Economic Considerations for ALD Precursor Selection

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While semiconductor chip makers’ scaling down competition continues and new types of semiconductor devices were introduced in the industry, there has always been a need of new materials. Although new materials have been studied and evaluated by academic and R&D parties for a long time, it was not easy for chip makers to adopt them in their production due to various reasons such as high cost, reliability, unknown and hidden issues, or overcoming by a different technology.

This will show what kind of ideas makes us hesitate to choose new materials and how biased we are on the ideas. When materials’ selling price is decided, it was considered with many various factors as investment amount and its withdraw, complication of production and process, raw material price, competition status, margin, market demand, and etc. we can review these contribution factors and think of how we can smartly cope with the situation for overall industry growth.
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