

Herstellung eines CMOS-Inverters im Doppelwannen-Prozeß



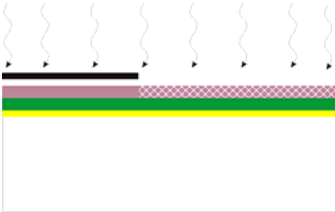
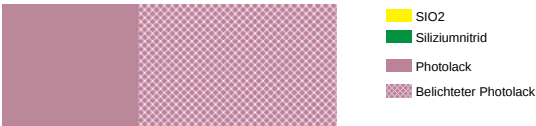
Siliziumnitrid abscheiden



Photolack abscheiden



Photolack belichten

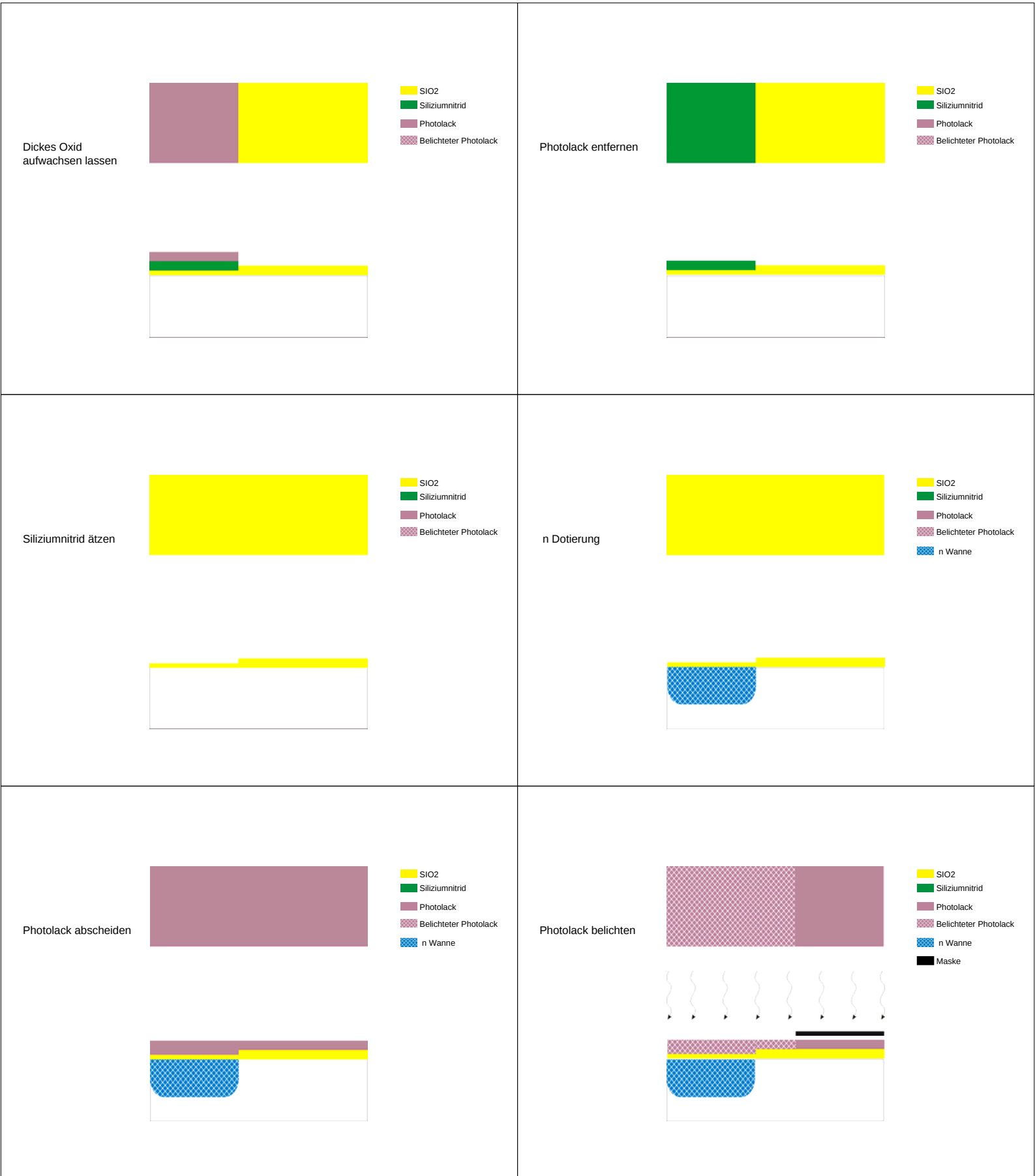


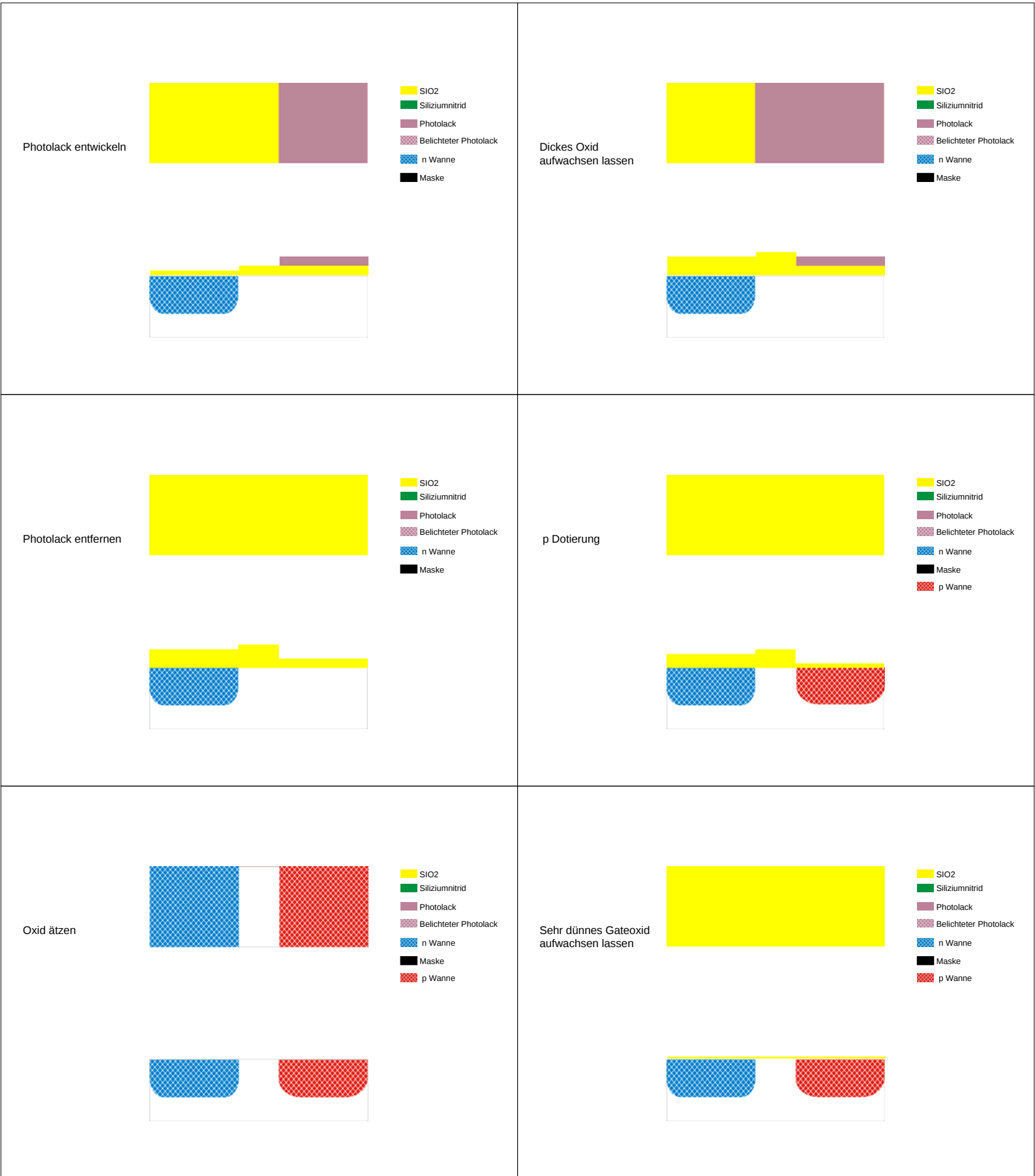
Photolack entwickeln

