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Synthesis of Multinuclear Lanthanoid Complexes with 2-Methyl-8-hydroxyquinoline

Lanthanoid-8-quinolinolates and its derivatives have attracted a lot of interest due to their structures and behaviour as single molecular magnets [1-3]. A few multinuclear of lanthanoid complexes with 2-methyl-8-hydroxyquinoline (HMQ) were successfully synthesized at elevated temperature using a Teflon Sealed autoclave. It was observed that heating the mixture above the boiling point of the solvent produces dinuclear, trinuclear and tetranuclear compounds as products.

[1] Deacon, G. B., Dierkes, T., Hubner, M., Junk, P. C., Lorenz, Y., and Urbatsch, A., Eur. J. Inorg. Chem., 4338–4348, 2011.

[2] Deacon, G. B., Forsyth, C. M., Junk, P. C., and Urbatsch, A., Eur. J. Inorg. Chem., vol. 2010, 18, 2787–2797, 2010.

[3] Chilton, N. F., Deacon, G. B., Gazukin, O., Junk, P. C., Berthold, K., Langley, S. K., Moubaraki, B., Keith S. M., Frederik, S., Shome, M., Turner, D. R., Inorg. Chem, 53, 2528–2534, 2014

[enter link description here] <https://www.dropbox.com/s/g122j9lxa9kx84s/SYNCHROTRON.docx?dl=0>

Keywords or phrases (comma separated)

Are you a student?

Yes

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No

Are you an ECR? (<5 yrs since PhD/Masters)

What is your gender?

Female

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