MATHI: Call for Papers Special Issue
"3D Printed Materials for Healthcare"

ATLANTIS PRESS

Guest Editor

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Aims and Scope

Materials Highlights is pleased to announce the upcoming publication of a special issue on "3D Printed Materials for Healthcare".

The world of "medical 3D printing" or "3D printing in healthcare" as it is also known is fast becoming the largest application in the 3D printing sphere. There has been a huge rise in the number of applications emerging in the field as a result of the technology becoming more accessible to users. With major growth in precision and personalized medicine, there is a strong demand for bespoke and patient-specific medical applications, tailored exactly to an individual or their anatomy. Given the rapid developments in this field in recent years, this special issue of *Materials Highlights* aims to present the most recent developments within the field. Furthermore, it will discuss the future directions of 3D printing in healthcare. Papers contributing to developments in methodology, properties of materials for printing and applications are encouraged to submit.
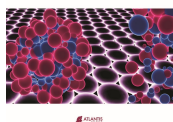
Main Topics and Quality Control

This special issue is dedicated to a set of best papers in the field of 3D printed materials for healthcare. Contributions on (but not limited to) the following topics are invited for submission:

- Customized prosthetics and implants
- Anatomical models for surgical planning and education
- Pharmaceutical research including drug dosage forms, delivery and discovery
- Tissue and organ fabrication
- Personalized medical products and equipment
- Development of synthetic polymers used for 3D printing

Full papers will be subject to a strict review procedure for final selection to this special issue based on the following criteria:
1. Quality and originality in theory and methodology of the special issue.
2. Relevance to the topic of the special issue.
3. Application orientation which exhibits originality.
4. If there is an implementation, the details of the implementation must be provided.
5. Extended papers must contain at least 40% new material (qualitative) relative to the conference paper.

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Important Dates

Submission of papers: **31 March 2021**
Notification of review results: 30 April 2021
Submission of revised papers: 31 May 2021
Notification of final review results: 30 June 2021

Submit your paper

Submission of articles to *Materials Highlights* proceeds in an online environment only using the Editorial Manager online submission and peer review system. Instructions will be provided on screen and you will be stepwise guided through the process of uploading all the relevant article details and files associated with your submission. All manuscripts must be in the English language.

To access the online submission site for the journal, please visit https://www.editorialmanager.com/mathi/default.aspx. Note that if this is the first time that you submit to *Materials Highlights*, you need to register as a user of the system first.

NOTE: This journal requires all papers to be prepared as MS-Word or LaTeX files as this will give the best formatting results. Before submitting your paper, please make sure to review the journal's Author Guidelines first.

Introduction of the Guest Editor

Dr Bhaven Patel is currently a Senior Lecturer at the London Metropolitan University, UK. He received his PhD in Organic Chemistry from the University of Birmingham and has been a research fellow in the UK and Australia. His research themes include synthesis of small biological active molecules, method development in organic chemistry and the application of 3D printing in science.