

Supplementary Information

Figure A: Structural diagram of part of the structure of C3A (tricalcium aluminate,  $\text{Ca}_3\text{Al}_2\text{O}_6$ ) 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))

