7. Heating element (10) according to any of claims 4 to 6, characterized in that the open pores (32) have a projection area that extends over less than 70% of the surface area of the heating body (20) covered by the porous sintered coating (30).

8. Heating element (10) according to any of claims 4 to 7, characterized in that the open pores (32) have a projection area that extends over less than 60% of the surface area of the heating body (20) covered by the porous sintered coating (30).

9. Heating element (10) according to any of claims 1 to 8, characterized in that the porous sintered coating (30) is made of technical pure tungsten.

10. Heating element (10) according to any of claims 1 to 9, characterized in that the heating body (20) is at least partly curved within a single flat plane.

11. Heating element (10) according to any of claims 1 to 10, characterized in that the emissivity of the porous sintered coating (30) is greater than or equal to 0.5.

12. Reactor comprising a chamber; a susceptor onto which one or more wafers are mounted; and the heating element (10) according to any of claims 1 to 11.

13. Method for manufacturing a heating element (10) according to any one of claims 1 to 11, comprising the following steps:

- Providing a heating body (20) extending substantially within a single plane and which is made of a material comprising at least 90 % by weight of tungsten;
- Applying at least partly on a surface of the heating body a suspension comprising particles of a material which is at least 90 % by weight of tungsten; and