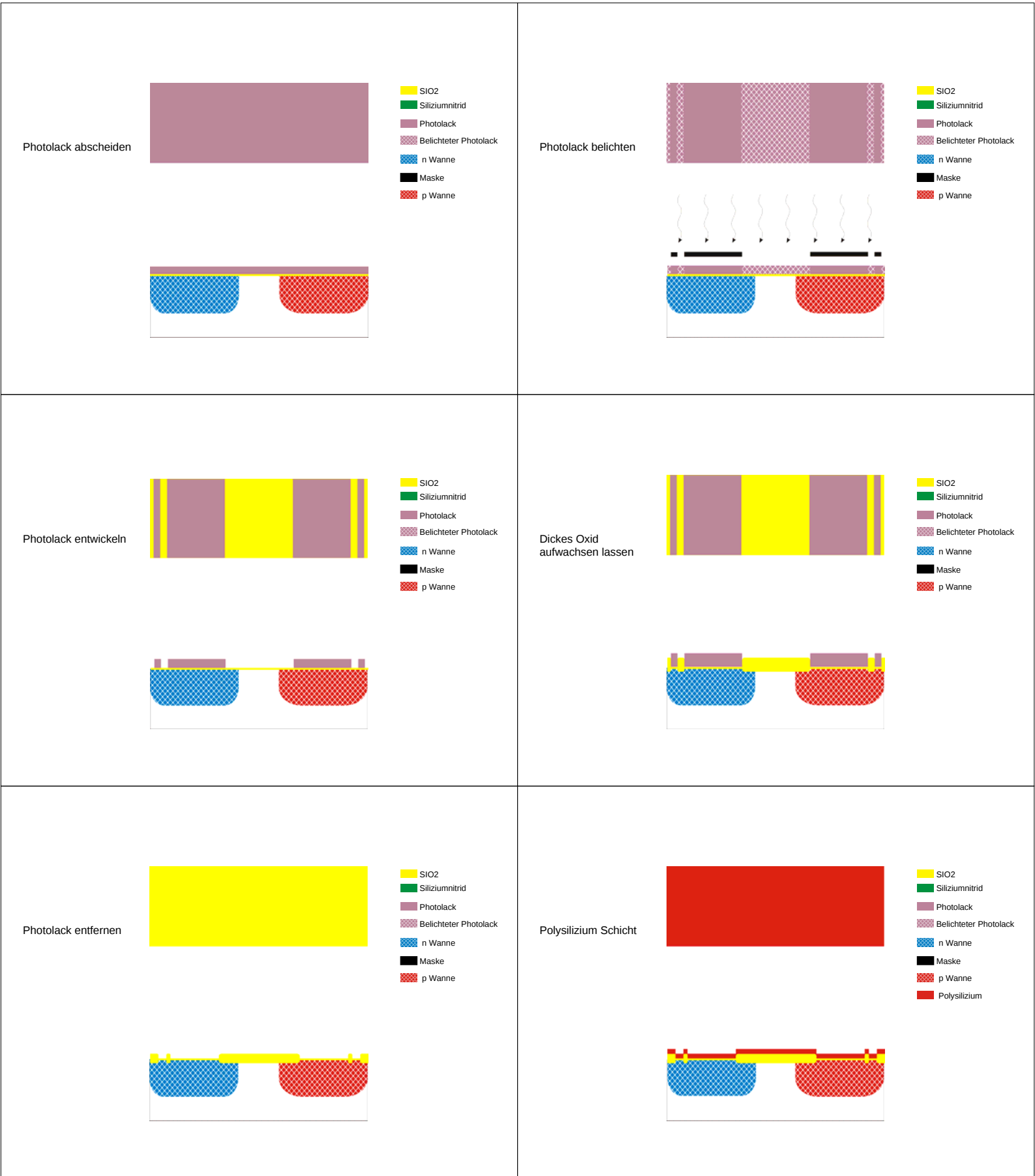


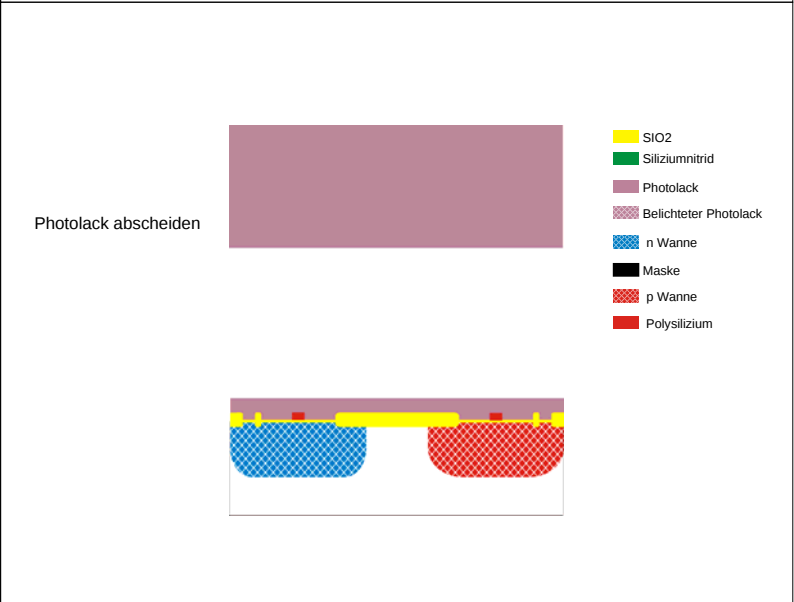
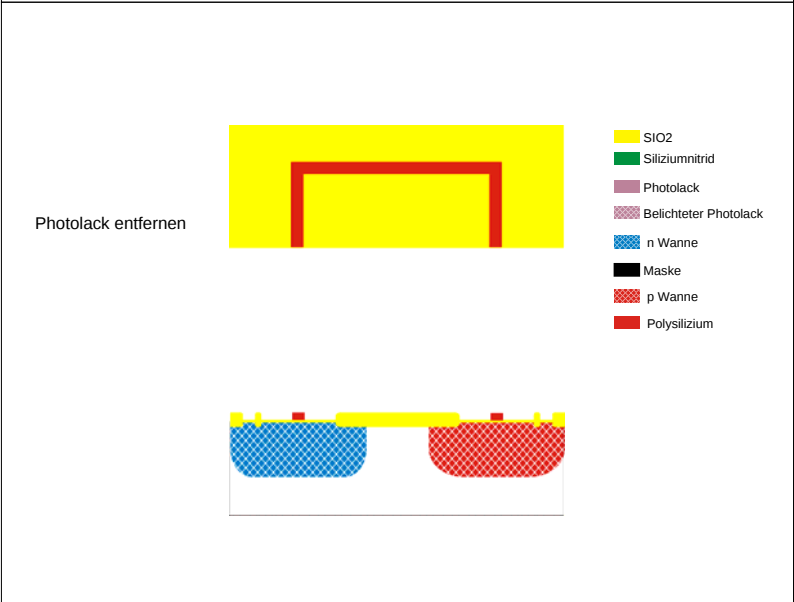
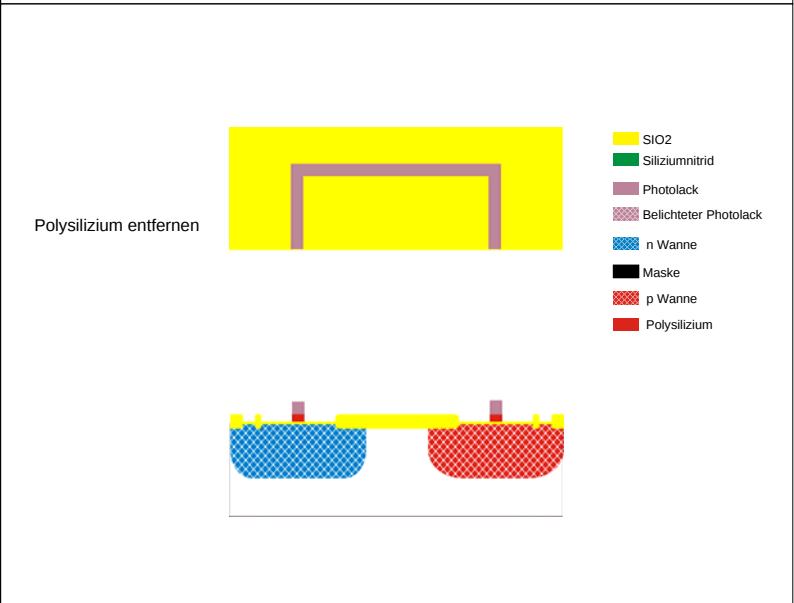
