

# ADVANCED FUNCTIONAL MATERIALS

## BONE COMPOSITES

In article number 2002438, Xiaochun Bai, Zhihui Lu, Jian Yang, and co-workers, strategically use multi-functional tannin to bridge inorganic and organic phases of composite materials in orthopedic biomaterial design. By adhering to the inorganic phase, hydroxyapatite, and chemically reacting with the organic phase, citrate-based polymers using tannin, the citrate-based tannin-bridged bone composites present greatly improved compression strengths, significant antimicrobial properties, and enhanced biomineralization and osteoconductivity for in vivo lumbar fusion.

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Organic

HA

Inorganic