn-Fe-X alloys, Journal of Alloys and Compounds 702 (2017) 216-228.

10.

- B.D. Napruszewska, A. Michalik-Zym, R. Dula, E. Bielanska, W. Rojek, T. Machej, R.P. Socha, **L. Litynska-Dobrzynska**
- , K. Bahranowski, E.M. Serwicka; Composites derived from exfoliated Laponite and Mn-Al hydrotalcite prepared in inverse microemulsion: A new strategy for design of robust VOCs combustion catalysts, Applied Catalysis B- Environmental 211 (2017) 46-56.

## **Research Projects**

Production of nano and ultramicrocrystalline super high-strength Al-Mg-Zn-Cu-Zr-Sc alloys and characteristic of their structure by high resolution transmission electron microscopy methods - supervisor, (2008-2010)

Characterization of aluminium matrix composites reinforced with quasicrystal particles (2012-2015) - supervisor

Symposium MRS Fall Meeting: Phase Stability, Phase Diagrams, Thermodynamics, Modelling and Applications (2006) - symposium secretariat
9th Polish-Japanese Joint Seminar on Micro and Nano Analysis (2012) - symposium secretariat
Membership in professional societies
Member of Scientific Board of the Institute of Metallurgy and Materials Science of the Polish Academy of Sciences
Member of Polish Society for Microscopy
Member of Committee on Materials Science of the Polish Academy of Sciences
Main scientific interest
Characterisation of microstructure by transmission electron microscopy methods, properties and structure of aluminium and magnesium alloys, quasicrystals, rapid solidification casting techniques.