The Nano Frontier: Where Sciences Meess the impossible 异种技大學機械工程系 助理教授 楊凱琳博士

當全層材料達到条米

金太合金 極為堅固又無比輕

Titanium Advantage

Resistance to corrosion

High Strength

High melting point

Non-toxic Low thermal expansion possibility Excellent fabrication possibility

Light in Weight

Hall-Petch Equation

当材料精度越大,韌性本該越好 也達微米就已經瓶頸 Technology node

l-listorically, the process node name referred to a number of different features of a transistor including the gate length. Technology node is the width of line that can be processed with a minimum width. No longer length of transistor is critical at 22nm, 14nm, long and 7nm

On 22nm, smaller node = smaller transistor