Substitution of gadolinium ethylenediaminetetraacetate with phosphites: Towards gadolinium deposit in nephrogenic nystemic fibrosis

Song Gao, Mao-Long Chen, Zhao-Hui Zhou*

State Key Laboratory of Physical Chemistry of Solid Surfaces, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen, 361005, China, Fax: +86 592 2183047; Tel: +86 592 2184531; E-mail: zhzhou@xmu.edu.cn

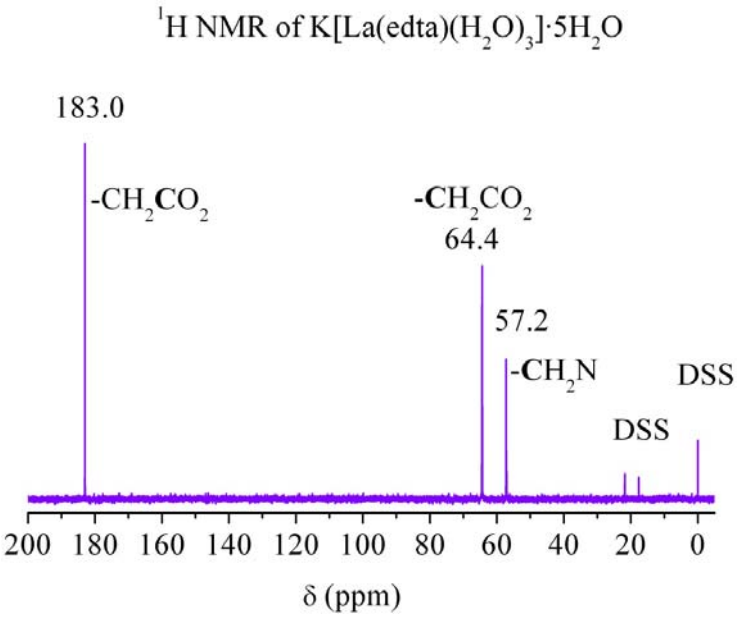

Fig. S1 Solution ^{13}C NMR spectrum of K[La(edta)(H$_2$O)$_3$]·5H$_2$O

