



Figure 1A

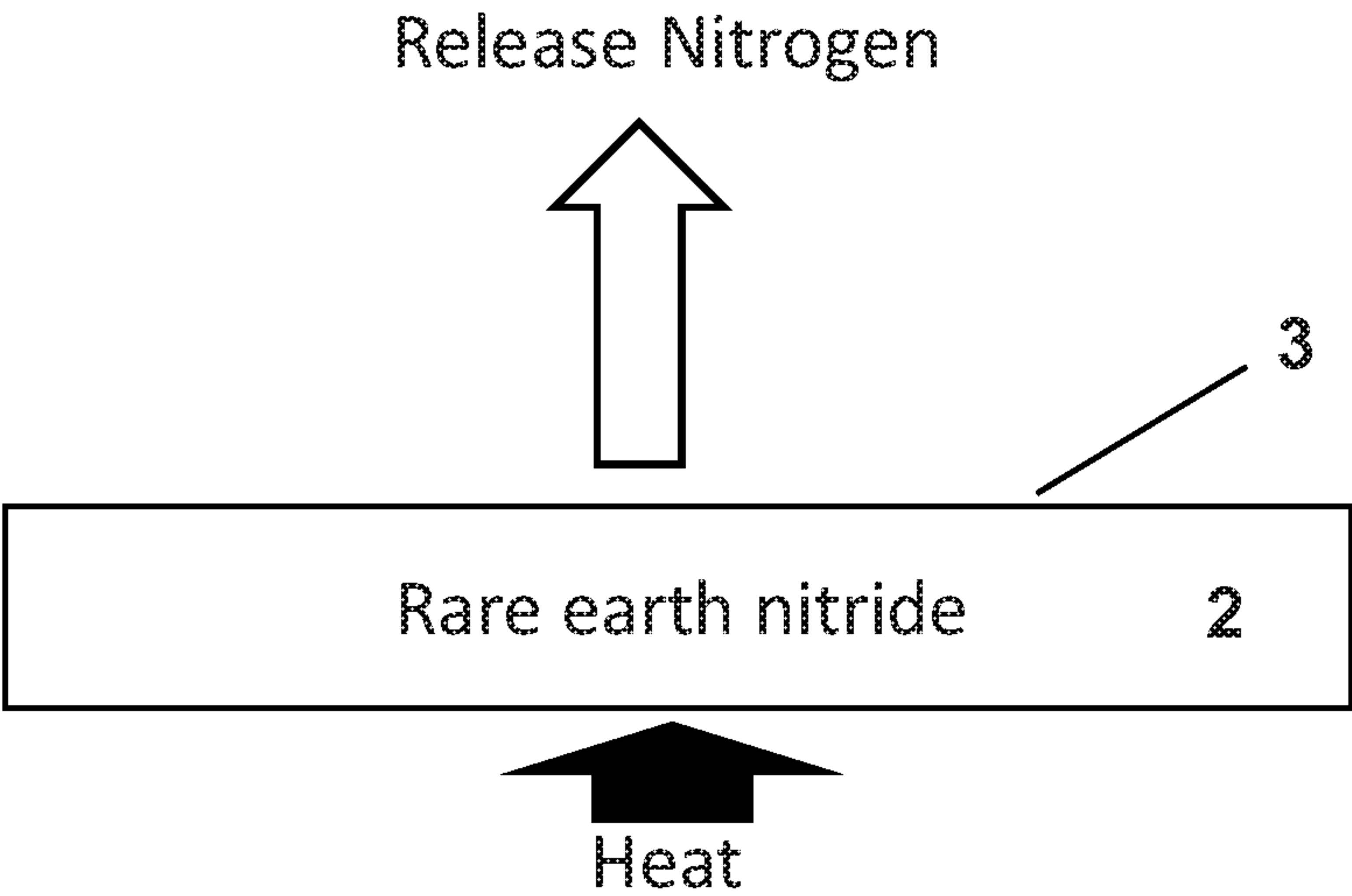


Figure 1B

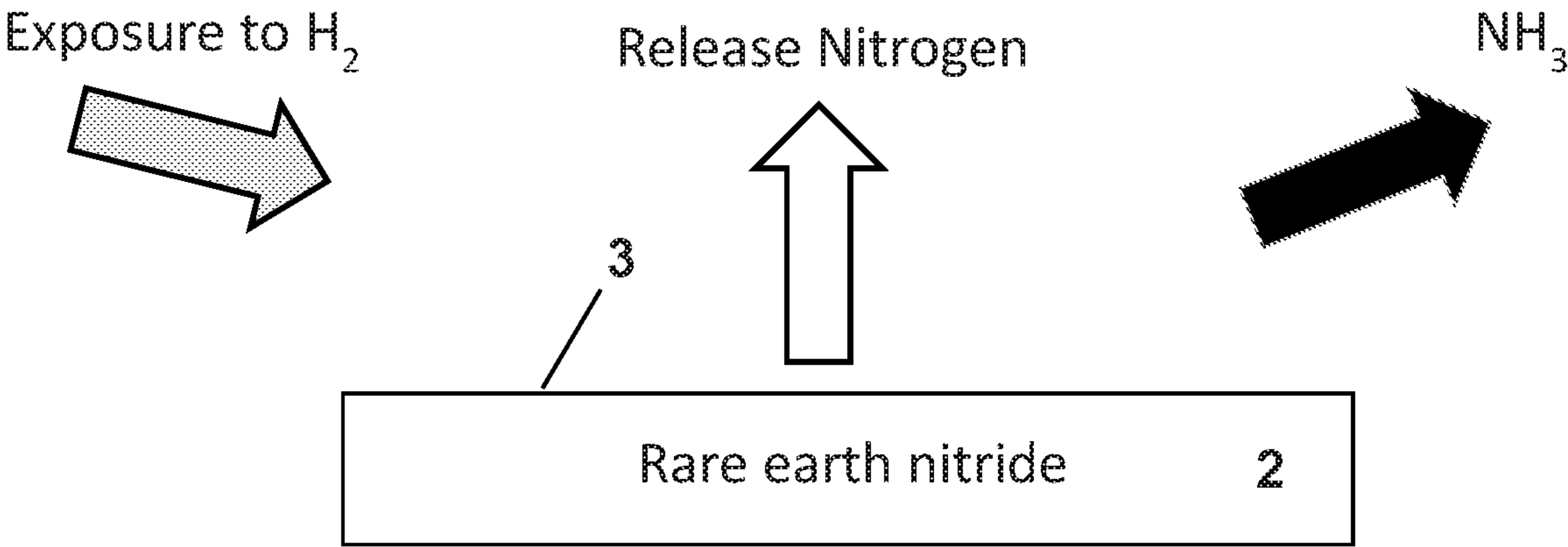


Figure 1C

