



Special Issue Reprint

Additive Manufacturing of Advanced Composites

www.mdpi.com/books/reprint/9984

Edited by
Yuan Chen

ISBN 978-3-7258-2185-3 (Hardback)

ISBN 978-3-7258-2186-0 (PDF)



Advanced composites, e.g., continuous, or discontinuous fiber-reinforced composites, nanocomposites, etc., are attracting increasing attention in industrial applications due to excellent performance, i.e., high mechanical properties in terms of stiffness- and strength-to-weight ratios, when compared to their counterparts. As such, the development of advanced composites can fulfil many special but important engineering missions, such as safety improvement, weight reduction, energy-absorption enhancement, and so forth.. Meanwhile, additive manufacturing or 3D printing has undergone massive development, opening new horizons for manufacturing small-scale and complex composite structural parts that cannot be appropriately made using conventional techniques. In recent years, big advances have been witnessed in the additive manufacture of advanced composites with novel design, fabrication, and analysis methods, indicating a huge potential and a promising future for 3D-printed advanced composites. With these significant aims, this Special Issue is dedicated to the field of novel and engineering solutions in the additive manufacturing of advanced composite materials and structures. Briefly, the Special Issue has a particular, but not limited, focus on 3D-printed composites with respect to advanced design, manufacturing, and characterization for high-performance composite products by 3D printing

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.