

平成30年度 公益社団法人 応用物理学会 北陸・信越支部 講演会

入場
無料

日時 平成30年7月3日(火) 12:55～14:25

場所 新潟大学 総合研究棟(物質・生産系)

161演習室 (新潟市西区五十嵐2の町8050)

演題 Fabrication of complex metal
micro/nanostructures

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講演内容:

Unlike bulk materials, the distinctive chemical and physical properties of metal nanoparticles enable various applications benefiting mankind. Due to size- and shape-dependent properties, the structural-controlled synthesis of metal nanoparticles has been extensively investigated by scientists for decades. Various shapes/morphologies, such as spheres, plates, tubes, wires, fibers etc., of metal nanoparticles have been selectively produced. Our research group has studied the fabrication of noble metal nanoparticles, included, gold, silver, platinum, and palladium, for a long time. The structural-controlled synthesis of metal nanostructures based on chemical approaches has been developed to selectively tune size and shape of metal nanoparticles. Moreover, the recent study of structural assembly of nanoparticles to become complex micro-architectures are reviewed.

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