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Exposure to N₂

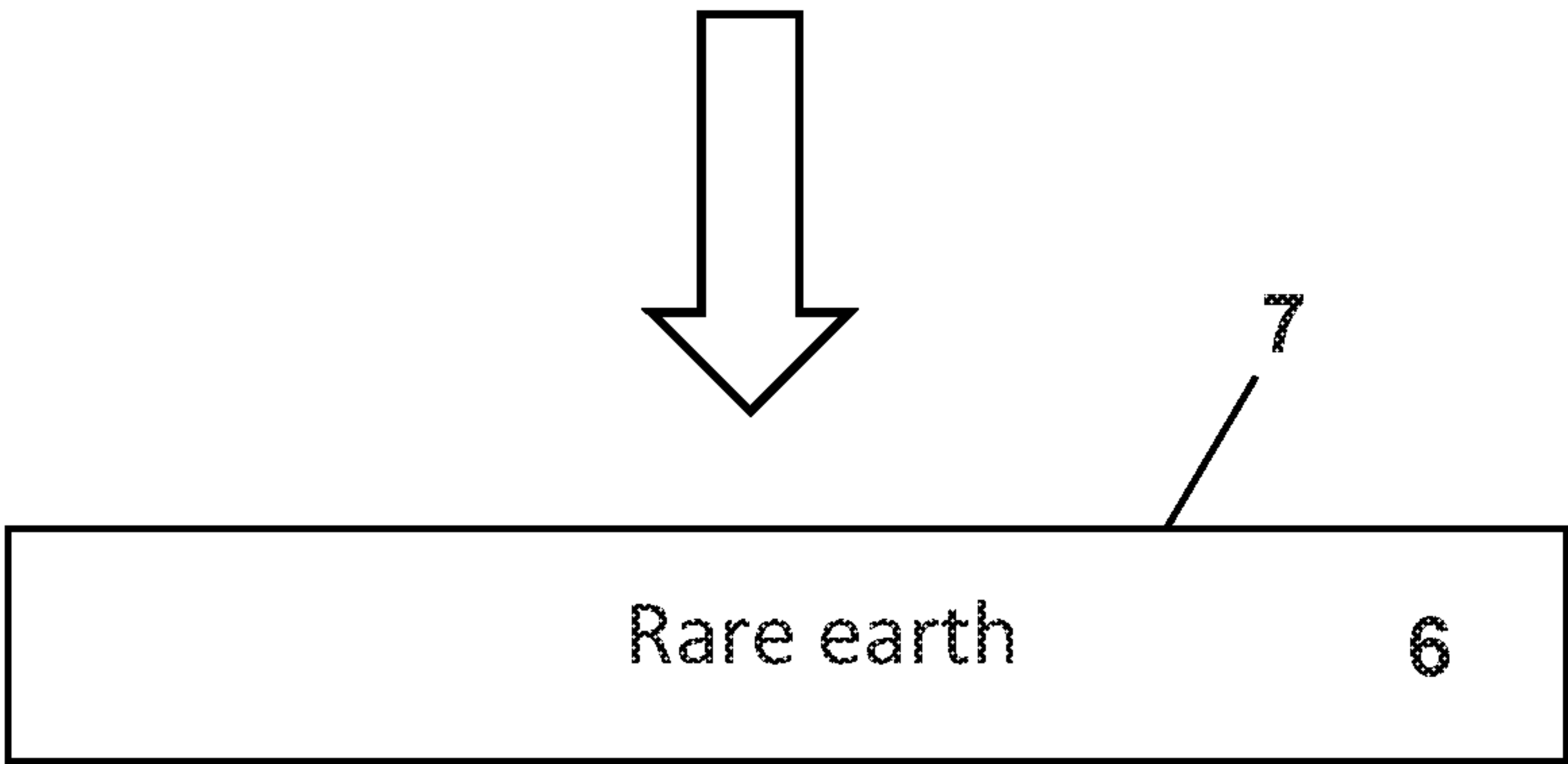


Figure 2A

