

# 1 P X E F S . F U B M M V S H Z # B T F E 1 P S P V T . F U B M # J P

Jiunn-Der Liao\*, Han Lee and Chih-Kai Yao

Department of Materials Science and Engineering and Medical Device Innovation Center, National Cheng Kung University; No. 1, University Road, Tainan 70101, Taiwan

Powder metallurgy (P/M) as a fabrication technique involdeformation among compacted particles occurs. For metallic powde with high melting temperatures, they are di cult to be melted or casted.

With the intended use of multiple binders, P/M on the binders-mixed powders, followed by a heat treatment is competent to produce shaped pieces with required properties. Furthermore the metal injection molding (MIM) technique can be applied for fast production on the pieces with multifaceted designs.

On the other hand, P/M sintered porous metal material can be made of metallic powders with the inclusion of binders and spacers and produced through pressing, additives removal, and high-temperature sintering processes. With the expected properties such as high strength, rigid structure, good and uniform permeability, and high thermal and corrosion resistance, P/M sintered porous metal products are possibly utilized in various elds such as petrochemical, chemical, metallurgical, power and electrical, environmental, pharmaceutical, and aeronautical industries.

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\*Corresponding author: Jiunn-Der Liao, Department of Materials Science and Engineering and Medical Device Innovation Center, National Cheng Kung University; No. 1, University Road, Tainan 70101, Taiwan, E-mail: [jdliao@mail.ncku.edu.tw](mailto:jdliao@mail.ncku.edu.tw)

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