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**New hydroxyapatite-hydrotalcite composites l. synthesi**

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Ab ·tracl Thc ..ynthe:i.. and charal'ICriLallon n{ origillal malerial . ·()nlpu. cú by hydrolakilc and h)uro . apatilc I'i discu.. ~d. AlIlhc \ynlhe es were \.arricd uut In prc<.cncl" 01 micl \\ a"t: irraui'llion uuring \h.· U") lal lil:llic)n !'.tcp The Imer luion. h<:twcen lhe l'v\O compound. Jepend un lhe ~jllth",i\ prllcedurc. Ir h)drox)apatjtt' I im:orporalCu lO hyurot¡lk lle. lhe nr 1 lOmpoulH.I i, t:ncapsulatcd by hy Ur<lWll:lI In leal.!, ir hydroxyapülllc t, fir~l prepllrcd. lhe rc ..ulllng. oltd i~ e"cnliall. a hydrolal IIC \\ ilh inlcrlaycred hyd o:-.yapalilc. 1,; hen lhe l:On PO\iIC mal nal i .. ~ nlhc *si/cd* b)-a \imullanCl)lJ~ 'oprel'ipilati )n. Ihemall clu ..ler.. uf hyum yapalile and hyur0wlcllc an: h mogene IU. I~ di . rt!r~ d. Consequenlly. Ihe spcc ifi c: urfa 'c a("(.!;¡ and lhe p.lrticle *'>!LX* v<lry .

Key word lI ydrotalcile · Hyu ro . apu tlte · 'omposllc · Ilerowa\' irradialion · Biomatcrial · alal~ , l B nc