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Editorial Note on Recent Development in Liquid Metal Materials

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Editorial Note

Over the last few decades, liquid metals (LM) have demonstrated a very broad development potential. This review article examines the most recent research on liquid metal materials and their applications in five key areas: stretchy conductive composites, intelligent sensing electronic skin, catalysis, 3D printing materials, and driving machines.

Stretchable liquid metal-polymer composites that can be employed as self-healing materials have been summarised in terms of fabrication, specific qualities, and application. The technologies of liquid metal deposition printing, liquid phase 3D printing, suspension 3D printing, micro-contact printing, and in vivo 3D printing moulding have also been examined.

The use of a liquid metal catalyst in the aldehyde reaction, photocatalysis, and electrocatalysis has also been studied. Electricity, magnetism, sound, light, and heat have all been found

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to trigger the flow of liquid metal. The primary practical use, development, and mechanism of liquid metal were summarised and discussed in this comprehensive summary of recent research. The future growth of liquid metal technology was forecasted, giving a solid foundation for the development of LM materials and their applications.