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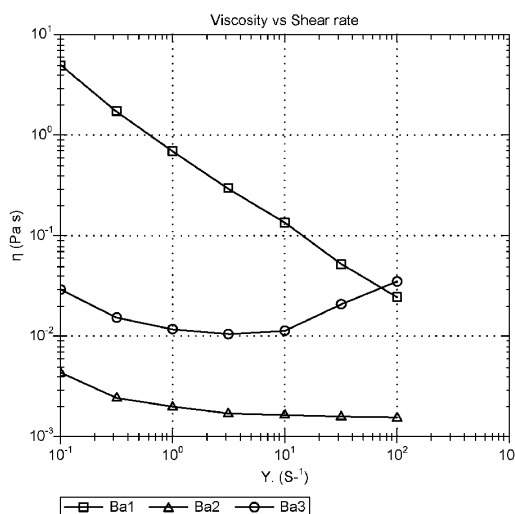


FIG. 1

(57) Abstract: A method of forming a liquid dispersion of 2D material/graphitic nanoplatelets 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. The liquid dispersion comprises the 2D material/graphitic nanoplatelets, at least one grinding media, and at least one non-aqueous solvent.

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