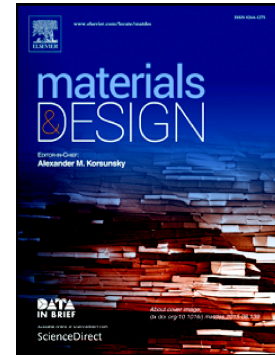


## Accepted Manuscript

Material process development for the fabrication of heterogeneous titanium structures with selective pore morphology by a hybrid additive manufacturing process

Esmat Sheydaeian, Kaveh Sarikhani, Pu Chen, Ehsan Toyserkani



PII: S0264-1275(17)30867-5  
DOI: doi: [10.1016/j.matdes.2017.09.025](https://doi.org/10.1016/j.matdes.2017.09.025)  
Reference: JMADE 3358  
To appear in: *Materials & Design*  
Received date: 22 July 2017  
Revised date: 23 August 2017  
Accepted date: 12 September 2017

Please cite this article as: Esmat Sheydaeian, Kaveh Sarikhani, Pu Chen, Ehsan Toyserkani, Material process development for the fabrication of heterogeneous titanium structures with selective pore morphology by a hybrid additive manufacturing process, *Materials & Design* (2017), doi: [10.1016/j.matdes.2017.09.025](https://doi.org/10.1016/j.matdes.2017.09.025)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Revised**

**Material process development for the fabrication of heterogeneous titanium structures with selective pore morphology by a hybrid additive manufacturing process**

Esmat Sheydaeian<sup>1</sup>, Kaveh Sarikhani<sup>2,3</sup>, Pu Chen<sup>2,3</sup>, Ehsan Toyserkani<sup>1</sup>

1-Multi-Scale Additive Manufacturing Lab, Department of Mechanical and Mechatronics Engineering, University of Waterloo, Waterloo, Ontario, N2L 3G1, Canada

2- Department of Chemical Engineering, University of Waterloo, 200 University Avenue, Waterloo, Ontario, N2L 3G1, Canada

3- Waterloo Institute for Nanotechnology, University of Waterloo, 200 University Avenue, Waterloo, Ontario, N2L 3G1, Canada

**Re-Submitted Electronically to** Journal of Materials and Design

**Submission Date:** August 23, 2017

**Number of Pages:** 21

**Number of Figures:** 10

**Number of Tables:** 5

**Contact Author:** Ehsan Toyserkani, PhD, PEng

**Address:** Department of Mechanical and Mechatronics Engineering,  
University of Waterloo, Waterloo, Ontario, Canada, N2L  
3G1, e-mail: ehsan.toyserkani@uwaterloo.ca

Download English Version:

<https://daneshyari.com/en/article/5023118>

Download Persian Version:

<https://daneshyari.com/article/5023118>

[Daneshyari.com](https://daneshyari.com)