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(71) Applicants: AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH [SG/SG]; 1 Fusionopolis Way, #20-10 Connexis North Tower, Singapore 138632 (SG). UNIVERSITY COLLEGE LONDON [GB/GB]; Gower Street, London WC1E 6BT (GB).

(72) Inventors: LIM, Yee Fun; c/o Institute of Materials Research and Engineering, 2 Fusionopolis Way, #08-03, Innovis, Singapore 138634 (SG). GOH, Gregory Kia Liang; c/o Institute of Materials Research and Engineering, 2 Fusionopolis Way, #08-03, Innovis, Singapore 138634 (SG). CHAPMAN-FORTUNE, John; c/o University College London, Gower Street, London WC1E 6BT (GB).

(74) Agent: VIERING, JENTSCHURA & PARTNER LLP; P.O. Box 1088, Rochor Post Office, Rochor Road, Singapore 911833 (SG).

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(54) Title: METHOD FOR SOLUTION COATING OF INORGANIC SUPERHYDROPHILIC THIN FILM

(57) Abstract: Herein disclosed is a method of producing a silica-based superhydrophilic film. The method includes providing a coating formulation including an alkali metal silicate having a substantial portion of water removed therefrom, wherein the alkali metal silicate has a formula of $M_2O \cdot nSiO_2$, wherein M represents an alkali metal and n is a positive real number greater than zero, mixing the coating formulation and an alcohol including a curing agent, wherein the curing agent includes an acid or an alkaline earth metal halide, and drying the coating formulation to form the silica-based superhydrophilic film. A silica-based superhydrophilic film produced according to the method is also described herein, wherein the silica-based superhydrophilic film includes an amine stabilizer.