

Electronic Supplementary Information associated with the article: Degli Esposti Lorenzo, Marković Smilja, Ignjatović Nenad, Panseri Silvia, Montesi Monica, Adamiano Alessio, Fosca Marco, Rau Julietta V., Uskoković Vuk, Iafisco Michele, "Thermal crystallization of amorphous calcium phosphate combined with citrate and fluoride doping: a novel route to produce hydroxyapatite bioceramics." *Journal of Materials Chemistry B*, 9, no. 24 (2021):4832-4845, <https://doi.org/10.1039/D1TB00601K>.



This work is licensed under the [Creative Commons - Attribution 4.0 International \(CC BY 4.0\) license](https://creativecommons.org/licenses/by/4.0/)

# Electronic Supplementary Information

## Thermal crystallization of amorphous calcium phosphate combined with citrate and fluoride doping: a novel route to produce hydroxyapatite bioceramics

*Lorenzo Degli Esposti,<sup>\*a</sup> Smilja Markovic,<sup>b</sup> Nenad Ignjatovic,<sup>b</sup> Silvia Panseri,<sup>a</sup> Monica Montesi,<sup>a</sup> Alessio Adamiano,<sup>a</sup> Marco Fosca,<sup>c</sup> Julietta V. Rau,<sup>c,d</sup> Vuk Uskoković,<sup>e</sup> and Michele Iafisco<sup>\*a</sup>*

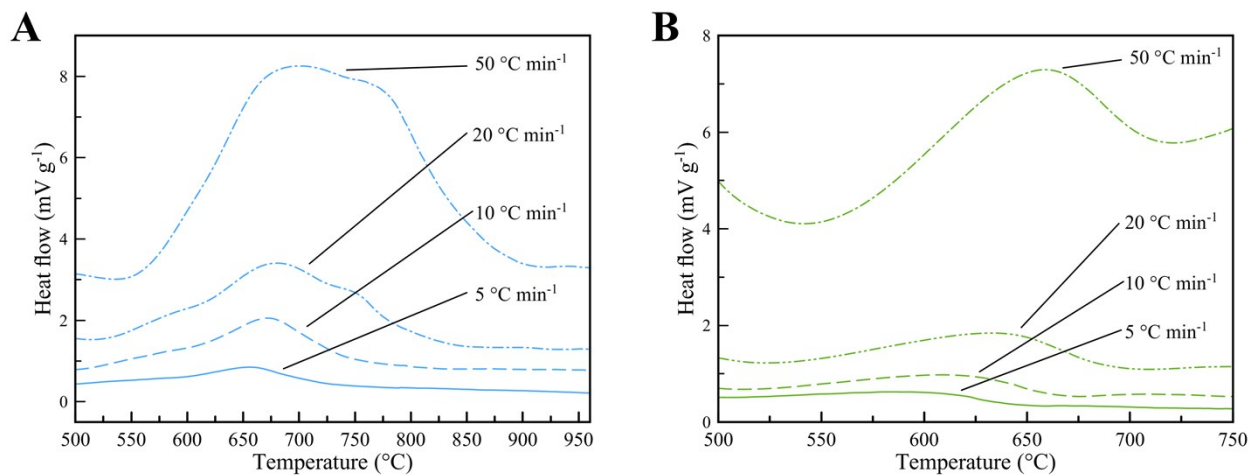
<sup>a</sup>Institute of Science and Technology for Ceramics (ISTEC), National Research Council (CNR), Via Granarolo 64, 48018 Faenza (Italy). E-mail: [lorenzo.degliesposti@istec.cnr.it](mailto:lorenzo.degliesposti@istec.cnr.it), [michele.iafisco@istec.cnr.it](mailto:michele.iafisco@istec.cnr.it)

<sup>b</sup>Institute of Technical Sciences of the Serbian Academy of Science and Arts, Knez Mihailova 35/IV, P.O. Box 377, 11000 Belgrade, Serbia.

