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*This is a list of*  
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*processing techniques that are employed numerous times throughout the construction of a modern electronic device; this list does not necessarily imply a specific order. Equipment for carrying out these processes is made*



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by a handful of companies. All equipment needs to be tested before a semiconductor fabrication plant is started.

[Semiconductor device fabrication - Wikipedia](#)

## 1.1 Semiconductor Fabrication

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*Processes Starting with an uniformly doped silicon wafer, the fabrication of integrated circuits (IC's) needs hundreds of sequential process steps. The most important process steps used in the semiconductor fabrication are []:*

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## 1.1.1 Lithography

### [1.1 Semiconductor Fabrication Processes](#)

A semiconductor material has an electrical conductivity value falling between that of a conductor, such as metallic copper, and an

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*insulator, such as glass. Its resistivity falls as its temperature rises; metals behave in the opposite way. Its conducting properties may be altered in useful ways by introducing impurities ("doping") into the crystal structure.*

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*J.H. Wang, in  
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Applications, 2012*

*5.6.1 Plasma  
etching. Plasma  
etching is one of  
the main  
applications of  
plasma treatment*

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*and the plasma system (known as a 'plasma etcher') is commonly used in production of semiconductor devices. During plasma etching, the highly energetic and reactive species produced from a selected process gas, such as  $O_2$  or*

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[Plasma Etching - an  
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Wafer fabrication is  
a procedure  
composed of many  
repeated  
sequential  
processes to

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*produce complete electrical or photonic circuits on semiconductor wafers.*

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*Recipes for Plasma Enhanced Chemical Vapor Deposition of*



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*silicon nitride, silicon dioxide, amorphous silicon, and silicon oxynitride. PVD Metal Deposition. Information on different methods of metal deposition including E-beam evaporation, thermal filament evaporation, and sputtering.*

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*FAB, fast atom*

*bombardment*

*FACS, fast access*

*to critical solutions*

*... LDMOS, laterally*

*diffused metal*

*oxide*

*semiconductor*

*LDP, low density*

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*plasma LDPE, low  
density*

*polyethylene LDS,  
liquid delivery*

*system ... MBP,  
materials and bulk  
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*integrated circuit fabrication can be divided into two steps. The first, wafer fabrication, is the extremely sophisticated and intricate process of manufacturing the silicon chip.*

[Introduction to Semiconductor Technology ...](#)

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*In most of these applications, this plasma machine is usually called a plasma, ion, or free radical source, and consists of (1) the matching circuit, (2) the applicator, and (3) the discharge; i.e., in Fig. 3, a plasma source is defined by the systems*

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*above the  $z = 0$  plane. Both high pressure and low pressure applications exist for microwave ...*

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*The fabrication of an integrated circuit (IC) requires a variety of physical and chemical processes performed on a semiconductor (e.g., silicon) substrate. In general, the various processes used to make an IC fall into three*

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categories: film deposition, patterning, and semiconductor doping.

[Semiconductor Lithography \(Photolithography\) - The Basic ...](#)

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high energy  
density plasma*

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computing Ali  
Mosleh Reliability  
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physics of failure  
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*Fabrication of  
GaN/Diamond  
Heterointerface  
and Interfacial  
Chemical Bonding*

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*State for Highly  
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*Design. Advanced  
Materials, 2021;*

*2104564 DOI: 10.1  
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*range of ozone generators and modular delivery systems which produce ultra-pure, reliable ozone gas. In the clean semiconductor environment, Ozone reacts with a wide range of precursor gases resulting in the creation of Al<sub>2</sub>O<sub>3</sub>,*

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ZrO<sub>2</sub>, HfO<sub>2</sub>, and La<sub>2</sub>O<sub>3</sub> metal oxides to enable thin film deposition processes like Atomic Layer Deposition (ALD) and Etch (ALE).

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systems in 915MHz  
and 2450MHz that  
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consumers may be  
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much more heavily  
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*Hydrogen, mixed  
with nitrogen, is  
used for metal heat  
treatment. Heat  
treatment is a  
sequence of  
heating operations  
applied to metals -*

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*sheets, tubes, wires or parts - to improve their mechanical properties, by modifying their structure or composition.*

*Hydrogen is also used in mixtures for arc or plasma welding of stainless steels. Metal*

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