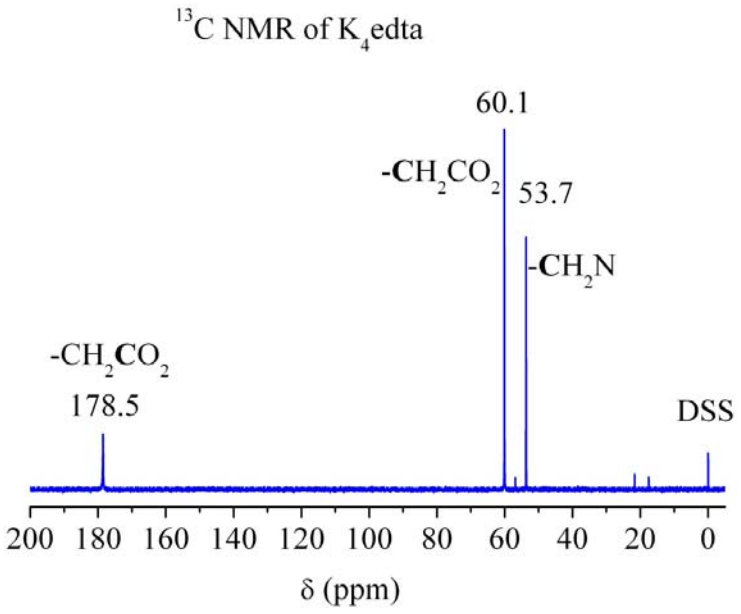

Fig. S2 Solution ^{13}C NMR spectrum of K$_4$edta

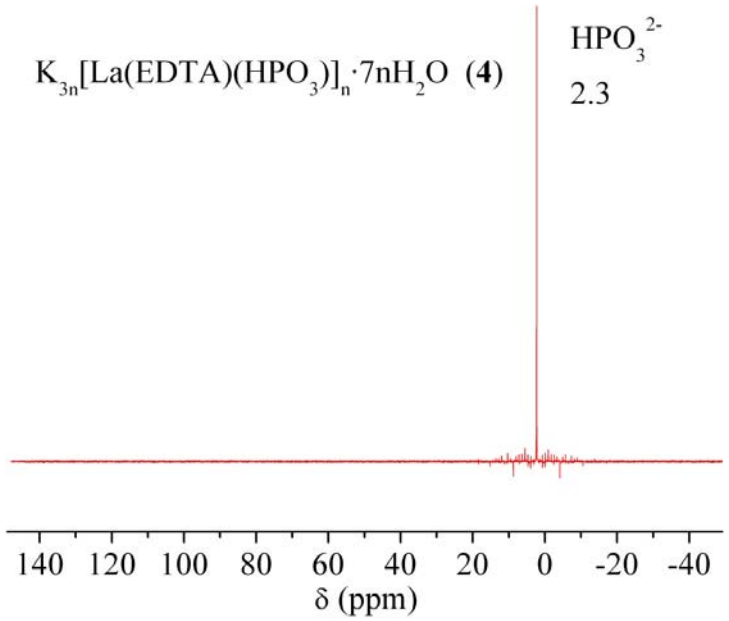

Fig. S3 Solution ^{31}P NMR spectrum of $K_{3n}[La(EDTA)(HPO_3)]_n \cdot 7nH_2O$ (**4**)

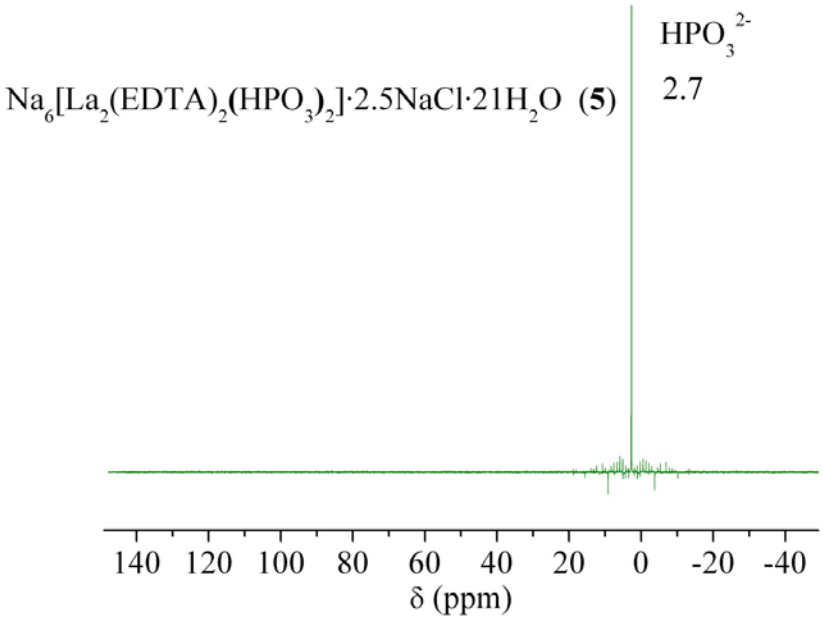

Fig. S4 Solution ^{31}P NMR spectrum of $Na_6[La_2(EDTA)_2(HPO_3)_2] \cdot 2.5NaCl \cdot 21H_2O$ (**5**)

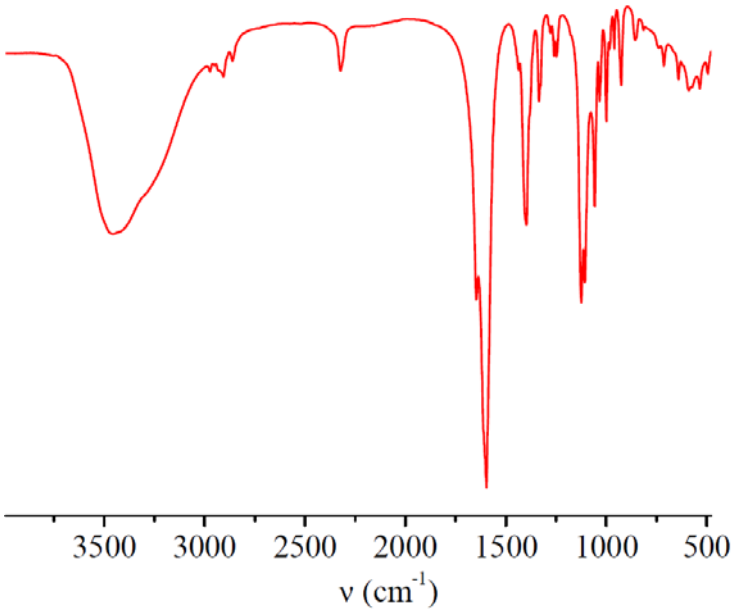

Fig. S5 IR spectrum of $K_{3n}[Gd(EDTA)(HPO_3)]_n \cdot 7nH_2O$ (**1**)