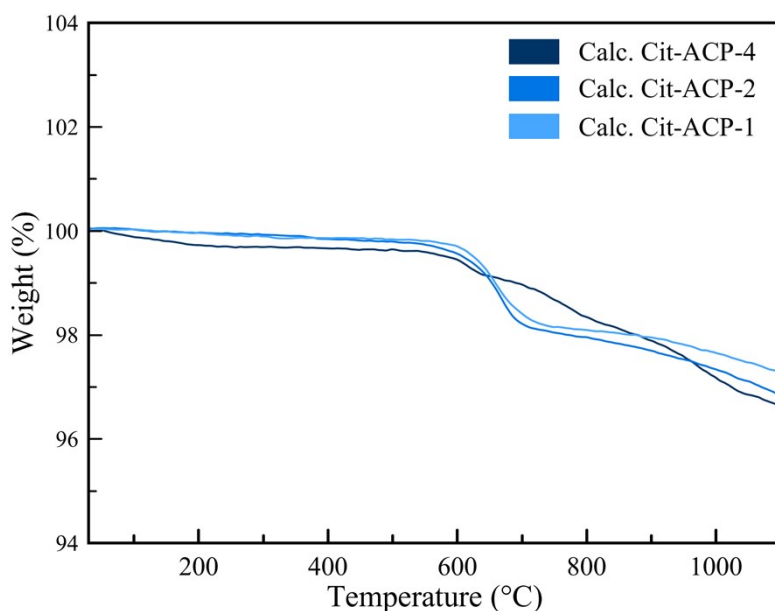
<sup>c</sup>Institute of Structure of Matter (ISM), National Research Council (CNR), Via del Fosso del Cavaliere 100, 00133 Rome (Italy).

<sup>d</sup>Sechenov First Moscow State Medical University, Institute of Pharmacy, Department of Analytical, Physical and Colloid Chemistry, Trubetskaya 8, build. 2, 119991 Moscow, Russia.

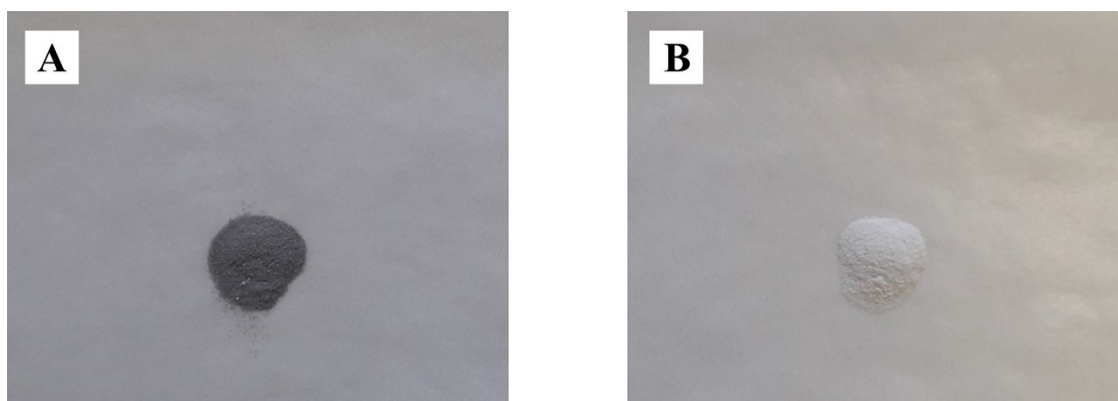
<sup>e</sup>TardigradeNano LLC, Irvine, CA 92604, USA.



**Figure S1.** The shift in the crystallization peak for (A) Cit-ACP-1 and (B) Cit-FACP-1 to higher temperatures in direct proportion with the heating rate.



**Figure S2.** TGA curves of calcined Cit-ACP-4, Cit-ACP-2, and Cit-ACP-1.



**Figure S3.** Pictures of calcined (A) Cit-ACP-4 and (B) Cit-ACP-1.