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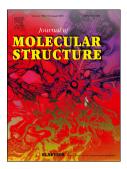
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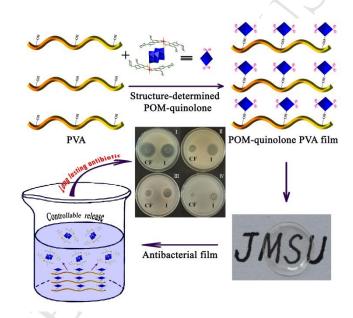
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Polyoxometalate coordination induced controllable release of quinolone in hybrid film

Fan Yang $^{a\,\ddagger}$, Yang Li $^{a\,\ddagger}$, Yu-Guang Lv a , Si Li a , Shu-Jing Zhou $^a\,^*$, Guang-Gang Gao a and Hong Liu $^{a^*}$

The vanadium-quinolone functionalized polymolybdates of $(NH_4)_2[(\gamma-Mo_8O_{26})\{VO(CF)_2\}_2]$ (1) and $(NH_4)_2[(\gamma-Mo_8O_{26})\{VO(NF)_2\}_2]$ (2) (CF = ciprofloxacin; NF = norfloxacin) are firstly demonstrated. When complex 1 or 2 is transferred into PVA film, it shows lower release rate in solution than that of CF- or NF-PVA film, it opens a new way to realize the controllable release of antibacterial drugs at molecular level.

Keywords: Polyoxometalates, Quinolone, Controllable release, Polyvinyl alcohol, Antibacterial film



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