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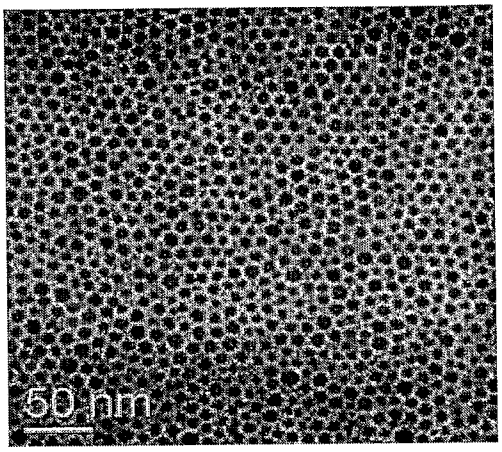
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(54) **Title:** METHOD OF PREPARING NANO-STRUCTURED MATERIAL(S) AND USES THEREOF



(57) **Abstract:** The present invention provides a method of preparing at least one nano- structured material of formula $M_1M_2X_n$ comprising the step of treating: at least one compound having the formula $[CX_3(CX_2)_n(CH_2)_mCOO]_pM_1$; and at least one compound having the formula $[CX_3(CX_2)_n(CH_2)_mCOO]_pM_2$; wherein each X is the same or different and is selected from the group consisting of : halogens, O, S, Se, Te, N, P and As ; each n is the same or different and is $0 \leq n \leq 10$; each m is the same or different and is $0 \leq m \leq 10$; each p is the same or different and is $1 \leq p \leq 5$; each M_1 is the same or different and is selected from the group consisting of: Li, Na, K, Rb, Cs, Fr, Be, Mg, Ca, Sr, Ba, Ra and NH_4 ; each M_2 is the same or different and is a metal ion. The present invention also provides uses of the nano-structured material prepared according to the method of the present invention.

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