

CORRIGENDUM

Corrigendum: Green synthesis of  $Mn_xZn_{(1-x)}O$  nanostructure using *Azadirachta indica* leaf extract and its microstructural and optical study (2022 *Phys. Scr.* [97 045002](#))

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Corrigendum: Green synthesis of  $\text{Mn}_x\text{Zn}_{(1-x)}\text{O}$  nanostructure using *Azadirachta indica* leaf extract and its microstructural and optical study (2022 *Phys. Scr.* **97** 045002)RECEIVED  
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20 June 2022Subhodeep Barman<sup>1,2</sup> , Suranjan Sikdar<sup>3</sup> , Abhijit Biswas<sup>4</sup> , Anikul Islam<sup>3</sup> and Rahul Das<sup>1</sup> <sup>1</sup> Department of Physics, University of Burdwan, Golapbag, West Bengal 713104, India<sup>2</sup> Department of Physics, Gangarampur College, Dakshin Dinajpur, West Bengal 733124, India<sup>3</sup> Department of Chemistry, Govt. General Degree College, Kushmandi, Dakshin Dinajpur, West Bengal 733121, India<sup>4</sup> Department of Physics and Centre for Energy Science, IISER Pune, Maharashtra 411008, IndiaE-mail: [rdas@phys.buruniv.ac.in](mailto:rdas@phys.buruniv.ac.in)

1. On page 5, the formula ' $\beta_s \approx \varepsilon/\tan \theta$ ' would be replaced by the formula ' $\beta_s \approx \varepsilon \tan \theta$ '. The slash symbol between the epsilon ( $\varepsilon$ ) and  $\tan \theta$  would be removed.
2. Equation (3) should read as follows. In the published article, the lambda ( $\lambda$ ) is missing in the right-handed first term. The equation would take the form as follows.

$$\beta_{hkl} \cos \theta = \left( \frac{k\lambda}{D} \right) + 4\varepsilon \sin \theta$$

3. Equation (4) should read as follows. In the published article, the lambda ( $\lambda$ ) in the first part of the right-handed term and the sigma ( $\sigma$ ) in the second part are missing.

$$\beta_{hkl} \cos \theta = \left( \frac{k\lambda}{D} \right) + \left( \frac{4\sigma \sin \theta}{Y_{hkl}} \right)$$

4. On page 6, in the last line 'Energy can be calculated using the relationship  $U = \frac{1}{2}\varepsilon Y_{hkl}$ , for any elastic system' would be replaced by 'Energy density can be calculated using the relationship  $U = \frac{1}{2}\varepsilon^2 Y_{hkl}$ , for any elastic system'.
5. Equation (6) is missing the lambda ( $\lambda$ ) symbol in the published article and the equation should read as follows.

$$\beta_{hkl} \cos \theta = \left( \frac{k\lambda}{D} \right) + (4 \sin \theta) \left( \frac{2U}{Y_{hkl}} \right)^{\frac{1}{2}}$$

6. In equation (7), the ' $t$ ' in the exponential part should be replaced with the complex number ' $i$ ' and the final equation will take the form as follows

$$\rho(x, y, z) = \frac{1}{V} \sum_{hkl} |F_{(hkl)}| \exp[-2\pi i(hx + ky + lz - \alpha_{hkl})]$$

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### **Data availability statement**

No new data were created or analyzed in this study.