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AREA OF RESEARCH - Gas sensing, TMDc materials

SUMMARY- Two-dimensional (2D) transition metal dichalcogenides (TMDc) materials are looked upon because of their unique chemical and physical properties. They have demonstrated promising potential for gas sensing devices because of their large surface-to-volume ratio, high surface sensitivity, and excellent semiconducting properties. Finally, as summary, the prospects of these two-dimensional transition metal dichalcogenides have been outlined for the development of highly efficient future generation gas sensors for accelerating the commercialization of the same.