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(54) Title: DISPERSIONS

(57) Abstract: A method of forming a liquid dispersion of 2D material/graphitic nanoplatelets in an aqueous solution is disclosed. The method comprises the steps of (1) creating a dispersing medium; (2) mixing the 2D material/graphitic nanoplatelets into the dispersing medium; and (3) subjecting the 2D material/graphitic nanoplatelets to sufficient shear forces and/or crushing forces to reduce the particle size of the 2D material/graphitic nanoplatelets using a mechanical means. The liquid dispersion comprises the 2D material/graphitic nanoplatelets, at least one grinding media, water, and at least one wetting agent, and that the at least one grinding media is 10 water soluble or functionalised to be water soluble.



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