

## Device applications of anodic aluminum oxide nano-template

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Novel ideas for nano-devices based on AAO nano-template are presented. High purity aluminum specimens were anodized twice to obtain well-ordered nano-channel arrays. Similar structured were also obtained from the thin aluminum layers deposited on the silicon wafers. These specimens were used for the fabrication of CNT field emitters for flat panel displays, ultra-high density CNT transistors, micro-cantilever arrays with the help of photolithography, mold for the nano-imprint lithography, and nano-vacuum tube arrays.