Exposure to rare earth element

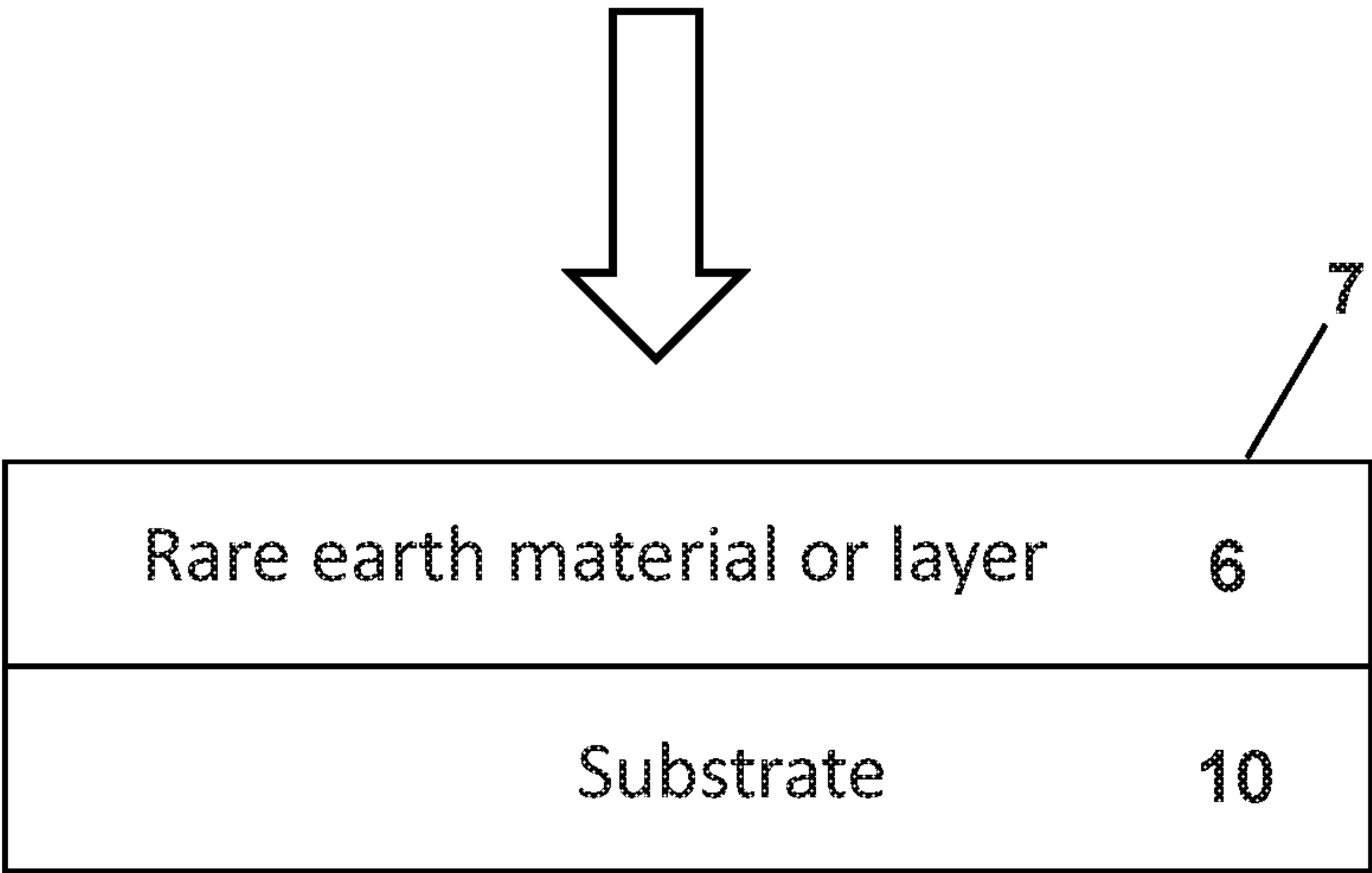


Figure 2B

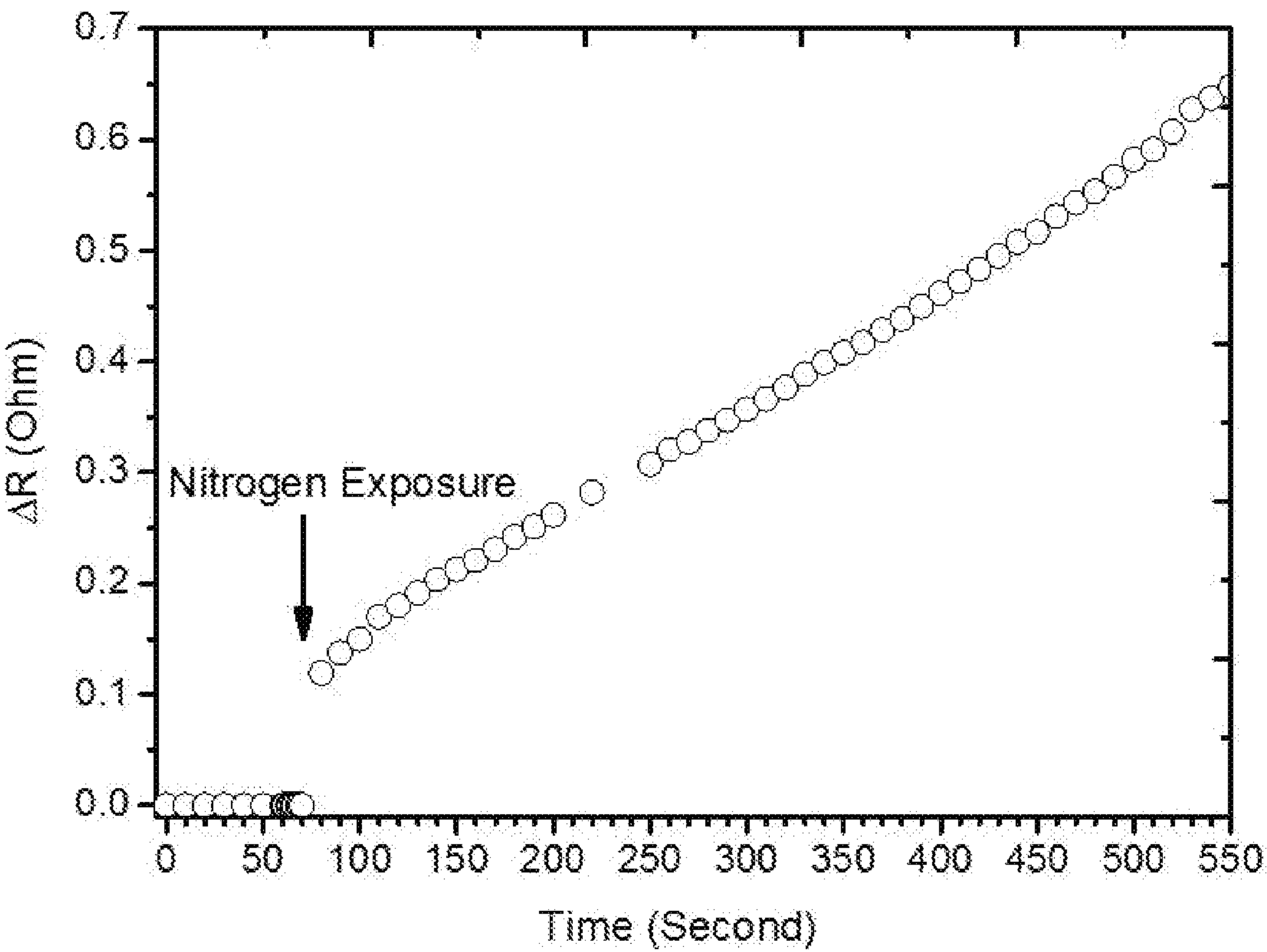


Figure 3

