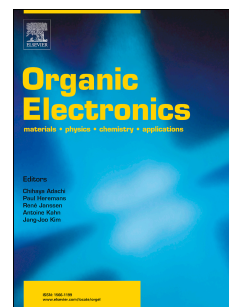


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Soft computing techniques in prediction gas sensor based 2D material

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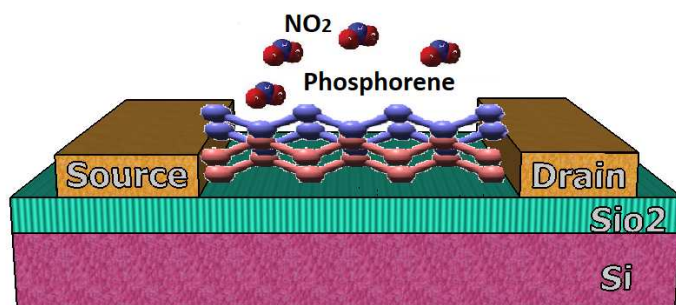
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**Figure 2.** Schematic of FET based sensor

The Sensing mechanism in FET- based phosphorene sensor is based on the change of conductance of the channel upon exposure to  $\text{NO}_2$  gas. When sensor is upon  $\text{NO}_2$  exposure, gas molecules adsorb on the phosphorene surface and change the initial conductance of the device.

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