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(54) Title: ZEOLITE SYNTHESIS IN A CONTINUOUS FLOW REACTOR WITH A PULSATILE FLOW REGIME

(57) Abstract: The present invention relates to a continuous process for the preparation of a zeolitic material comprising SiO₂ in its framework structure, said process comprising (i) continuously preparing a mixture comprising one or more solvents, one or more structure directing agents, and one or more sources of SiO₂; (ii) continuously feeding the mixture prepared in (i) into one or more continuous flow reactors; and (iii) heating the mixture in the one or more continuous flow reactors for continuously obtaining a zeolitic material comprising SiO₂ in its framework structure; wherein the mixture contained in the one or more continuous flow reactors is subject to a pulsatile flow regime. The present invention also relates to a zeolitic material as obtainable and/or obtained according to said process and the use of the zeolitic material as a molecular sieve, as an adsorbent, for ion-exchange, or as a catalyst and/or as a catalyst support.



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