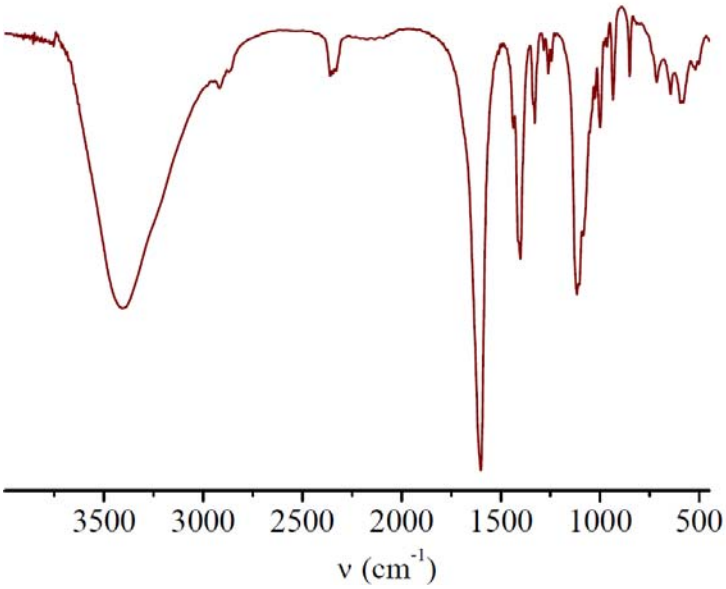

Fig. S6 IR spectrum of $Na_6[Gd_2(EDTA)_2(HPO_3)_2] \cdot 2.5NaCl \cdot 21H_2O$ (**2**)

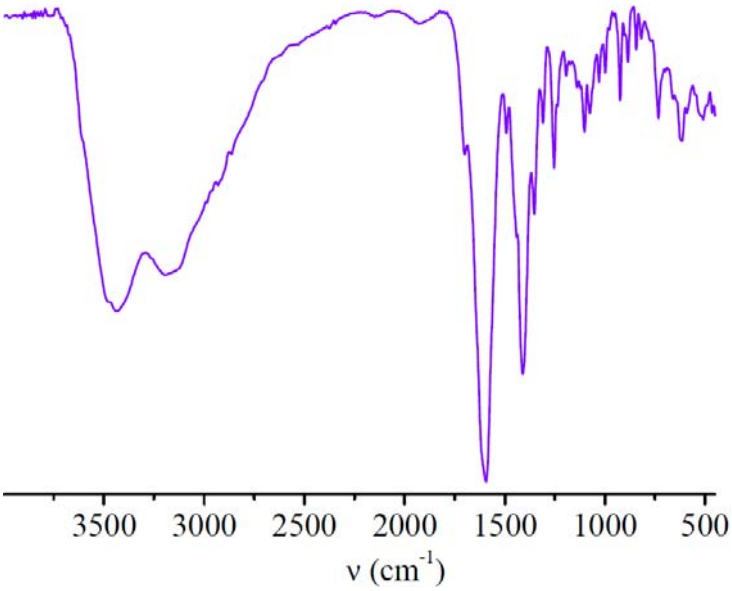

Fig. S7 IR spectrum of $(NH_4)_2Na[Gd(EDTA)(H_2cit)]\cdot 4H_2O$ (**3**)

