

Special Issue

3D & 4D Printing in Engineering Applications, 2nd Edition

Message from the Guest Editors

Over the last 20 years, 3D printing has greatly evolved. This applies to both the development of new additive manufacturing technologies and the chemistry of the materials used, increasing the metrological accuracy of manufactured objects by improving the design of 3D printers and optimizing the mechanical and tribological properties of manufactured objects. Three-dimensional printing using new intelligent materials, often based on composites, innovative design, and technological solutions, has evolved into the new concept of 4D printing. This method takes into account another, fourth dimension—time. The shape or properties of a structure can be changed via the implementation of 4D printing. Four-dimensional printing is a kind of new manufacturing philosophy based on four-dimensional printing. The SI will publish innovative scientific research, review articles, and communications related to modern technologies of additive manufacturing and its materials, taking into account innovative tools that also fit into the realities of industrial transformation towards Industry 4.0.

Guest Editors

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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