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Recent Advances in 3D Printed Electronics

Guest Editor:

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Message from the Guest Editor

Three-dimensional (3D) printing has revolutionized manufacturing across various industries thanks to its unparalleled design freedom and customization capabilities. One of the most promising applications of 3D printing technology is in the field of electronics. Overall, 3D printing enables electronic fabrication with unconventional geometries and form factors, catering to specific application requirements. The versatility of 3D printed electronics transcends traditional manufacturing constraints, fostering innovation in diverse fields, from wearable sensors, displays, and IoT devices to biomedical implants. Despite these advancements, challenges such as material compatibility, resolution limitations, and process reliability still need to be overcome before widespread adoption can occur.

We solicit papers focusing on enhancing material (ink) properties, refining printing techniques, and developing novel design methodologies for 3D printed electronics. Advances in multi-material printing, in situ monitoring, and post processing techniques hold promise for overcoming current limitations and expanding the application scope of 3D printed electronics.

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Message from the Editor-in-Chief

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