

Published articles  
- Dr. Alexandra Popescu -

Exhaustive list of publications: [Google Scholar](#)

ISI Articles

1. Radu Andrei Negrila, **Alexandra Popescu**, Daniel Vizman - *Numerical and experimental modeling of melt flow in a directional solidification configuration under the combined influence of electrical current and magnetic field*  
European Journal of Mechanics - B/Fluids 52 (2015), 147-159  
**IF: 1.418; AIS: 0.685; Q2**
2. Radu Andrei Negrila, **Alexandra Popescu**, Daniel Vizman - *GaInSn Melt Flow Structure Variation with Crucible Size in an Isothermal Electromagnetic Stirring Configuration*  
AIP Conference Proceedings 1694 (2015), 030003
3. Wolfram Miller, **Alexandra Popescu**, Giordano Cantù - *Solidification of multicrystalline silicon - simulation of micro-structures*  
Journal of Crystal Growth 385 (2014), 127-133  
**IF: 1.698; AIS:0.401; Q3**
4. Giordano Cantù, **Alexandra Popescu**, Wolfram Miller - *Grain growth of silicon*  
Acta Materialia 60 (2012), 6755–6761  
**IF: 3.941; AIS:1.711; Q1**
5. Sebastian Dumitrica, Daniel Vizman, Jean - Paul Garandet, **Alexandra Popescu** - *Numerical studies on a type of mechanical stirring in directional solidification method of multicrystalline silicon for photovoltaic applications*  
Journal of Crystal Growth 360 (2012), 76–80  
**IF: 1.552; AIS:0.454; Q3**
6. **Alexandra Popescu**, Daniel Vizman - *Numerical Study of Melt Convection and Interface Shape in a Pilot Furnace for Unidirectional Solidification of Multicrystalline Silicon*  
Crystal Growth & Design 12 (2012), 320-325  
**IF: 4.689; AIS:0.949; Q1**
7. Vasile Pupazan, **Alexandra Popescu**, Octavian Madalin Bunoiiu, Daniel Vizman - *Influence of growth rate on interface shape and grains structure in multicrystalline silicon growth by Bridgman method*  
AIP Conference Proceedings 1472 (2012), 210-214
8. **Alexandra Popescu**, Daniel Vizman - *Numerical study of the influence of melt convection on the crucible dissolution rate in a silicon directional solidification process*  
International Journal of Heat and Mass Transfer 54 (2011), 5540-5544  
**IF: 2.407; AIS:0.825; Q1**
9. Octavian Bunoiiu, Marius Stef, **Alexandra Popescu**, Daniel Vizman - *Interface shape studies in Bridgman growth of multicrystalline silicon*  
AIP Conference Proceedings 1387 (2011), 226-231

**Articles indexed in  
International Databases**

1. Daniel Ursu, Radu Negrița, **Alexandra Popescu**, Ioan Grozescu, Daniel Vizman - *Numerical and Experimental Studies of Fluid Flow and Heat Transfer in a Model Experiment for Hydrothermal Growth*  
Solid State Phenomena 254 (2016), 237-242
2. **Alexandra Popescu**, Daniel Vizman - *Influence of Mechanical Stirring on the Crucible Dissolution Rate and Impurities Distribution in Directional Solidification of Multicrystalline Silicon*  
Annals of West University of Timisoara - Physics 58 (2015), 1224-9718
3. **Alexandra Popescu**, Daniel Vizman - *Influence of Mechanical Stirring on the Crucible Dissolution Rate and Impurities Distribution in Directional Solidification of Multicrystalline Silicon*  
Annals of West University of Timisoara - Physics 58 (2015), 1224-9718