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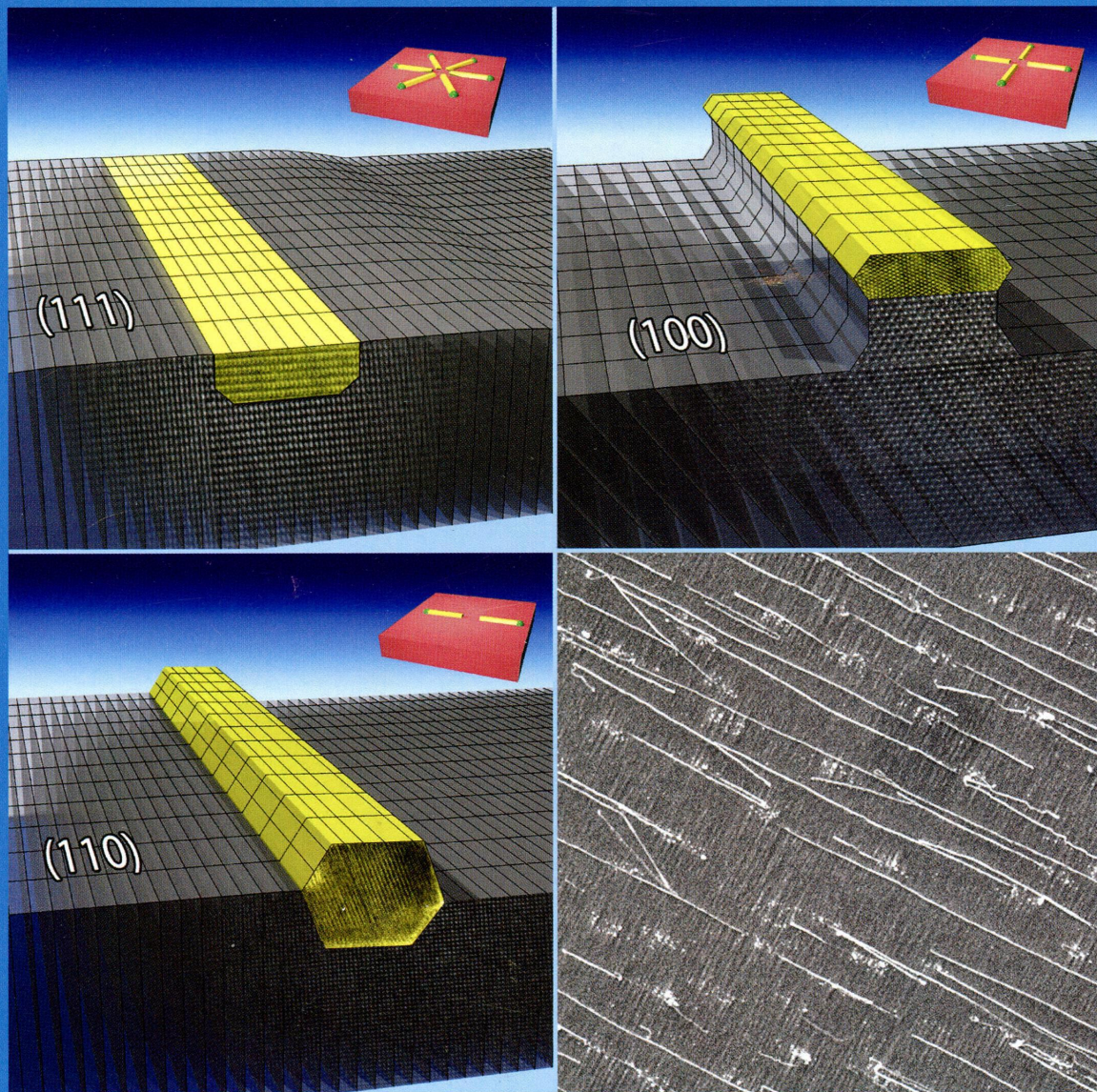
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Guided Growth of
Horizontal GaN
Nanowires on Spinel
Substrates with Three
Different Orientations
(see page 19158)



ENERGY CONVERSION AND STORAGE, OPTICAL AND ELECTRONIC DEVICES,
INTERFACES, NANOMATERIALS, AND HARD MATTER



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ON THE COVER: Guided growth of horizontal GaN nanowires on spinel substrates with three different orientations. GaN nanowires grow horizontally on three planes of spinel (MgAl_2O_4), guided by the surface. Their growth directions are controlled by the interaction with the substrate; therefore, they grow in three different geometries, which reflect the symmetry of each substrate: triangular (top right), square (top left), and linear (bottom right). The substrate is mobilized during the growth, either climbing up (top left, bottom left) or receding (top right) on/under one or two sides of the nanowire, depending on the substrate orientation. Bottom right: SEM top-view image of GaN nanowires grown on a MgAl_2O_4 (110) substrate. See page 19158.

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Electrodiffusioosmosis in a Solid-State Nanopore Connecting Two Large Reservoirs: Optimum Pore Size

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