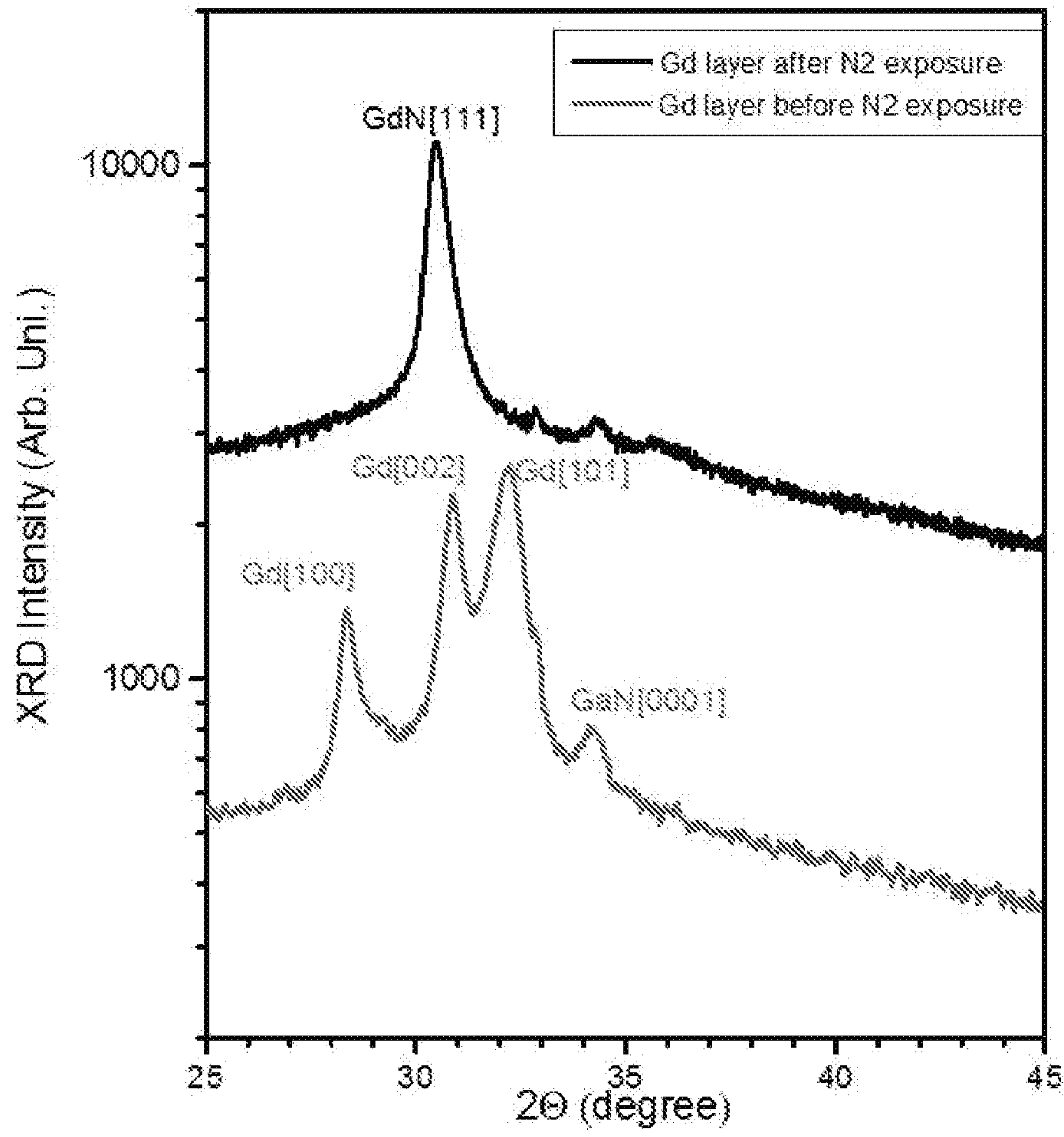


Figure 4

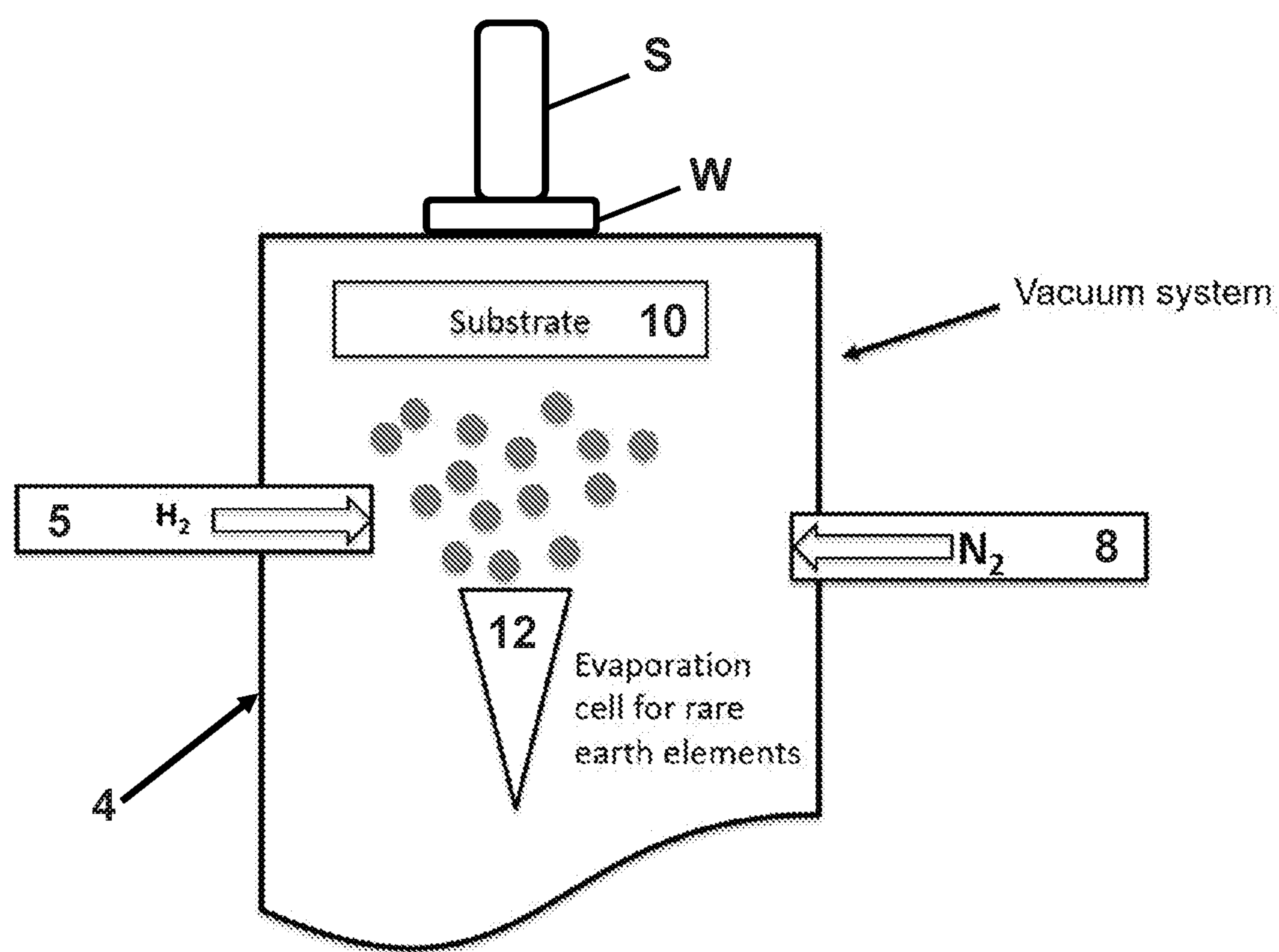


Figure 5

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16

Rare earth nitride	2
Substrate	10

Figure 6A

16

Capping	14
Rare earth nitride	2
AlN	20
Silicon substrate	18

T

Figure 6B

16

Rare earth nitride	2
Non-rare earth nitride	22
Rare earth nitride	2
Template T or substrate or 10	

