CLAIMS

1. A method for producing a filter, comprising:

a relation derivation step of deriving, for each filter medium, a relation between concentration of an organic solvent in an organic solvent/water system contained in a catalyst slurry and loading amount of a catalyst loaded on the filter medium when the catalyst slurry is applied to the filter medium;

a concentration determination step of determining a concentration of the organic solvent from a target loading amount to be loaded on the filter medium on the basis of the relation derived in the relation derivation step;

a slurry production step of producing the catalyst slurry containing the organic solvent at a concentration that is equal to or higher than the concentration determined in the concentration determination step; and

a slurry application step of applying the catalyst slurry produced in the slurry production step to the filter medium.

2. The method for producing a filter according to claim 1,

wherein a surface tension of the organic solvent is 50 mN/m or less.

3. The method for producing a filter according to claim 1 or 2,

wherein the target loading amount is a finished loading amount at the completion of the filter, and the number of times the catalyst slurry is applied in the slurry application step is once.

4. The method for producing a filter according to claim 1 or 2,

wherein the target loading amount is less than a finished loading amount at the completion of the filter, and the number of times the catalyst slurry is applied in the slurry application step is at least two or more times.

5. The method for producing a filter according to any one of claims 1 to 4,

wherein the slurry application step includes spraying the catalyst slurry to the filter medium by a spray nozzle.

6. The method for producing a filter according to any one of claims 1 to 5,

wherein, in the relation, the filter medium is specified by a tilting angle of a solid sample at which a liquid dripped onto the solid sample begins to slide when the liquid is dripped onto the solid sample placed horizontally and the solid sample is gradually tilted.

7. A filter, comprising

a filter medium specified by a tilting angle of a solid sample of 5° or more and 25° or less at which a water droplet on the solid sample begins to slide when 120 μl of the water droplet is dripped onto the solid sample placed horizontally and the solid sample is gradually tilted; and

a catalyst loaded on the filter medium at a finished loading amount at the completion of 100 $g/m^2$ or more.