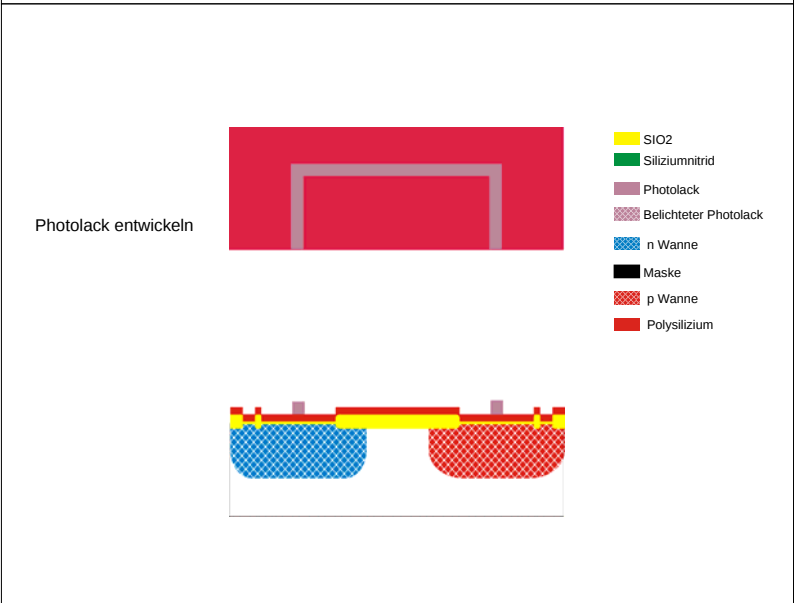
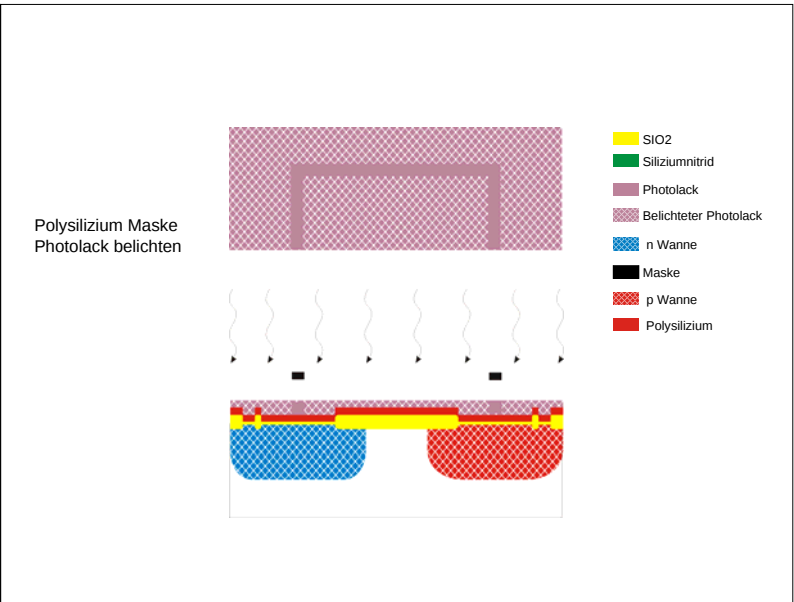
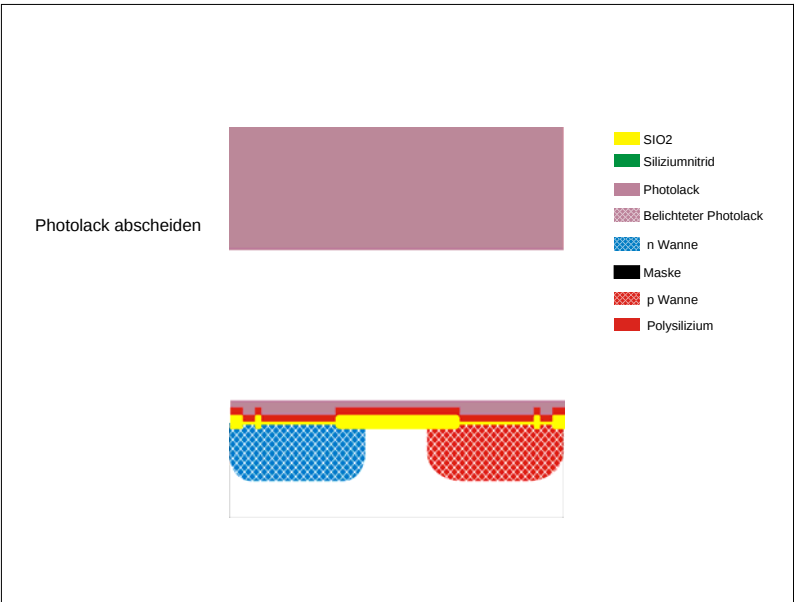
Siliziumnitrid ätzen



