

## Perspectives on Materials Science in 3D - DTU Orbit (09/11/2017)

### **Perspectives on Materials Science in 3D**

Materials characterization in 3D has opened a new era in materials science, which is discussed in this paper. The original motivations and visions behind the development of one of the new 3D techniques, namely the three dimensional x-ray diffraction (3DXRD) method, are presented and the route to its implementation is described. The present status of materials science in 3D is illustrated by examples related to recrystallization. Finally, challenges and suggestions for the future success for 3D Materials Science relating to hardware evolution, data analysis, data exchange and modeling are discussed.

### **General information**

State: Published

Organisations: Department of Wind Energy, Materials science and characterization

Authors: Juul Jensen, D. (Intern)

Number of pages: 11

Pages: 1-11

Publication date: 2016

### **Host publication information**

Title of host publication: Proceedings of the 1st International Conference on 3d Materials Science

Publisher: Springer International Publishing

Series: Proceedings of the 1st International Conference on 3d Materials Science

Main Research Area: Technical/natural sciences

DOIs:

10.1007/978-3-319-48762-5\_1

Source: FindIt

Source-ID: 2372091967

Publication: Research - peer-review › Article in proceedings – Annual report year: 2017