

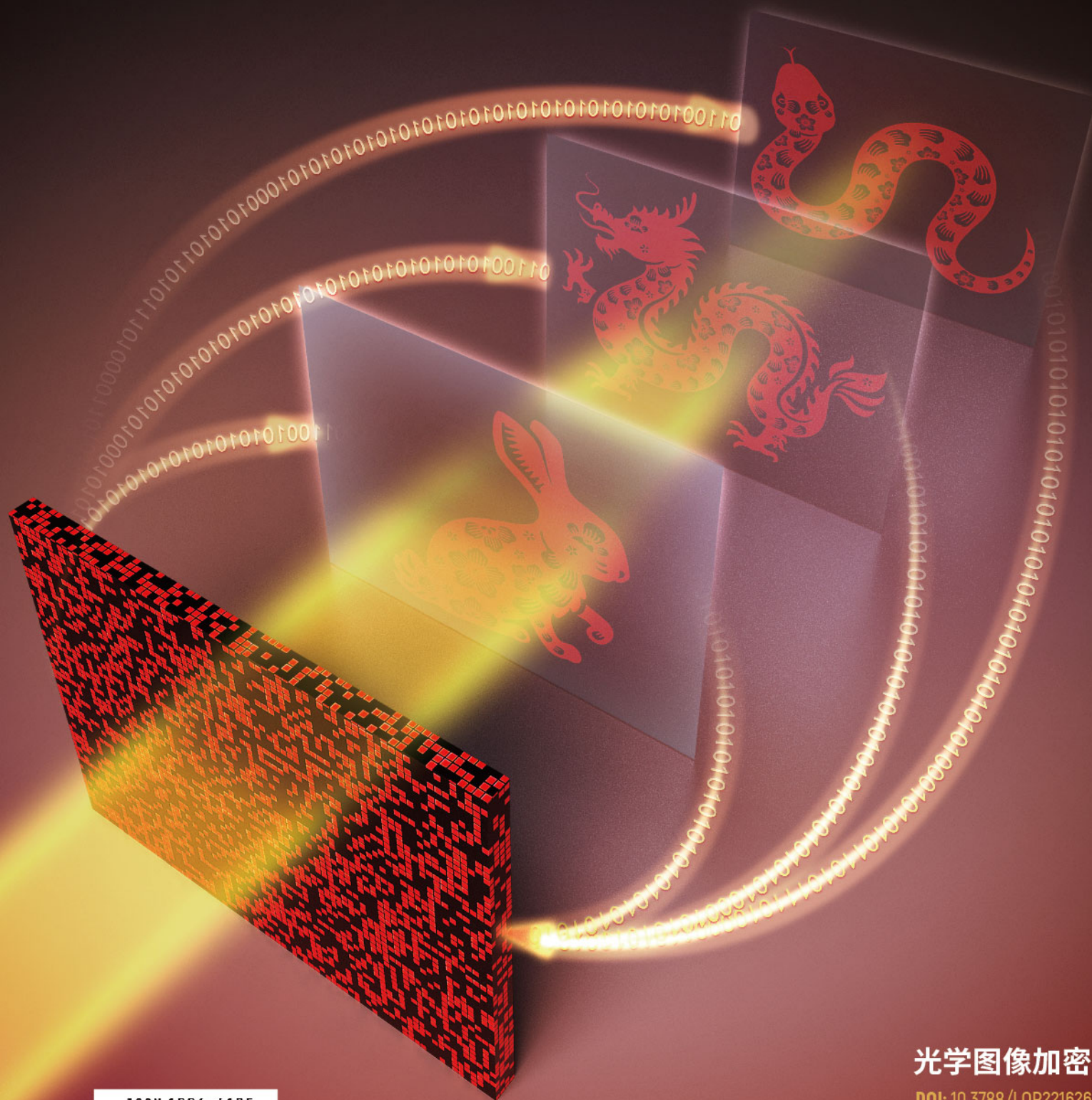
# 激光与光电子学进展

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中国科学院上海光学精密机械研究所 主办

# 激光与光电子学进展

## —— 先进成像 ——

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## 封面解读

本期封面展示了基于迭代相位恢复算法的光学图像压缩加密和解密。

“月影通廊,那回相见加密”——“兔”、“龙”、“蛇”三幅不同的明文图像经过迭代相位恢复算法处理后变得“面目全非”从而成为密文(以红黑像素相间的纯相位板示意),加密后的信息在传输过程中的安全性大大提高。

“碧云何际,照那人颜色”——用单色相干光垂直照射该相位板,可在后面三个具有不同轴向距离的位置分别得到这些明文图像的重建像。

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