

## Curriculum vitae

### Personal data

Name: András ROÓSZ

Office: Institute of Physical Metallurgy, Metal Forming and Nanotechnology, University of Miskolc

### Employments

Professor emeritus

### Scientific degree

DSc, Member of of Hungarian Academy of Sciences

### Scientific activities

Physical Metallurgy, Solidification and Solid Phase Transformation of Metals and Alloys

### Professional experiences abroad

Max Planck Institute Stuttgart, University of Darmstadt, University of Cambridge, University of Nagaoka, Japan

### Membership

OMBKE, MAE

### Published reports

Papers: 312, cites: 1193

### The most relevant publications

1. Czel Gyorgy, Tomolya Kinga, Sveda Maria, Sycheva Anna, Kristaly Ferenc, Roosz Andras, Janovszky Dora, *J Non-crystalline Solids*, Vol. 458, 2017, 41-51.  
“Synthesis and characterization of Zr-based in situ crystal precipitated and liquid phase separated bulk metallic glass composite”
2. Budenkova O, Baltaretu F, Steinbach S, Ratke L, Roósz A, Rónaföldi A, Kovács J, Bianchi A-M, Fautrelle Y, *Mater. Sci. Forum*, Vol. 790-791, 2014, 46-51.  
“Modelling of Al-7wt%Si-1wt%Fe ternary alloy: Application to space experiments with a rotating magnetic field”
3. Kovács J, Rónaföldi A, Kovács Á, Roósz A, *Trans. of the Indian Institute of Metals*, Vol. 62(4-5), 2009, 461-464.  
“Effect of the rotating magnetic field on the unidirectionally solidified macrostructure of Al<sub>6</sub>Si<sub>4</sub>Cu alloy”
4. Rónaföldi A, Kovács J, Roósz A, *Trans. of the Indian Institute of Metals*, Vol. 62(4-5), 2009, 475-477.  
“A suggested effective method for unidirectional solidification under rotating magnetic field in the space experiments”
5. Rónaföldi A, Kovács J, Roósz A, *Trans. of the Indian Institute of Metals*, Vol. 60(2-3), 2007, 213-218.  
“Investigation and Visualisation of Melt Flow Under Rotating Magnetic Field”
6. Geiger J, Roósz A, Barkóczy P, *Acta Metall.*, Vol. 49, 2001, 623-629.  
“Simulation of grain coarsening in two dimensions by cellular-automaton”
7. Kraft T, Roósz A, Rettenmayr M, *Scripta Materialia.*, Vol. 35, 1996, 77-82.  
“Undercooling Effects in Microsegregation Modelling”
8. Roósz A, Exner H E, *Acta Metallurgica ET Materialia.*, Vol. 38, 1990, 375-380.  
“Numerical modelling of dendritic solidification in aluminium-rich Al-Cu-Mg alloys”
9. Roósz A, Exner H E, *Acta Metallurgica ET Materialia.*, Vol. 38, 1990, 2003-2008.  
“Ternary restricted-equilibrium phase diagram-I. A first report: General principles and definitions”
10. Roósz A, Exner H E, *Acta Metallurgica ET Materialia.*, Vol. 38, 1990, 2009-2016.  
“Ternary restricted-equilibrium phase diagram-II. Practical application: Aluminium-rich corner of the Al-Cu-Mg system”