Erratum: Theoretical study of the structure of calcium in phases IV and V via *ab initio* metadynamics simulation [Phys. Rev. B 77, 020101(R) (2008)]

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In page 020101-4 of our paper, we mentioned the space group of our structure Ca-IV and wrote that the space group of the structure of Ca-IV is identified to be $P4_3$ (No.78:C_4^4). But the space group of the structure of Ca-IV can also be identified to be $P4_32_12$ (No.96:D_4^8) whose positions are (8b) sites. The parameters of the sites at 120 GPa are $x=0.32$, $y=0.01$, and $z=-0.345$ with lattice parameters $a=3.14$ Å, and $c=9.11$ Å. Since the space group $P4_32_12$ has more symmetry operations than the $P4_3$, the space group $P4_32_12$ should rather be assigned to the structure of Ca-IV. We confirmed our structure to be of space group $P4_32_12$ after receiving the space group name $P4_32_12$ and its experimental structure data from Dr. Hiroshi Fujihisa, Dr. Yuki Nakamoto, and Dr. Katsuya Shimizu. We appreciate their courtesy in disclosing their experimental data[1] prior to their publication. This correction does not affect the other parts of the paper.

[1] Hiroshi Fujihisa, Yuki Nakamoto, Katsuya Shimizu, Takahiro Yabuuchi, and Yoshito Gotoh (unpublished).

