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# Efficiency of silicon production from quartz within argon gas-plasma flow with hydrogen additive

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*The paper presents the results of the theoretical investigations on the direct method for silicon production from quartz. Criteria for successful implementation of the method were determined. The authors explored the possibility of reaching a yield of silicon up to 90 %.*

**Keywords:** *thermophysical processes, polycrystalline silicon, plasma torches, silicon oxides.*

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