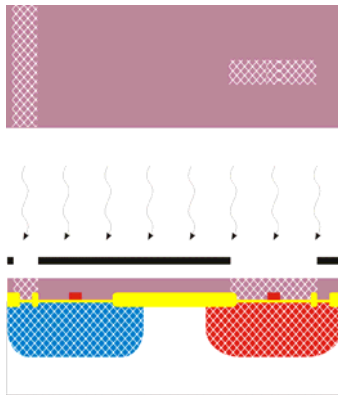






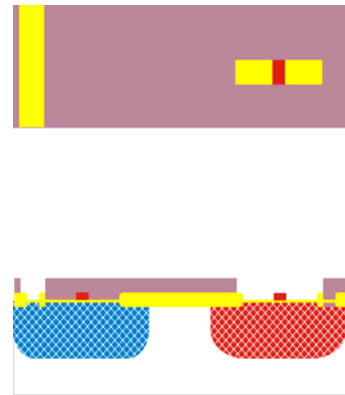


Photolack belichten



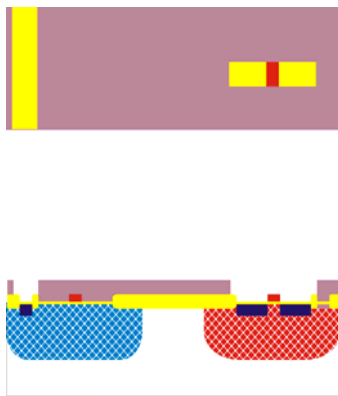
- SiO₂
- Siliziumnitrid
- Photolack
- Belichteter Photolack
- n Wanne
- Maske
- p Wanne
- Polysilizium

Photolack entwickeln



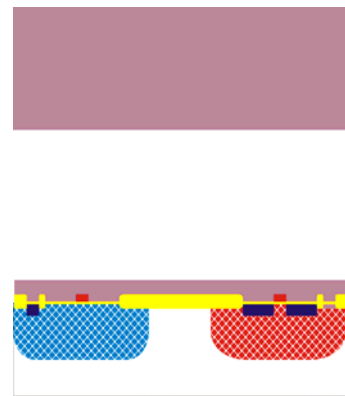
- SiO₂
- Siliziumnitrid
- Photolack
- Belichteter Photolack
- n Wanne
- Maske
- p Wanne
- Polysilizium

n+ Dotierung



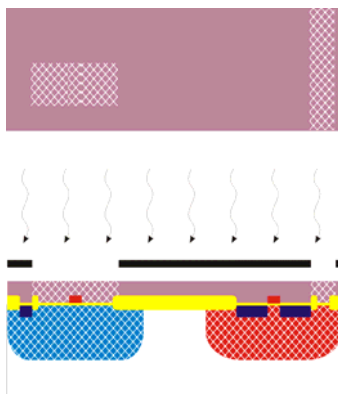
- SiO₂
- Siliziumnitrid
- Photolack
- Belichteter Photolack
- n Wanne
- Maske
- p Wanne
- Polysilizium
- n+ Dotierung

Photolack entfernen,
neuen Photolack
abscheiden



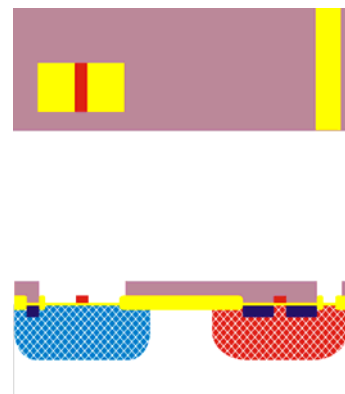
- SiO₂
- Siliziumnitrid
- Photolack
- Belichteter Photolack
- n Wanne
- Maske
- p Wanne
- Polysilizium
- n+ Dotierung

Photolack belichten



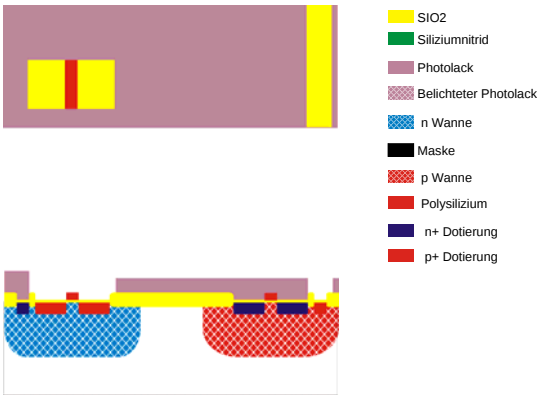
- SiO₂
- Siliziumnitrid
- Photolack
- Belichteter Photolack
- n Wanne
- Maske
- p Wanne
- Polysilizium
- n+ Dotierung