Figure 6C

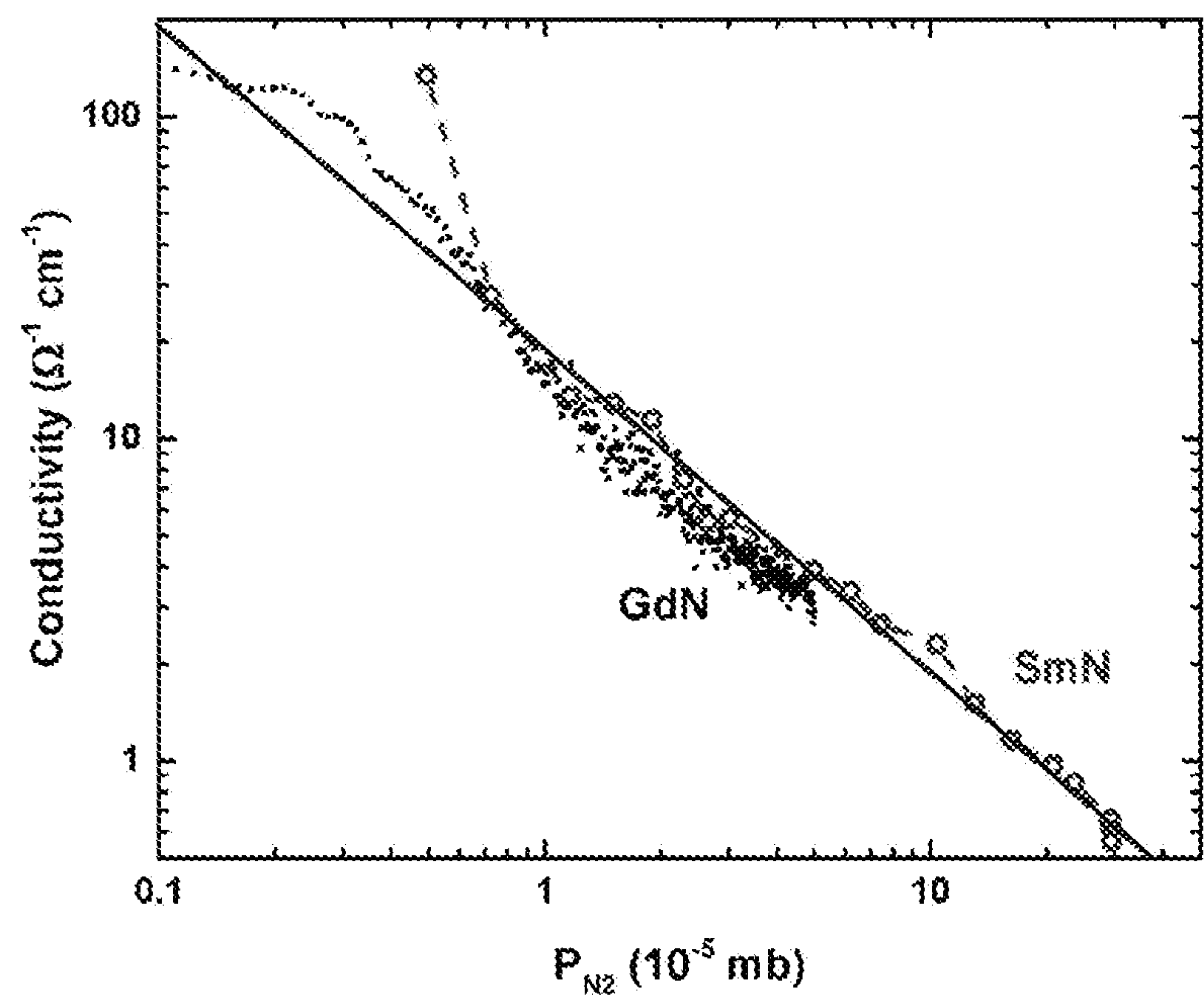


Figure 7

