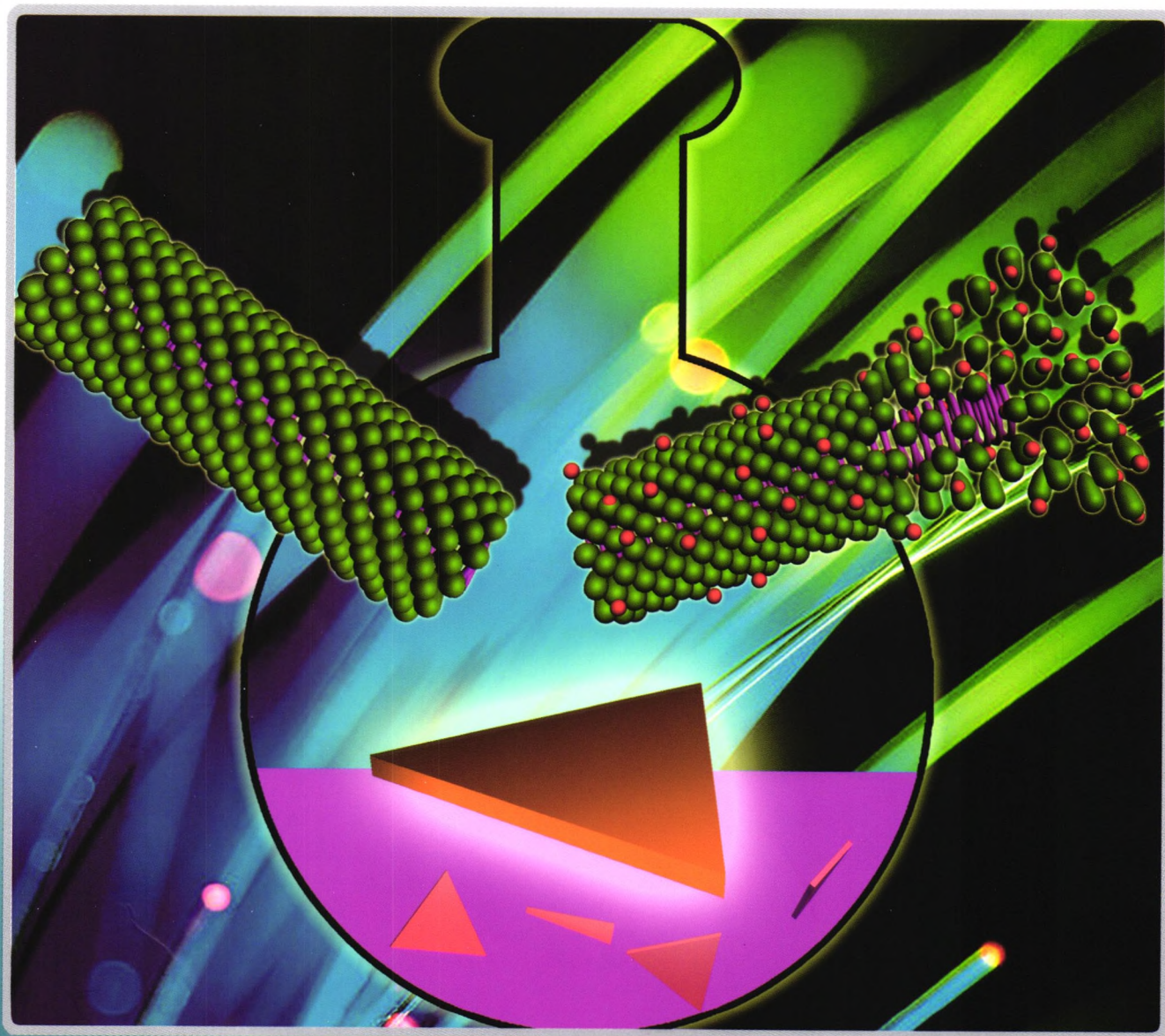


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(Yingxiang Kexue yu Guanghuaxue)

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封面说明:由于表面等离子共振效应,不同形貌和尺寸的金纳米颗粒具有各自独特的光学性能。封面文章利用碱处理烟草花叶病毒所得生物质的生物还原性和辅助结构导向作用,在室温下以水为溶剂直接还原氯金酸制备出三角形金纳米片。该材料在可见光区有两个等离子共振吸收峰,在感光成像、生物检测和催化等领域具有很好的应用前景。见本期论文(张百慧等,烟草花叶病毒介导合成三角形金纳米片),p157~162。

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本刊刊登以下研究领域的创新成果:光化学、影像科学与技术、光电化学及光电子技术(包括光电转换及储存材料、电光材料、非线性光学材料、纳米材料、电致发光材料及器件)、信息科学及信息材料(包括遥感、信息存储和记录、图像信息处理、信息显示材料等)、光生物、光医学、环境光化学等。

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