Photolack entwickeln

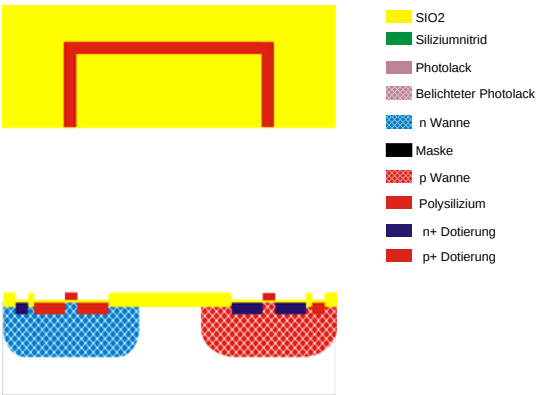


- SiO₂
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- n Wanne
- Maske
- p Wanne
- Polysilizium
- n+ Dotierung

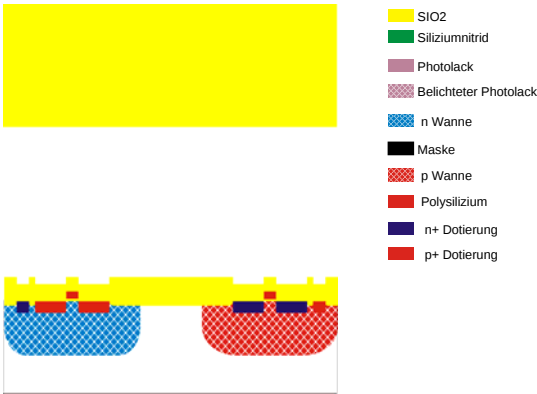
p+ Dotierung



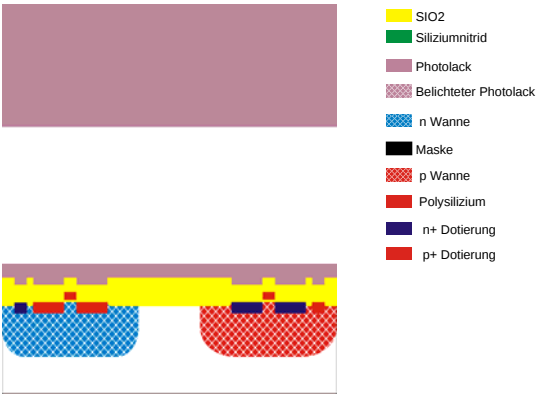
Photolack entfernen



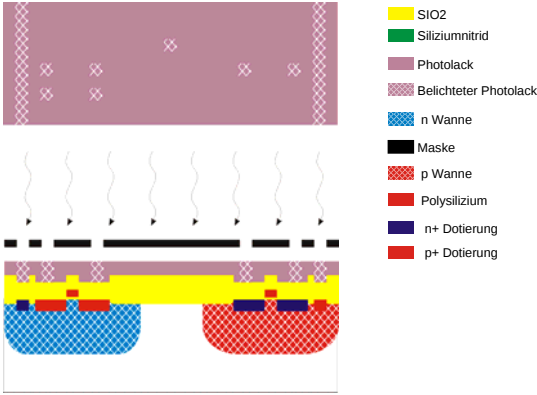
Dickes Oxid aufwachsen lassen



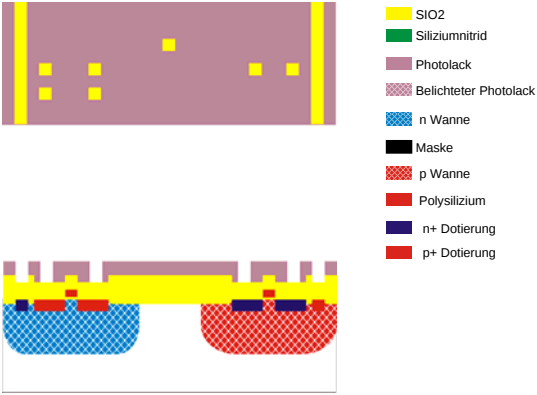
Photolack abscheiden

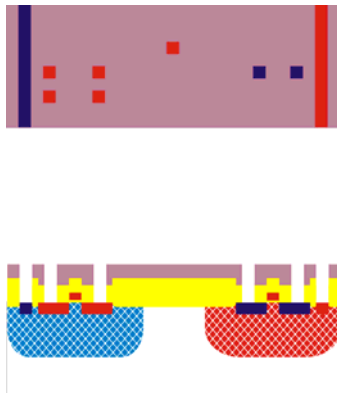


Photolack belichten mit Kontakt Maske



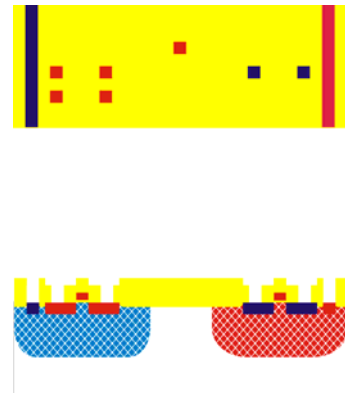
Photolack entwickeln



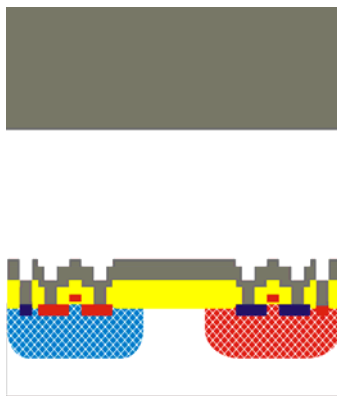
Übertragung auf SiO₂

- SiO₂
- Siliziumnitrid
- Photolack
- Belichteter Photolack
- n Wanne
- Maske
- p Wanne
- Polysilizium
- n+ Dotierung
- p+ Dotierung

