



*materials*



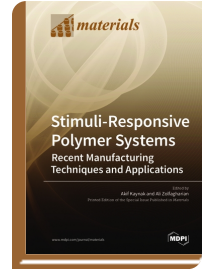
*Special Issue Reprint*

## **Stimuli-Responsive Polymer Systems—Recent Manufacturing Techniques and Applications**

[www.mdpi.com/books/reprint/1545](http://www.mdpi.com/books/reprint/1545)

Edited by  
Akif Kaynak  
Ali Zolfagharian

ISBN 978-3-03921-483-9 (Softback)  
ISBN 978-3-03921-484-6 (PDF)



Stimuli-responsive polymer systems can be defined as functional materials that show physical or chemical property changes in response to external stimuli such as temperature, radiation, chemical agents, pH, mechanical stress, and electric and magnetic fields. Recent developments in manufacturing techniques have facilitated the production of a wide range of stimuli-responsive polymer systems, such as micro- and nanoscale structures, with potential applications in soft sensors and actuators, smart textiles, soft robots, and artificial muscles. This book brings together the recent progress in manufacturing techniques, with particular emphasis on 3D and 4D printing and applications of stimuli-responsive polymer systems in biomedicine and soft robotics.



Order Your Print Copy  
You can order print copies at  
[www.mdpi.com/books/reprint/1545](http://www.mdpi.com/books/reprint/1545)

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



### **Open Access**

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



### **Author Focus**

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



### **High Quality & Rapid Publication**

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



### **High Visibility**

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



### **Print on Demand and Multiple Formats**

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.