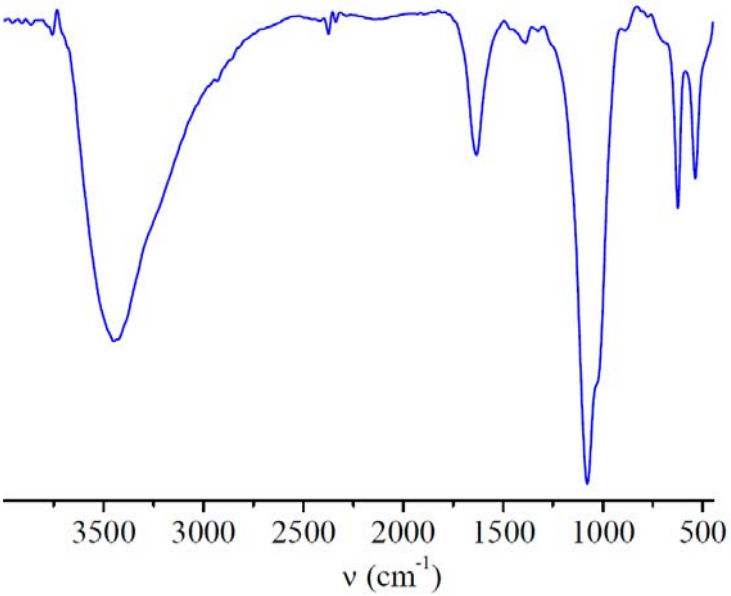

Fig. S8 IR spectrum of gadolinium phosphate

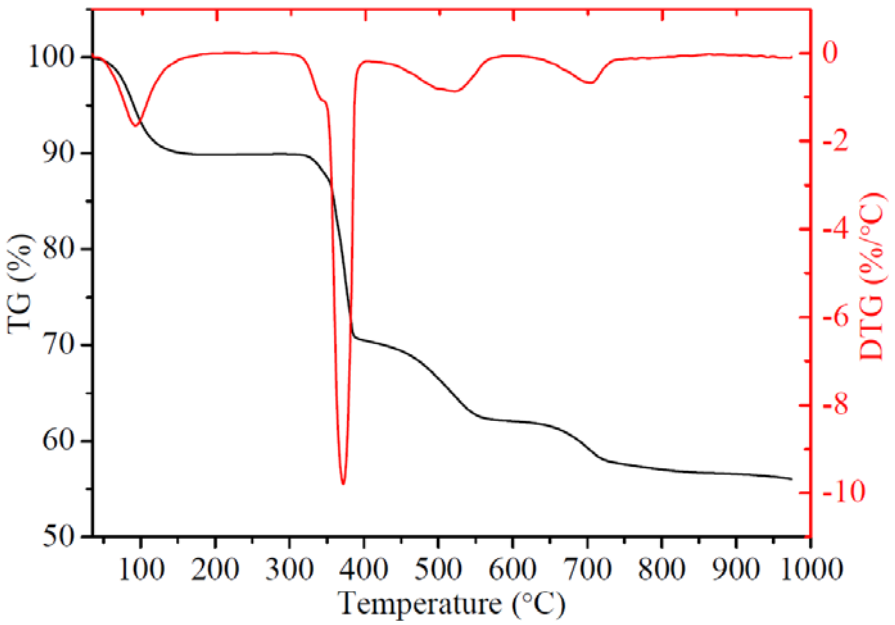

Fig. S9 TG-DTG curve of $K_{3n}[Gd(EDTA)(HPO_3)]_n \cdot 7nH_2O$ (**1**)

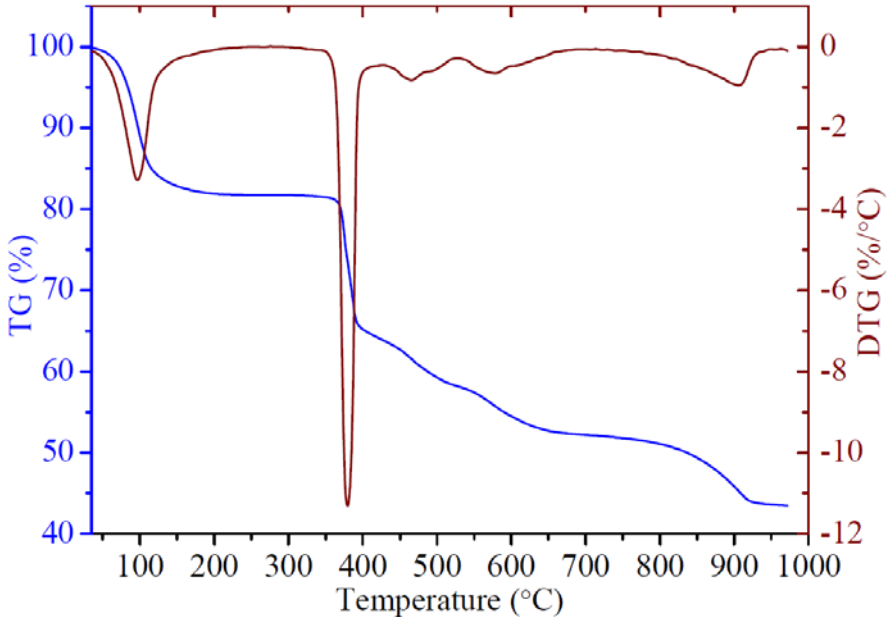

Fig. S10 TG-DTG curve of $Na_6[Gd_2(EDTA)_2(HPO_3)_2] \cdot 2.5NaCl \cdot 21H_2O$ (**2**)