Photolack entfernen

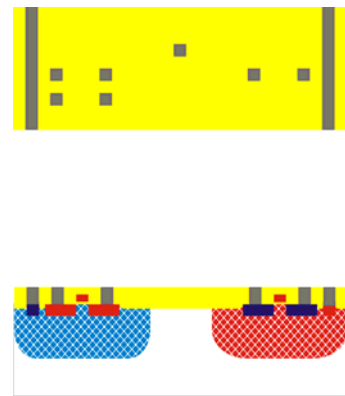


- SiO₂
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- Belichteter Photolack
- n Wanne
- Maske
- p Wanne
- Polysilizium
- n+ Dotierung
- p+ Dotierung

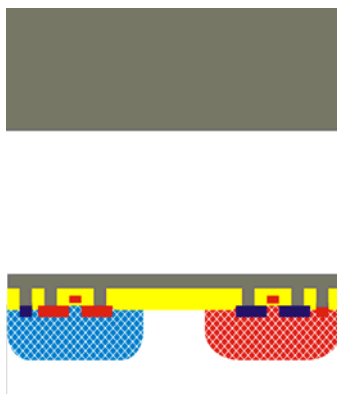
Aluminium
Metall Schicht

- SiO₂
- Siliziumnitrid
- Photolack
- Belichteter Photolack
- n Wanne
- Maske
- p Wanne
- Polysilizium
- n+ Dotierung
- p+ Dotierung
- Aluminium

Metall entfernen

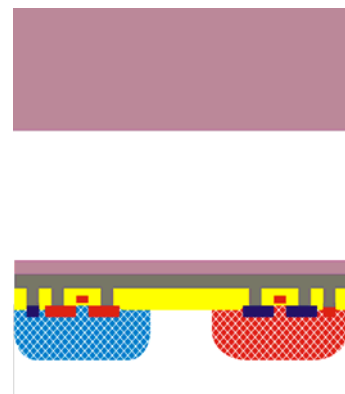


- SiO₂
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- n Wanne
- Maske
- p Wanne
- Polysilizium
- n+ Dotierung
- p+ Dotierung
- Aluminium

Aluminium
Metall Schicht

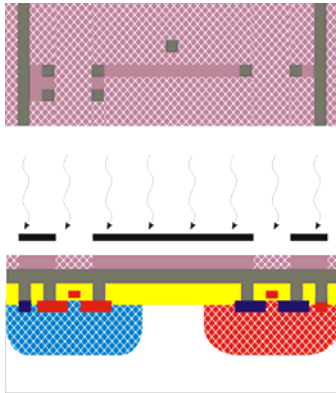
- SiO₂
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- Photolack
- Belichteter Photolack
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- Maske
- p Wanne
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- n+ Dotierung
- p+ Dotierung
- Aluminium

Photolack abscheiden



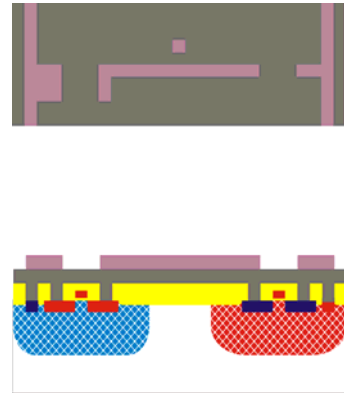
- SiO₂
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- p+ Dotierung
- Aluminium

Photolack belichten



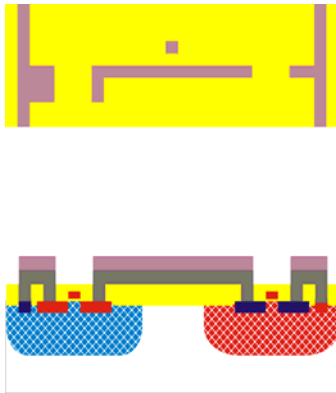
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- Aluminium

Photolack entwickeln



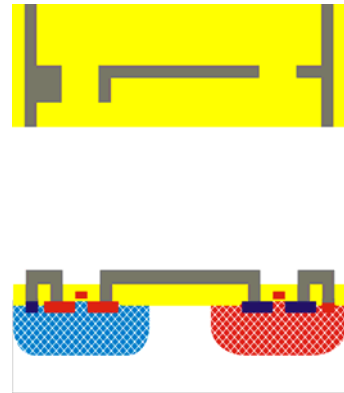
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- Aluminium

Metall entfernen



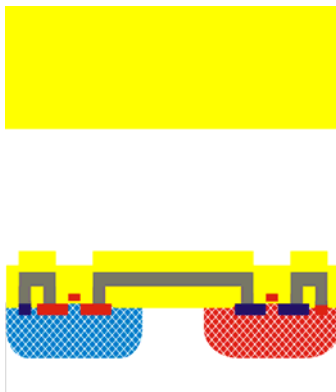
- SiO₂
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- Maske
- p Wanne
- Polysilizium
- n+ Dotierung
- p+ Dotierung
- Aluminium

Photolack entfernen



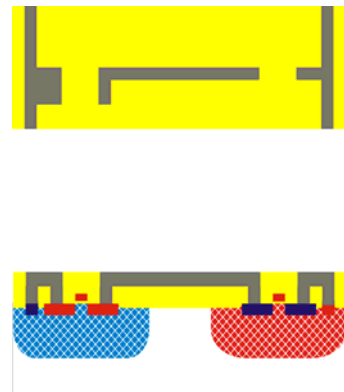
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- n+ Dotierung
- p+ Dotierung
- Aluminium

