



Cite this: *Phys. Chem. Chem. Phys.*, 2022, **24**, 24593

## Correction: Critical size effect for the surface heat capacities of nano-CdS: theoretical and experimental studies

Shengjiang Zhang,<sup>a</sup> Xiuniang Tan,<sup>a</sup> Yan Zhou,<sup>a</sup> Jinyang Liu,<sup>a</sup> Xiangyao Liang,<sup>a</sup> Xuehuan Ding,<sup>a</sup> Guangmiao Lyu,<sup>a</sup> Ying Wei,<sup>a</sup> Junxin Chen,<sup>a</sup> Yidan Mao,<sup>a</sup> Jinmei Wu,<sup>a</sup> Yushan Huang,<sup>a</sup> Yusen Huang,<sup>a</sup> Xuecai Tan<sup>\*abc</sup> and Zaiyin Huang<sup>\*abc</sup>

DOI: 10.1039/d2cp90177c

[rsc.li/pccp](https://rsc.li/pccp)

Correction for 'Critical size effect for the surface heat capacities of nano-CdS: theoretical and experimental studies' by Shengjiang Zhang et al., *Phys. Chem. Chem. Phys.*, 2022, **24**, 6193–6207, <https://doi.org/10.1039/D1CP04619E>.

The published article contains errors in eqn (11) and (12) and incorrect figure captions for Fig. 2 and 3.

(1) In Section 2.2.2 "Relationships between molar surface thermodynamic and partial molar surface thermodynamic properties and particle size", the correct equations for (11) and (12) should read:

$$S_m^s = \left( \frac{\partial S^s}{\partial n} \right)_p = -\frac{3M}{r\rho} \left[ \left( \frac{\partial \sigma}{\partial T} \right)_p + \frac{2\sigma\alpha}{3} \right] \quad (11)$$

$$S_{NP}^s = \left( \frac{\partial S^s}{\partial n} \right)_p = -\frac{2M}{r\rho} \left[ \left( \frac{\partial \sigma}{\partial T} \right)_p + \frac{2\sigma\alpha}{3} \right] \quad (12)$$

(2) In Section 3.2 "Preparation and characterization of nano-CdS", the correct captions for Fig. 2 and 3 are given below:

"Fig. 2 TEM images of nano-CdS with different particle sizes: (a) 7.2 nm, (b) 8.1 nm, (c) 15.1 nm, (d) 16.9 nm, (e) 18.6 nm."

"Fig. 3 Particle size distribution statistical histograms of nano-CdS: (a) 7.2 nm, (b) 8.1 nm, (c) 15.1 nm, (d) 16.9 nm, (e) 18.6 nm."

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

<sup>a</sup> School of Chemistry and Chemical Engineering, Guangxi University for Nationalities, Guangxi Colleges and Universities, Nanning 530008, China.  
 E-mail: [gxunxctan@126.com](mailto:gxunxctan@126.com), [huangzaiyin@163.com](mailto:huangzaiyin@163.com)

<sup>b</sup> Key Laboratory of Food Safety and Pharmaceutical Analytical Chemistry, Key Laboratory of Forest Chemistry and Engineering, Nanning 530008, China

<sup>c</sup> Key Laboratory of Forest Chemistry and Engineering, Guangxi University for Nationalities, Nanning 530008, P. R. China

