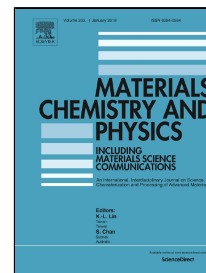


# Accepted Manuscript

Preparation and characterization of a biocompatible magnetic scaffold for biomedical engineering

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- A novel scaffold as bone replacement and drug delivery device has been fabricated.
- $\text{Fe}_3\text{O}_4$  nanoparticles were doped in GEL/HA 3D nanocomposite scaffold.
- The scaffolds had a mechanical strength in the range of trabecular bone tissue.
- The scaffolds had a potential of anti-cancer drug loading.
- The scaffolds can be used for the treatment of bone cancer.

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