Dickes Oxid
aufwachsen lassen

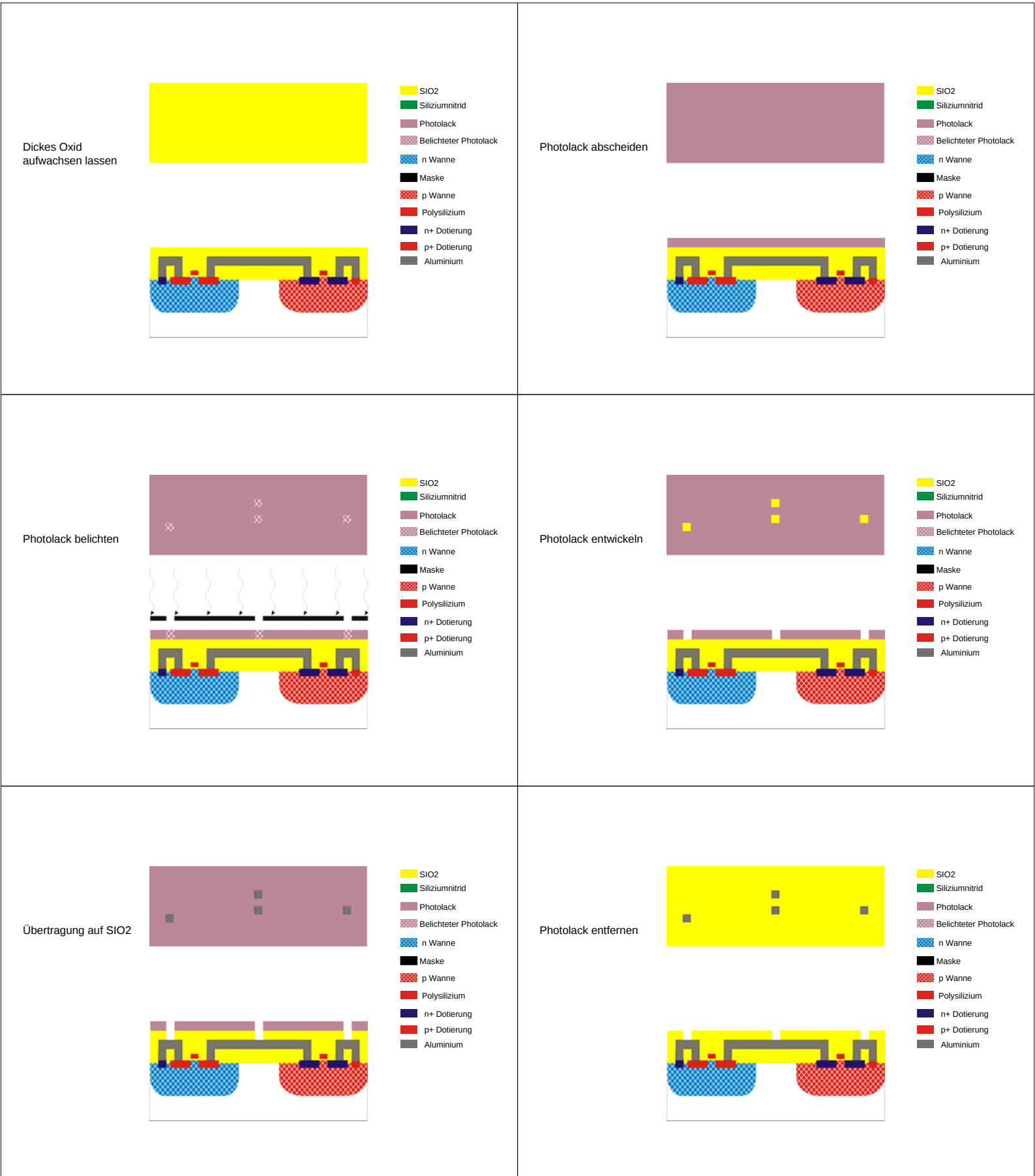


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- p Wanne
- Polysilizium
- n+ Dotierung
- p+ Dotierung
- Aluminium

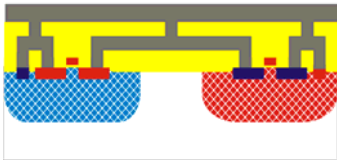
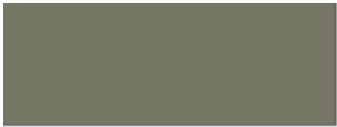
Oxid ätzen



- SiO₂
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- Photolack
- Belichteter Photolack
- n Wanne
- Maske
- p Wanne
- Polysilizium
- n+ Dotierung
- p+ Dotierung
- Aluminium

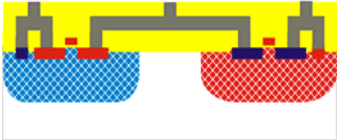


Metall Schicht



- SiO2
- Siliziumnitrid
- Photolack
- Belichteter Photolack
- n Wanne
- Maske
- p Wanne
- Polysilizium
- n+ Dotierung
- p+ Dotierung
- Aluminium

Metall entfernen



- SiO2
- Siliziumnitrid
- Photolack
- Belichteter Photolack
- n Wanne
- Maske
- p Wanne
- Polysilizium
- n+ Dotierung
- p+ Dotierung
- Aluminium