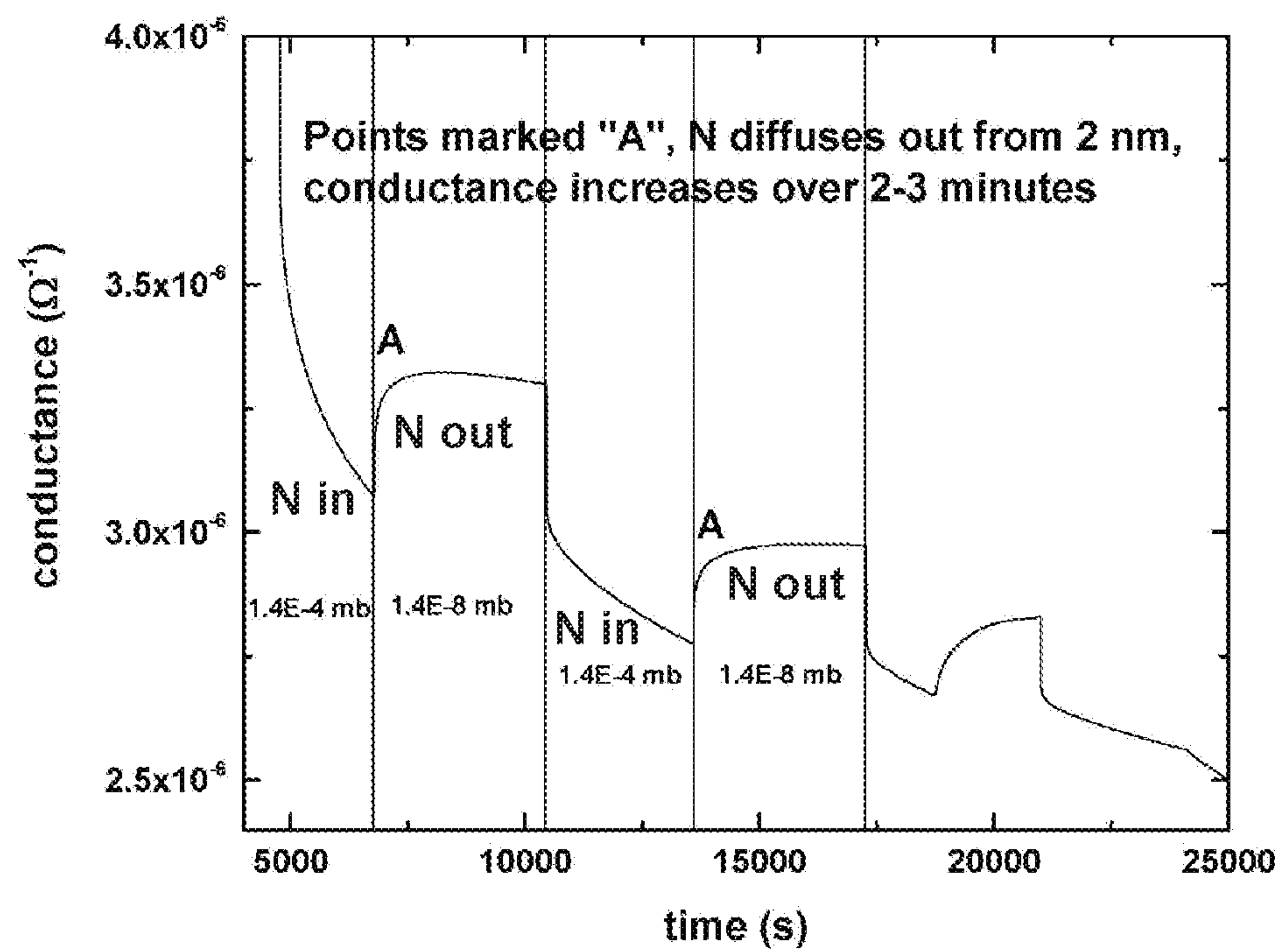


Figure 8

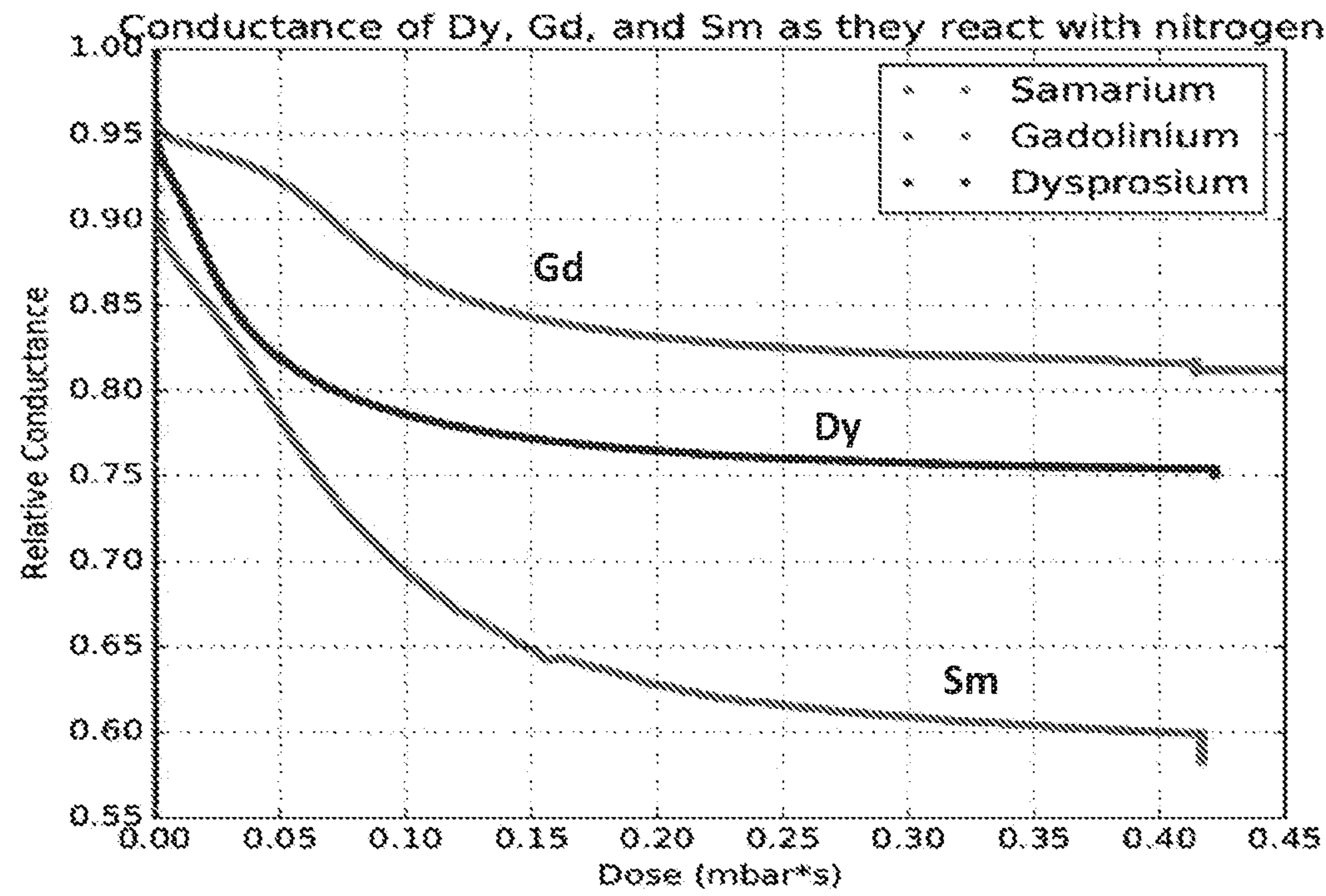


Figure 9