

# SCIENTIFIC REPORTS

## OPEN **Erratum: Condensed-matter equation of states covering a wide region of pressure studied experimentally**

Elijah E. Gordon, Jürgen Köhler & Myung-Hwan Whangbo

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The original version of this Article contained typographical errors.

In the Abstract,

“Here we show that the simple empirical EOS,  $P = \alpha^1(PV) + \alpha^2(PV)^2 + \alpha^3(PV)^3$ , in which the pressure  $P$  is indirectly related to the volume  $V$  through a cubic polynomial of the energy term  $PV$  with three fitting parameters  $\alpha^1 - \alpha^3$ , provides accurate descriptions for the  $P$ -vs- $V$  data of condensed matter in a wide region of pressure studied experimentally even in the presence of phase transitions”.

now reads:

“Here we show that the simple empirical EOS,  $P = \alpha_1(PV) + \alpha_2(PV)^2 + \alpha_3(PV)^3$ , in which the pressure  $P$  is indirectly related to the volume  $V$  through a cubic polynomial of the energy term  $PV$  with three fitting parameters  $\alpha_1 - \alpha_3$ , provides accurate descriptions for the  $P$ -vs- $V$  data of condensed matter in a wide region of pressure studied experimentally even in the presence of phase transitions”.

In the Results section under subheading ‘Applicability to other condensed matter’,

“To establish this point, we examine the experimental  $P$ -vs- $V$  data for various solid-state condensed matter listed in Table 1, which include the elemental Sn, the transition-metals Au and Cu, the alkali halides LiF, NaF, NaCl and CsCl, ice VII, the oxides MgO and MgSiO<sub>3</sub>, the noble gases Ar, Kr and Xe, as well as molecular hydrogen H<sub>2</sub>D<sub>2</sub>”.

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These errors have now been corrected in the PDF and HTML versions of the Article.



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