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<u>Supplementary Information</u>

Figure A: Structural diagram of part of the structure of C3A (tricalcium aluminate, $Ca_3Al_2O_6$) illustrating the coordination of calcium (blue) to oxygen (green), and aluminium (red) to oxygen (Figure produced using the crystal structure drawing package VESTA (Copyright (C) 2006-2018, Koichi Momma and Fujio Izumi))

